

1997-1998 Undergraduate Catalog



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University Calendar

Fall Semester, 1997

Registration	September 2
Classes begin	September 3
Thanksgiving recess begins at end of night classes	November 25
Classes resume (8:00 a.m.)	December 1
Reading Day	December 13
Final exams	December 15-23
December Commencement	December 21

Spring Semester, 1998

Registration	January 19
Classes begin	January 20
Spring vacation begins	March 9-15
Classes resume (8:00 a.m.)	March 16
Reading Day	May 5
Final exams	May 6-May 14
May Commencement	May 16

Summer Sessions, 1998

To be announced

Inclement Weather Policy

Indiana University of Pennsylvania is committed to the safety and security of its students, faculty, staff, and visitors. As such, the decision whether the university should close or remain open during periods of adverse weather conditions is based on the overall concern for the university community. In general, however, IUP's practice will be to remain open and to conduct classes and business as usual during periods of inclement weather.

Closure of the University: Should adverse weather conditions arise or be anticipated that would make it inadvisable to operate the university on a given day, the president may, at his discretion, close the institution (i.e., cancel all classes and on-campus activities at all campuses). In the event of either a full or partial day closure, notification will be

provided to the following radio and television stations: WDAD Radio (Indiana), WCCS Radio (Homer City), WJAC-TV (Johnstown), KDKA-TV and KDKA Radio-1020 AM (Pittsburgh), and WTAE-TV and WTAE Radio-1250 AM (Pittsburgh).

Cancellation of IUP-Sponsored Activities or Events in the Absence of University Closure: : Should adverse weather conditions arise or be anticipated that would make it inadvisable to conduct an IUP-sponsored activity or event on a date when the university otherwise remains open, the sponsoring unit/department has the option to cancel or postpone the function. The sponsoring unit/department also assumes responsibility for notifying event participants of the cancellation/postponement in an appropriate and timely manner.

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Branch Campuses

**Frederick Sehring, Director,
Armstrong Branch**
**Valarie J. Mancuso, Director,
Punxsutawney Branch**

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General Information

IUP operates two branch campuses, one in Punxsutawney, twenty-eight miles north of the Indiana campus, and one in Kittanning, twenty-eight miles west of the Indiana campus. The first branch campus was established in 1962 in Punxsutawney. The following year the Armstrong campus in Kittanning was opened. The Punxsutawney campus accommodates 200-225 students, and the Armstrong campus accommodates 300-350 students.

Control of the branch campuses is directly vested with the IUP administration and Council of Trustees. Advisory boards from the respective areas identify local needs. Both branch campuses carry full accreditation as integral parts of the undergraduate programs of IUP. This means that courses offered at the branch campuses are of the same quality as those offered at the Indiana campus.

Programs of Study

The branch campuses of IUP offer basic Liberal Studies courses for most majors in the various undergraduate colleges of the university. Students may schedule a full program for the freshman year and some sophomore-level courses. No student accepted at either of the branch campuses is eligible for transfer to the Indiana campus until he/she has completed two semesters.

Faculty advisors and administrators at the branch campuses are available to advise students on their instructional programs and the proper time for continuing at the Indiana campus.

Admission

Any prospective student who wishes to attend either of the branch campuses instead of the Indiana campus may apply for admission by requesting an application from the Admissions Office or from the director of either branch campus. The mailing addresses for the respective branch campuses follow:

Armstrong County Branch Campus

IUP

Kittanning, PA 16201

Punxsutawney Branch Campus

IUP

Punxsutawney, PA 15767

Food Service

Each branch campus has its own dining hall within the residence hall. Meals are served seven days a week during the time the university is in session. Residence hall students as well as students living in private homes and apartments may make arrangements to take meals in the dining halls. The dining service is operated by the same food service contractor as on the Indiana campus.

Housing

The Punxsutawney Campus has privately owned residence halls for students living beyond commuting distance, while the Armstrong County Campus operates university-owned residence halls. Students are free to choose their housing from all available sources, which include the residence halls and private homes or apartments in the community. A list of rooms and apartments is available in each campus director's office.

Rules and Regulations Concerning Student Behavior

Students at the branch campuses are subject to the same rules and regulations as students on the Indiana campus.

Fees

Branch campus students pay the same basic fees as Indiana campus students except for the health fee.

Continuing Education

The School of Continuing Education plays a significant role in programming Community-University Studies classes (noncredit), academic workshops, and institutes in the Punxsutawney and Kittanning areas. The school is also responsive to the needs of the local community through credit and noncredit activities.

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Academic Affairs Division Areas

Mark J. Staszkievicz, Provost

Mark J. Piwinsky, Associate Provost for Academic Administration

Ronald P. Maggiore, Associate Provost for Enrollment Management and Planning

Yvonne B. Redd, Assistant to the Provost

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The Eberly College of Business

Robert C. Camp, Dean
Manmohan D. Chaubey, Associate Dean

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The College of Education

John W. Butzow, Dean

Joyce Lynn Garrett, Associate Dean for Administration and Academic Affairs

John R. Johnson, Associate Dean for Educational College-School Partnerships

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The College of Fine Arts

Charles E. Cullum, Interim Dean
Douglas E. Bish, Associate Dean

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The College of Health and Human Services

Harold E. Wingard, Dean
Carleen C. Zoni, Associate Dean

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Brenda L. Carter, Dean
Alphonse N. Novels, Associate Dean
Vacant, Associate Dean

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College of Natural Sciences and Mathematics

John S. Eck, Dean

Aleksandra B. Kaniasty, Assistant Dean

Raymond P. Pavloski, Dean's Associate

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The University

Introduction

This bulletin contains announcements of courses for the academic year 1997-98. IUP reserves the right to repeal, change, or amend the rules, regulations, courses, and programs contained in this bulletin at any time. Tuition and fees are also subject to change.

According to IUP's Mission Statement, "...The university community must be supportive of and open to all scholars regardless of race, religion, creed, age, sex, disability, or ethnic heritage..." Full participation from each member of the university community in activities that support this mission is encouraged. Each member of the university community has a right to study and work in an environment free from any form of racial, ethnic, and sexual discrimination. In accordance with federal and state laws, the university will not tolerate racial or ethnic discrimination or discrimination on the basis of disability.

Indiana University of Pennsylvania is committed to equal opportunity and affirmative action for its students, employees, and applicants. The university is committed to providing equal educational and employment rights to all persons without regard to race, color, sex, religion, national origin, age, disability, ancestry, or sexual orientation.

This policy is placed in this document in accordance with state and federal laws including Title VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and the Civil Rights Act of 1991 as well as all applicable federal and state executive orders. This policy extends to disabled veterans and veterans of the Vietnam era.

Please direct all general inquiries regarding equal opportunity and affirmative action to:

Interim Director of Human Resources
G-1 John Sutton Hall, Indiana, PA 15705
Telephone: 412-357-2431, Fax: 412-357-2685
TD: 412-357-2481

TD: Telecommunications Device available in the
Advising and Testing Center, 412-357-4067
(V/TD) (8:00-4:30, M-F)
Office of Human Resources, 412-357-2481
(TD) (24 hours)
Campus Police, 412-357-2141(TD) (24 hours)

IUP ensures compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act through the provision of program access accommodations. Please direct inquiries regarding accommodations for persons with disabilities to

Student Concerns:

Dr. Catherine Dugan
Director, Advising and Testing Center/Disability Support Services
504 Coordinator
106 Pratt Hall
Telephone: 412-357-4067

Employee Concerns:

Ms. Helen Soltis
G-1 John Sutton Hall
Telephone: 412-357-2431

Specific inquiries regarding Title IX should be directed to

Ms. Rhonda Luckey
Director, Pechan Health Center
Pechan Health Center
Telephone: 412-357-6475

IUP is a member of Pennsylvania's State System of Higher Education.

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Acknowledgements

- **Illustration of Breezedale Alumni Center**
 - **Ron Mabon**, University Designer

- **Conversion of Catalog Information to HTML**
 - **Andrew Karatjas**, Student Worker, Registrar's Office
 - **Joanne Kuta**, Administrative Computing

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1997-1998 Undergraduate Catalog
Indiana, Pennsylvania 15705

About the On-Line Catalog

The files containing this catalog are intended for reference only and do not take the place of the official printed copy. Because the electronic form of the publication is displayed on a wide variety of machines with varying capabilities, the reader is cautioned that the format of the original document cannot always be preserved.



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The University

President's Message

Indiana University of Pennsylvania

Congratulations on your decision to experience the exciting intellectual, cultural, and social world of Indiana University of Pennsylvania.

The only university in the Pennsylvania State System of Higher Education to confer doctoral degrees, IUP attracts faculty members who are on the cutting edge of their fields but are committed to undergraduate teaching. Outstanding programs in more than a hundred majors, from the traditional liberal arts and sciences to such professional fields as nursing, business, criminology, and safety sciences, offer a broad array of academic challenges. Classrooms and residence halls equipped with fiberoptics and cable television support a rich academic tradition in which students actively participate in the learning process.

IUP stretches the boundaries of the academic environment to include learning experiences, through research and internships, that prepare students for careers in the global marketplace. The university's internship program places students in a variety of professional settings, from the European Parliament to Fortune 500 companies to the White House. IUP's rigorous Liberal Studies requirement, emphasizing communication skills and analytical thinking, ensures that all our students are prepared for life as well as for a career. Longstanding excellence in the fine arts creates a campus life rich in cultural and entertainment opportunities. IUP's global partnerships bring a cosmopolitan student body to Indiana and provide attractive opportunities to study abroad.

The Robert E. Cook Honors College at IUP is an exciting model that combines for especially gifted students intellectual engagement and service, reflecting the university's values of high intellectual achievement, personal development, commitment, and volunteer service.

Strong academic programs are complemented by the university's successful athletics program. Fans from across the region enjoy not only highly competitive teams but one of the country's top marching bands.

On behalf of the IUP family, I take pleasure in welcoming you.

Lawrence K. Pettit, President

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Undergraduate Degrees Offered at IUP

Indiana University of Pennsylvania

Bachelor of Arts

Anthropology (Tracks available: Applied Anthropology, Archaeology, General Anthropology)
Art/History Track
Art/Studio
Biology
Chemistry
Computer Science
Criminology
Criminology/Pre-Law
Economics
Economics/Mathematics
Economics/Pre-Law
English
English Pre-Law
French
French for International Trade
General Fine Arts
Geography (Tracks available: Economic Geographer, Environmental Geographer, General Geography, GIS and Cartographer)
German
German for International Trade
Government and Public Service
History
History Pre-Law
Journalism
Music (Tracks: History and Literature, Music Performance, Theory and Composition)
Philosophy
Philosophy Pre-Law
Physics
Political Science
Political Science/International Studies
Political Science Pre-Law
Psychology (Applied Psychology Track available)
Regional Planning (Tracks available: Economic Developer, Environmental Planner, GIS and Cartographer, Town Manager)

Religious Studies
Sociology (Tracks available: Applied Social Research, Clinical Sociology, General Sociology)
Spanish
Spanish for International Trade
Theater

Bachelor of Science in Education

Art Education
Biology Education
Business Education
Chemistry Education
Early Childhood Education
Earth and Space Science Education
Education of Exceptional Persons
Education of Persons with Hearing Loss
Elementary Education
English Education
Family and Consumer Sciences Education
French Education K-12
General Science Education
Secondary German Education
Health and Physical Education
Mathematics Education
Music Education
Physics Education
Social Science Education (Concentrations available: Anthropology, Sociology; Tracks available: Economics, Geography, History)
Secondary Spanish Education
Speech-Language Pathology and Audiology
Vocational-Technical Education

Bachelor of Science

Accounting
Applied Mathematics
Applied Physics
Biochemistry
Biology
Business Pre-Law
Chemistry
Child Development/Family Relations
Communications Media
Computer Science (Tracks available: Applied Computer Science, Languages and Systems)
Consumer Affairs (Community Services Track available)
Dietetics
Environmental Geoscience
Environmental Health
Fashion Merchandising
Finance
Food and Nutrition Science
General Studies
Geology
Hotel, Restaurant, and Institutional Management
Human Resources Management
Interior Design/Housing

International Business
Management
Management Information Systems
Marketing
Mathematics
Medical Technology
Natural Science (Tracks available: Pre-Chiropractic, Pre-Dentistry, Pre-Engineering, Pre-Optometry, Pre-Physical Therapy, Pre-Podiatry)
Nuclear Medicine Technology
Nursing
Office Systems
Physical Education and Sport
Physics
Rehabilitation
Respiratory Care
Safety Sciences

Bachelor of Fine Arts

Music Performance
Studio

Associate of Arts

Business
General Studies

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The University

A University Education

As an institution of higher learning, IUP is a community of scholars of both faculty and students, committed to discover, preserve, and impart truth in all its forms. Our primary concern is with the intellectual, moral, cultural, physical, social, and aesthetic development and maturation of our students. To this end we are charged with providing a liberal education of both general and specialized studies which will allow our students to liberate themselves from narrow interests and prejudices, to broaden their intellectual horizons by increased cultural perspective, to develop the ability to think logically, critically, and creatively, and to communicate their judgments clearly and forcefully. The curriculum involves a body of knowledge about the universe and about people, their nature, behavior, and values. It also provides an opportunity to gain specialized knowledge as a preparation for graduate study and entry into professional life. Beyond this breadth and depth of knowledge, the university recognizes that such an education is only a beginning and hopes to stimulate its students to pursue continuous development in the areas of human knowledge, to seek wisdom, to challenge the mysteries of life and examine its ultimate meaning, and to become useful members of society by embracing careers which will touch the whole community.

Approved by the University Senate in May, 1979.

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The University

History of the University

IUP has witnessed a history rich in accomplishment. Since 1875, when it served only 225 students in a single building, it has experienced continuous growth, becoming Pennsylvania's fifth largest university. The current enrollment is over thirteen thousand, with students from thirty-six states and over fifty-five countries.

The first building, named John Sutton Hall in honor of the first president of the Board of Trustees, was opened for students on May 17, 1875.

In April, 1920, control and ownership of the school passed to the Commonwealth of Pennsylvania. In May, 1927, by authority of the General Assembly, the State Normal School became a college, with the right to grant degrees. The name was then changed to the State Teachers College at Indiana, Pennsylvania. In 1959, the legislature approved a change of name to Indiana State College; in the 1960s there followed a rapid growth in the liberal arts program.

In December, 1965, Indiana was redesignated Indiana University of Pennsylvania and given the authority to expand its curriculum and to grant degrees at the master's level. At this time the first doctoral program was initiated.

The following publications have all recognized IUP for its high academic standards and competitive costs: *Arco's Dollarwise Guide to American Colleges*; *Barron's 300: Best Buys in College Education*; *The Best Buys in College Education* by Edward Fiske, education editor of the New York Times; *Changing Times*; *How to Get an Ivy League Education at a State University* by Martin Nemko; *Money* magazine's *Money Guide*; *Two Hundred Most Selective Colleges: The Definitive Guide to America's First-Choice Schools*; and *U.S. News and World Report*.

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The University

Accreditation

IUP is a state-owned institution for higher education and a member of the State System of Higher Education. It is an approved and fully accredited member of the Middle States Association of Colleges and Schools, the National Council for Accreditation of Teacher Education, the American Home Economics Association, the American Chemical Society, the American Psychological Association, the National League for Nursing, the American Society of Safety Engineers, the Committee on Allied Health Education and Accreditation, the National Association of Schools of Music, the National Association of School Psychologists, the National Accrediting Agency for Clinical Sciences, and the Council on Hotel, Restaurant, and Institutional Education.

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The University

Buildings and Grounds

With the addition in 1995 of 137 acres of undeveloped land from the former Campbell and County farms, the main campus, originally consisting of 12 acres and one building, is now composed of 341 acres on which are located seventy-five major buildings owned by the state and seven athletic fields. Two of the buildings, Breezedale and John Sutton Hall, have been entered in the National Register of Historic Places. The Co-op Recreational Park, located a few miles from the campus, consists of 280 acres and several buildings including a lodge and ski hut. The wooded hillsides offer opportunities for nature study and such outdoor recreational activities as hiking, skiing, and exercise trails.

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The University

Institute for Research and Community Service

In September, 1989, the Institute for Research and Community Service was created within the Research Division of the Graduate School to replace the Center for Community Affairs and the Institute for Applied Research and Public Policy Studies.

The Institute for Research and Community Service serves as the primary outreach office of the university to link community effort and need with the diverse resources of the university and to encourage research activities among the faculty. Major areas of responsibility include:

1. To expand economic development and public service initiatives within the university's research mission;
2. To provide a coordinating function for all IUP research centers;
3. To provide leadership and support for the Applied Research Lab and other affiliate programs.

A wide variety of services are offered through outreach efforts to community leaders in government, business, education, human service, and health care agencies and organizations. Typical services include policy analysis for local governments, needs assessments, survey research, computer projects, proposal and project development, and archaeological services, including Phase I and II surveys. Through affiliation with the IUP Information Systems and Communications Center, a variety of specialized census and economic data reports are developed upon request.

Staff of the institute includes a director, fiscal assistant, graduate assistant, undergraduate students, and faculty associates.

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The University

Information Systems and Communications Center

The Information Systems and Communications Center (ISCC), established in 1963, is located on the ground floor of Stright Hall. The ISCC provides computational support for undergraduate and graduate courses, faculty and student research, and the administrative requirements of the university.

The primary computing capacity of the center is provided by a DEC Open VMS cluster which supports both timesharing and batch processing services. A campus network provides 9.6K and 28.8K baud terminal access with Ethernet connectivity available in most locations. IUP is connected to the Internet via the SSHEnet.

Student access to computing is provided, for the most part, through the public computing laboratories. The primary public labs are strategically placed around campus to maximize their availability and impact. Several departments maintain computing facilities that are of a focused nature and which are intended to support specific programs.

Through implementation of its strategic computing plan, which is part of the university long-range planning process, the university is committed to providing the level of computing and information technology necessary for a modern institution of higher education. Guidance in this area is provided by both an Academic Computing Advisory Committee and an Administrative Computing Oversight Committee. Undergraduate and graduate students are represented on the Academic Computing Advisory Committee.

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The University

Library and Media Services

Patrick J. Stapleton, Jr., Library, the central library for IUP, was completed and dedicated in 1981. It adjoins Rhodes R. Stabley Library, which results in a combined structure of 156,000 square feet. The Cogswell Music Library, the University School Library, and the branch campus libraries in Kittanning and in Punxsutawney are the other components of the IUP library system. Nineteen library faculty members, twenty-two support and technical staff members, and over two hundred students are employed in the Libraries and Media Resources Division of the university. The book collection contains in excess of 700,000 volumes; there are 4,500 periodical subscriptions, 1.7 million items of microforms, over 100,000 bound periodicals, and in excess of 24,000 volumes of governmental publications. (IUP is a designated Select Depository for federal and state publications.) The libraries' media holdings in all formats are extensive. Resources are supplemented through membership in OCLC for interlibrary loan, the Health Sciences Consortium (North Carolina), and the Laurel Highlands Consortium and associate membership in the Center for Research Libraries. The central library is open 93 hours a week during regular terms. The Cogswell Music Library, located on the top floor of Cogswell Hall, contains approximately 6,000 books, 70,000 scores, and 10,000 recordings. Holdings of monumental editions are substantial. Sound recordings circulate only to faculty, but listening stations are available for use by all patrons. The University School Library's 6,500 volumes support the curriculum of grades K-6 at the University School. The Armstrong County Campus library has more than 22,000 volumes, and the recently renovated Punxsutawney library contains more than 13,000 books as well as 150 periodicals and recordings of music, poetry, and drama.

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The University

University Senate

Purpose

The purpose of the University Senate is to provide a formal means through which the student body, faculty, and administration, working as a unified group, shall have a representative share in the governance of the university.

Nothing relating to the organization and administration of the University Senate shall be construed so as to limit the authority of the Council of Trustees or the president of the university with respect to the administration of the university as prescribed by law.

Composition and Elective Procedures

The University Senate shall consist of a number of faculty double the number of departments of the university, an administrative segment one-third the size of the faculty segment, and a student segment one-half the size of the faculty segment. The Senate shall also include one Alumni Association representative and four representatives from staff. Faculty, administrative, and staff members must hold full-time contracts at the time of election or appointment, and students must be full-time and in good standing. "Student" refers to both the undergraduate and graduate student bodies. The student segment shall consist of ten times as many undergraduate students as graduate students, each delegation to be elected by its representative student body. Undergraduate students shall be elected under the auspices of the recognized student association (as defined by Pennsylvania state Act 1982-188) and graduate students through elections arranged by their comparable body. In both cases, the officiating body shall call for and accept voluntary nominations for election to the Senate. Student members of the University Senate serve on most of the Senate committees.

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The University

The Foundation for IUP

Incorporated in 1967, the Foundation for IUP is a nonprofit agency whose mission is two-fold—first, the Foundation acts as the repository for all private financial support that is raised for the university and has the fiduciary and legal responsibilities for the management, investment, and disbursement of these funds and for the conduct of the organization's affairs. Second, in collaboration with the university development staff, the Foundation for IUP helps to raise private financial support from alumni, parents, friends, corporations, foundations, faculty, and staff for university needs, priorities, and programs such as scholarships/student aid, technology, faculty support, library support, programs, department support, capital projects, endowment, athletic support, and unrestricted support.

The Foundation is governed by a twenty-four-member Board of Directors who represent four categories of constituencies—trustees, alumni, faculty sponsors, and ex-officio members. As part of the Institutional Advancement Division, the Foundation works closely with the Institutional Advancement staff, the vice president for Institutional Advancement, and the president of IUP.

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The University

Interim University Policy on Sexual Harassment

IUP affirms that sexual harassment is a violation of basic human rights, inconsistent with the purpose and principles of an academic community. **Sexual harassment of students and employees is unacceptable conduct and will not be tolerated.**

Any university community member who engages in sexual harassment is subject to the disciplinary process appropriate to his/her classification as an employee or student.

The right to confidentiality of all parties involved in a sexual harassment complaint shall be strictly adhered to insofar as it does not interfere with the university's legal obligation to investigate allegations of misconduct and to take appropriate corrective action.

IUP prohibits retaliatory action against individuals filing either informal or formal complaints of sexual harassment. Nothing contained in this policy protects an individual who maliciously makes false accusations. While seeking to protect those whose dignity might be compromised, it must be emphasized that false accusations of sexual harassment will not be tolerated.

Definition: Sexual harassment is a form of sex discrimination that is reprehensible and unlawful. Title IX of the education amendments of 1972 prohibits sex discrimination in employment. Sexual harassment is defined as:

0. making unwelcome sexual advances
 - a. requesting sexual favors
 - b. verbal or physical conduct of a sexual nature—whereby submission to such conduct is made, either explicitly or implicitly, a term or condition of a person's employment or education
 - c. verbal or physical conduct of a sexual nature—which has the purpose or effect of unreasonably interfering with an individual's academic, personal, or professional performance
 - d. verbal or physical conduct of a sexual nature—which has the purpose or effect of unreasonably creating an intimidating, hostile, or offensive educational, social, or work environment
 - e. basing employment or academic decisions upon a person's submission to or rejection of verbal or physical conduct of a sexual nature
 - f. basing employment or academic decisions upon a person's submission to or rejection of verbal or physical conduct of a sexual nature

Sexual harassment occurs in a variety of situations. Many of these situations have two circumstances in common:

- the inappropriate introduction of sexual activities into relationships of unequal power
- an element of coercion—so that compliance with requests for sexual favors becomes a criterion for granting employment or academic benefits.

Sexual harassment may also involve relationships among equals. In these cases, repeated sexual advances or demeaning verbal behavior have a harmful effect on one's ability to study, live, or work within the academic community.

Questions regarding the Sexual Harassment Policy or complaint procedures may be directed to the Director of Human Resources, G-30 Sutton Hall, IUP. Policy approved by University Senate, May 1, 1990; pending final approval by Council of Trustees.

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Admissions and Registration

Undergraduate Admissions Policy

Graduates of an accredited four-year high school or holders of a GED equivalency diploma are qualified to apply for admission to IUP. Students who have completed the junior year of high school may file an application any time after July 1.

Requests for applications and catalogs should be addressed to

Office of Admissions
Indiana University of Pennsylvania
216 Pratt Hall
Indiana, PA 15705
1-800-442-6830 or 412-357-2230

The Admissions Committee, giving equal opportunity to all students, will take the following criteria into consideration when reviewing each application: SAT or ACT scores, class rank, grades, high school counselor recommendations, faculty recommendations, extracurricular activities, and other pertinent information that would be helpful to the Admissions Committee in making decisions. SAT or ACT scores are not required for transfers, veterans, or applicants who have graduated from high school more than five years before applying. However, high school and all previous college transcripts are required of all applicants. Although the university does not require a specific number of high school credits in particular subject areas, applicants are strongly urged to take the usual college preparatory program in high school. Applicants should also take any available high school courses in the field of their intended major. Certain majors at IUP require completion of a foreign language at the intermediate level in order to earn a bachelor's degree. The Admissions Committee does not require an applicant to take a foreign language in high school for admission to these majors.

Applications are considered by the Admissions Committee on a rolling basis. Under a rolling admissions policy, applications are reviewed as they become complete. Decisions can range from automatic acceptance, to request for additional information, to other alternatives, with a May 1 deadline for tuition deposits.

Academically qualified applicants to the departments of Art, Music, and Theater will be admitted to the university by the Admissions Committee. However, admission to the requested major will be subject to the acceptance by the Department of Art after a portfolio review and by the departments of Music and Theater after an audition. Students will receive information from the Art, Music, and Theater departments concerning auditions and portfolio reviews once they have been accepted to IUP.

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Admissions and Registration

Freshman Applications

1. [Freshman Applications Information](#)
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Freshman Applications Information

Applications for admission will be available after July 1 following the student's junior year of high school.

All persons expecting to apply for freshman admission to IUP should plan to take the SAT or ACT test during their junior and/or early part of their senior year. The Admissions Committee recommends that students take the tests more than once. The committee considers the highest scores from all tests taken.

Arrangements to take the SAT or ACT tests can be made through the high school principal or counselor, or by writing to the College Entrance Examination Board, Box 592, Princeton, NJ 08540 or American College Testing, P.O. Box 168, Iowa City, Iowa, 52243 for an information pamphlet and a test registration form.

In order for the test scores to be received by IUP, the applicant should designate IUP on the test registration form as one of the universities to receive the scores, or the applicant can request that their school counselor forward test scores to the Admissions Office.

The applicant should give the completed application form and the nonrefundable \$30 application fee payable to IUP to his/her high school counselor or principal. The counselor or principal should mail the application and complete packet of admissions materials to the IUP Office of Admissions, 216 Pratt Hall, Indiana, PA 15705.

Early Admission

The Early Admissions Program permits students to enroll as college freshmen after completing the junior year in high school. Early admission applications must originate with the student's high school counselor and principal. Admission consideration will be given to those applications which contain a statement indicating explicit approval by the high school principal. Applicants are considered on an individual basis. The university Admissions Committee will exercise the final judgment as to university acceptance after a personal interview with the applicant. Early admission candidates are required to arrange for two separate interviews with Admissions counselors as part of the application procedure.

Processing the Application

1. The Admissions Committee reviews, with care and understanding, each of the several thousand applications that are submitted each year.
2. Decisions on applications are made on a rolling basis.
3. Applicants who are admitted to IUP may be invited to attend a program on campus to receive general information and discuss their academic and career plans with the college dean, faculty representative of their respective major, or other advisors.
4. A \$75 nonrefundable tuition deposit is due from all incoming students. This advance deposit payment will be credited toward the applicant's tuition.

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Admissions and Registration

Transfer Admission

1. [Transfer Admission Information](#)
2. [University Requirements](#)
3. [Residency Requirements](#)
4. [Transferring to the College of Education](#)

Transfer Admission Information

A student who has been attending another institution of higher education and wishes to transfer to IUP must submit an application, official transcripts of all postsecondary educational work, and an official high school transcript.

All admissions decisions are made on a "rolling" basis by the Admissions Committee. Under a rolling admissions policy, applications are reviewed as they become complete. Decisions can range from automatic acceptance, to request for additional information, to other alternatives.

Transfer applications (twelve or more postsecondary, college credits attempted) are reviewed on the basis of college coursework completed. Transfers are required to have at least a cumulative 2.0 grade point average on a 4.0 scale (C average) from all schools previously attended for admission to most programs. The teacher certification program requires a cumulative minimum 2.5 grade point average from all schools previously attended.

The evaluation of credits from other institutions of higher education is the responsibility of the Office of Admissions and the academic college dean who has jurisdiction over the student's desired major. Normally, courses considered for transfer are only those taken from institutions which are accredited by the six regional accrediting agencies. Each course is usually evaluated separately. The evaluation normally includes a review of the description, semester hours, and grade of each course along with the applicability of the course to the student's major at IUP. However, only credits transfer, not grade-point average. It has been the policy of the university that only courses with a "C" or higher grade will be accepted, except for two-year associate degree graduates of state-supported community colleges in Pennsylvania. No matter how many credits are transferable, the student must satisfy all of the degree requirements falling into the categories of

1. university requirements
2. college requirements
3. department requirements

A fee of \$30 will be charged to all incoming students who are transferring credits to IUP from other colleges and universities.

University requirements: Since all students are obliged to fulfill a basic program in Liberal Studies consisting of 53-58 semester credit hours and there is a reasonable degree of flexibility in the Liberal Studies requirements, the transfer evaluator and the college deans will look to this area first for applicable credits for transfer. Most introductory courses are generally equivalent.

Transferring to the College of Education

Students who transfer from other colleges and universities to IUP and the College of Education must complete application for Step 1 of the 4-Step Process, Teacher Certification. Applicants should submit the following with their application to the university:

1. a completed application to Teacher Certification signed by the program coordinator/department chairperson of the chosen major
2. an official transcript with at least 29 semester hours of transferable credits
3. an official transcript(s) with a cumulative QPA of 2.5 or higher (cumulative QPAs are calculated using **all** coursework completed at all universities/colleges)
4. Acts 34/151 criminal and child abuse clearances (Pennsylvania residents) or FBI clearance (out-of-state residents)
5. evidence of a negative TB test (no more than one year old)
6. evidence of speech and hearing test clearances

Only students who have completed Step 1 of the 4-Step Process are eligible to take Core Education coursework. In some programs, students must meet these requirements to take professional courses as well. Students should consult with the department chairperson and/or program coordinator for their specific program.

Students who do not meet the cumulative GPA of 2.5 or 29-minimum-credit requirement are not eligible for admission to the College of Education. Students should reapply for admission when deficiencies have been met.

Some students may have compiled sufficient credits and coursework equivalencies to qualify for Junior Standing. When this is the case, students should submit both the application for Teacher Certification and the application for Junior Standing with the application for admission to the university. Students should direct questions to the department chairperson and/or program coordinator for the selected major.

Residency requirements for awarding of degrees: The university requires that at least forty-five credits, generally including the last thirty credits in a student's curriculum, must be earned by enrollment in courses at IUP. It should also be noted that for community college graduates a maximum of sixty credit hours are transferable to this institution for the purpose of fulfilling a specific program of study. Excess credits, if any, may be transferred but cannot be used for fulfilling the minimum requirements for the degree.

To remain in good academic standing, transfer students must meet the same quality-point average requirements as those specified for all other undergraduate students. See section entitled "Criteria Governing Continuance at IUP."

The university accepts credits associated with "D" grades only when they are part of a completed associate degree earned at a publicly owned community college in Pennsylvania. These "D" grades will be treated in the same manner as those earned at IUP. This articulation policy was adopted by the Board of State College and University Directors in 1973.

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Admissions and Registration

Part-Time Study (Nondegree)

1. [Part-Time Studies Program--Undergraduate](#)
2. [Program for Visiting High School Students](#)
3. [Post Baccalaureate Studies \(Undergraduate\)](#)
4. [Second Baccalaureate Degree](#)
5. [Teacher Certification](#)

Part-Time Studies Program--Undergraduate

Part-Time Study (Nondegree) Part-time undergraduate study is available through the School of Continuing Education to any high school graduate or holder of a GED Equivalency Diploma. No SAT scores are required. Note: A TOEFL Score is required as part of the application for an individual whose native language is other than English. Those who are not U.S. citizens must submit a notarized copy of their current visa and I-94 card or alien resident card.

Applications are available from the Part-time Studies Program and must be submitted with documentation directly to the School of Continuing Education by August 15 for the fall semester and December 15 for the spring semester. A \$30 application fee is required. Applications submitted after established dates are not guaranteed consideration.

Transfer students may also apply to the School of Continuing Education for part-time study and must submit official transcripts for all previous college work attempted. An overall 2.0 GPA is required.

A student in the Part-time Studies Program is limited to a semester enrollment of no more than eleven credits and must apply for formal admission to a degree program before thirty IUP credits have been earned. Applications for degree candidacy must be filed by the midterm point of the fall or spring semester preceding candidacy. Specific requirements for grade-point average and IUP credit vary by degree program. The minimum credit criteria to apply for consideration for degree candidacy are as follows:

High School Diploma or GED	15 IUP Credits	2.0 GPA
Veteran (DD-214 required)	9 IUP Credits	2.0 GPA
Transfer (with 12 or more credits)	9 IUP Credits	2.0 GPA
Transfer (with 11 or less credits)	15 IUP Credits	2.0 GPA

Note: A student who has applied and has been admitted by the Office of Admissions to a branch campus is not eligible to apply to the School of Continuing Education.

Program for Visiting High School Students

IUP permits the exceptional high school student to preview university life and earn regular college credit on a limited nondegree basis. The student must have completed the sophomore year with a minimum of a "B" average and have the written support of the high school principal or guidance counselor. The parameters of the student's enrollment are defined in consultation with the appropriate high school official and are limited to a maximum of nine credits per

semester. For further information, contact the School of Continuing Education.

Post Baccalaureate Studies (Undergraduate)

The Post-Baccalaureate Studies Program provides access to undergraduate courses to individuals who have an earned baccalaureate degree. Students may be seeking a second bachelor's degree, an additional teacher certification, or personal enrichment. Students may enroll on a full- or part-time basis based on personal preference and availability of coursework.

Applications are available from the School of Continuing Education. A completed application and official transcripts of all previous undergraduate coursework must be submitted for review by August 15 for fall semester and December 15 for spring semester. Applications not submitted by established dates are not guaranteed consideration. A \$30 application fee is required. The fee is waived for graduates of IUP.

Second Baccalaureate Degree

A student with an earned baccalaureate degree who wishes to complete the requirements for a second or subsequent bachelor's degree must make application and submit official transcripts indicating degree(s) awarded. The student must complete a minimum of thirty additional IUP credits and meet the requirements for graduation established by the academic department and college in which the new degree is to be earned. It is not possible to receive two or more baccalaureate degrees simultaneously. However, a student may complete one or more secondary majors while earning the primary degree.

Teacher Certification

A student with an earned nonteaching baccalaureate degree who wishes to complete the requirements for Instructional Level I certification **must** apply as a second bachelor's degree student. A minimum cumulative grade-point average of 2.50 is required for consideration for admission. To earn Instructional Level I, the student must satisfactorily complete the prescribed courses in an IUP degree certification program at a minimum cumulative grade-point average of 2.5 and successfully pass the National Teacher Examination.

A currently Pennsylvania-certified teacher who wishes to add a new area of certification may apply to the School of Continuing Education under the category teacher certification. Individuals admitted to an additional teacher certification will follow an individually planned and approved course of study.

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Admissions and Registration

Immunization Requirements

Students entering effective fall, 1991, are required to complete a Student Health Form documenting immunization status. [See Health Services information in section "Student Programs and Services."](#)

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Admissions and Registration

Readmission Policy for Students Who Withdraw from the University Voluntarily

Graduate students wishing to return to the university must contact the Graduate School at (412) 357-2222 for specific instructions. School of Continuing Education students should contact the School of Continuing Education at (412) 357-2292.

All other undergraduate students who have withdrawn from the university or were not enrolled during the previous regular semester must complete an Application for Readmission, available in the Office of the Registrar, G8 Sutton Hall, or by calling (412) 357-5732. During evening or weekend hours, you may call this number and leave your name and address, and a form will be promptly mailed to you. The readmission deadline for the fall semester is July 20 and December 1 for the spring semester.

All outstanding financial obligations to the university must be met before your Application for Readmission will be processed. Due to enrollment restrictions, requests for readmission to Nursing, Music, or Art will be forwarded for approval by a representative designated by that dean or department.

Requests for readmission for academically dismissed students will be forwarded to the Office of the Dean of the college in which the student was enrolled at time of dismissal for a decision on the student's readmission.

Readmitted students who have not enrolled for two years and have petitioned their college dean under the Cancelled Semester Policy must first register and pay fees and attend classes before their designated semester will be cancelled.

Once your application for readmission has been approved, you will be sent a Time Appointment Notice by the Office of the Registrar with instructions on how to register.

As a student readmitted to IUP, you are encouraged to complete the Free Application for Federal Student Aid (FAFSA) to determine your financial aid eligibility. Your financial aid eligibility will be based on your financial need, as determined by the FAFSA, and your prior academic record.

If you have previously attended a postsecondary school or schools other than IUP, a Financial Aid Transcript must be completed by this previous school and sent to IUP.

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Admissions and Registration

The Summer Sessions

The summer school program at IUP is designed to meet the needs of many students. Courses, workshops, and seminars are offered in the liberal arts, in teacher education, and in other fields of study.

Continuing university students, including newly admitted freshmen, who wish to accelerate their program of studies will find both Liberal Studies and special courses in all fields of study. Students from other colleges and universities may take courses at IUP; however, they are advised to first ensure that their home institution will transfer such credits earned at IUP.

Teachers-in-service will find courses in the summer program to serve a variety of needs. They may enroll to qualify for permanent certification, take refresher courses in their field of specialization, or take courses for the purpose of extending their certification to a new field.

The Summer Sessions Schedule is now combined with the Fall schedule. It can be obtained by contacting the Scheduling Center, Room G3, Sutton Hall (toll-free number 888-800-3190). The schedule can also be viewed on the World Wide Web at <http://www.iup.edu.schedu/>.

Attendance at summer sessions undergraduate school is open to all students but does not constitute admission or readmission for continuing registration in the fall and/or spring semesters. Students in good standing who desire admission must obtain an application through the Office of Admissions or the School of Continuing Education, as appropriate. Students who desire readmission for the fall semester must apply to the Registrar's Office by the preceding July 20 and by December 1 for the spring semester.

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Admissions and Registration

American Language Institute (ALI)

The American Language Institute offers several noncredit, intensive English programs for international students and visitors from beginning through advanced levels each semester.

The English for Academic Purposes Program (EAP) is for applicants seeking to prepare themselves for study at any U.S. college or university. Enrollment in fall and spring semester is for fourteen weeks (20 hrs/wk). In summer semester, programs generally are offered for ten weeks. Students are placed at beginner, intermediate, or advanced levels by proficiency tests at the start of each program. An institutional TOEFL is administered at the conclusion of each semester.

The ALI also offers two less intensive programs: English for Specific Purposes (ESP) for graduate students entering specialized fields and English for Visitors (EV) for visiting professionals who seek improvement in English while experiencing life in the U.S. Special part-time credit programs can be arranged.

Cocurricular social and cultural programs are offered to all students.

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Finances

*Tuition Fees

*Tuition Fees (as of May, 1997)

The tuition and fees set forth in this section were those in effect in May, 1997. The fee schedule is subject to change; these figures are to be considered simply as an estimate. A current fee schedule may be obtained by writing to the Admissions Office, IUP, or by phoning (412) 357-2230.

The tuition for all full-time in-state students is \$1,684 per semester. This covers registration and the keeping of student records, use of the library, student welfare, and laboratory facilities. An additional \$140 per credit will be charged for undergraduate credits scheduled in excess of eighteen. The tuition for part-time in-state undergraduate students is \$140 per semester hour. A part-time undergraduate student is one taking eleven or fewer semester hours. See the sections on Admissions and Registration and on University Policies for further information concerning part-time students.

Out-of-state full-time students pay tuition of \$4,283 per semester. An additional \$357 per credit will be charged for credits in excess of eighteen. The tuition for part-time out-of-state students is \$357 per semester hour. The definition of an in-state student is based on domicile. An in-state student is one who has been domiciled in Pennsylvania for at least one year preceding attendance at any institution of higher education in the state of Pennsylvania. A minor is presumed to have the domicile of his/her parents or legal guardian. Students who have any question whatsoever concerning their domicile should read the official text of the rules, as published in Volume 22, Pennsylvania Code, Section 507.1 through 507.11.

**The university reserves the right to change its fees without notice.*

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Finances

*Other Fees

Audit Fee

Full standard fees will be assessed for each course audited, exception being persons on Social Security or equivalent retirement benefit, who will be given remission of basic fees for such classes where space is available.

Bad Check Charge

Students making checks payable to "Indiana University of Pennsylvania" which are not acceptable to the bank for any reason will be charged \$10 for each bad check in the amount of \$.01 to \$49.99 and \$20 for bad checks written for \$50 or more.

Dining Plan Fee

The semester fees for dining plans effective June, 1996, are:

Plan A - Unlimited access to Foster and Folger only	\$728
Plan B - 19 meals a week + \$50 in Flex money	\$715
Plan C - 19 meals a week	\$665
Plan D - Any 240 meals a semester	\$692
Plan E - Any 14 meals a week + \$100 in Flex money	\$729
Plan F - Any 14 meals a week	\$629
Plan G - Any 165 meals a semester	\$598
Plan H - Any 10 meals a week + \$100 in Flex money	\$652
Plan I - Any 10 meals a week	\$552
Plan J - Any 75 meals a semester	\$359
Plan K - Any 5 meals a week + \$100 in Flex money	\$464
Plan L - Any 5 meals a week	\$364

Flex money can be carried from fall to spring semester; however, any portion not used by the end of the spring semester **will be forfeited**. Flex may be used for guests.

Educational Services Fee

All students are charged a fee to support academic equipment and library resources. For full-time students the fee is \$75 per semester; for part-time students the fee is \$35 per semester, and all students are charged \$35 per summer session.

Facilities Fee

All students are charged a fee to support maintenance and repair projects, recreational facilities, and the advancement of technologies. For full-time students the fee is \$93 per semester; for part-time students, the fee is \$43 per semester,

and all students are charged \$43 per summer session.

Financial Delinquency Policy

Registration is not in fact complete until a student pays the fee for such registration and the university reserves for itself the right to bar a nonpaying student from classes. When it has been determined during the course of a semester that a student's account has become delinquent from accrued charges, the Registrar's Office will be notified of this delinquency and advised to refrain from reporting the student's grades and from issuing any transcripts for that student's work until the delinquent account has been satisfied. Faculty members will continue to submit a grade for the financially delinquent student; however, requests from students will not be honored, and official reports will be released by the Registrar's Office only after the student has cleared his or her account or has established a payment plan satisfactory to the Accounts Receivable Office.

Health Fee

IUP offers two student health fee plans. Plan A - \$68 offers all services including starter doses and over-the-counter medications. Plan B - \$78 offers all services including all medications. The student health fee is assessed for each full-time undergraduate or graduate student at the Indiana campus. All new students will automatically be enrolled in Plan B and should indicate their preference for Plan A by completing and returning a card which will be sent with the Prematriculation Immunization Requirements information. Part-time undergraduate students taking six to eleven credit hours will be assessed \$34 - Plan A and \$39 - Plan B per semester health service fee. Undergraduate students taking less than six credits have the option of paying the per semester fee or they may choose the Fee-for-Service schedule available at the IUP Health Center. The fee may be exempted for students living more than sixty miles from campus or on internship at a site more than thirty miles from campus. Students attending branch campuses have health fee options and should contact their branch campus director or the IUP Health Center. For further information on health fees, contact the University Health Service at (412) 357-6475.

Late Registration Fee

Students who desire to register on the day prior to the start of classes, designated by the university as the Late Registration Day, will be assessed a Late Registration Fee of \$50. Students who register for classes after completion of the university's Late Registration Day will be assessed a Late Registration Fee of \$100. Exceptions to this fee may be granted by the provost or designee for students admitted late to the university for reasons deemed appropriate by the provost.

Med-Tech Students

During the clinical year a fee may be levied and collected by the participating hospital. The only other cost to these students shall be an administrative fee of \$150 to be collected by the university. Room and board shall be the responsibility of the student.

Military Science Fee

An activity fee of \$5 is required for ROTC cadets to cover the cost of Cadet Corps functions. This fee is payable directly to the military science department.

Miscellaneous Costs

In some courses students are required to obtain supplies and materials to complete course projects. In many courses, a student may make a voluntary contribution to a cooperative fund established for the purpose of obtaining these supplies and/or services at a lower cost. Examples are art courses, field trips, etc.

Residence Hall Fee

The 1997-98 academic year room fees for residence hall students are \$976 a semester for a double-occupancy room and \$1,470 for single rooms. Resident students are required to have a dining plan and can select from plans A through H (see Dining fees).

Student Activity Fee

An activity fee is collected from all students and administered through the Student Cooperative Association under regulations approved by the Council of Trustees. This fee of \$112 per semester covers the cost of student activities in athletics, lectures, entertainment, student publications, etc., and is payable in one sum for the semester. The Student

Activity Fee is \$46 for part-time students. These fees apply to Indiana campus students only. Students attending the Armstrong or Punxsutawney campuses pay \$107.50 per semester full-time and \$41.50 part-time. (These fees are subject to change without notice during the academic year.)

Students Studying Abroad

Students enrolled in the studies abroad program will pay a program fee per semester to the university. All other fees assessed by the foreign institution will be paid directly to the foreign institution by the student.

Testing Fee

Each entering freshman must participate in placement testing during the summer immediately preceding the student's matriculation on campus. A fee of \$75 is assessed for this overnight, two-day experience for students admitted to the Indiana campus. Parents pay a nominal fee for their participation in the accompanying parent orientation program. Branch campus students participate in a summer one-day diagnostic testing experience only with a fee of \$45. Students receive information about the summer testing program prior to the testing date(s). Fees are included in the regular billing and are nonrefundable. Please see the catalog section on Orientation for further information about the Summer Orientation: Preregistration Placement Testing, Advising, and Course Selections Program.

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Finances

Estimated Expenses Per Semester

Estimated Expenses Per Semester	In-State	Out-of-State

Instructional Fee	\$ 1,684.00	\$ 4,283.00
Housing	976.00	976.00
Meals	728.00	728.00
Student Activity Fee	112.00	112.00
Health Fee	78.00	78.00
Educational Service Fee	75.00	75.00
Facilities Fee	93.00	93.00
Books and Supplies*	500.00	500.00

	\$ 4,246.00	\$ 6,845.00

Miscellaneous and travel expenses would be in addition to the above.

*Cost of books and supplies may vary depending on major and class enrollment.

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Finances

Summer Sessions Fees

Basic Fee

The basic fee for in-state undergraduate students enrolled for any of the regular summer sessions is \$140 per semester hour. The basic fee for out-of-state undergraduate students is \$357 per semester hour.

Dining Plan Fees

The five-week session dining plan fees for Summer, 1996, are:

Plan A	Unlimited access to Foster Hall	\$229
Plan C	19 meals a week	\$209
Plan D	Any 75 meals a session	\$218
Plan F	Any 14 meals a week	\$197
Plan G	Any 52 meals a session	\$187
Plan I	Any 10 meals a week	\$174
Plan J	Any 24 meals a session	\$113
Plan L	Any 5 meals week	\$114

Residence Hall Fee

The 1997 summer residence hall fees are \$66 a week for a double-occupancy room and \$98 a week for a single room. Students are charged for each session according to the number of weeks they will require housing. Resident students can select from dining plans A, C, D, F, or G.

Student Activity Fee

For each of the two summer sessions, this fee is \$37.50.

Student Health Fee

Each undergraduate and graduate student enrolled in IUP summer sessions will be assessed \$25 for each session for Student Health Services.

Finances

Special Fees

Damage Fee

Students are responsible for damages, breakage, loss, or delayed return of university property.

Degree Fee

A fee of \$30 will be charged each candidate for a degree at the time of approval of application for graduation. This fee is to cover costs of preparing diplomas and the graduation ceremony.

Transcript Fees

Applications for transcripts must be made only in writing to the registrar, either by U.S. mail or on forms available at the Registrar's Office in G-8 Sutton Hall. Such requests must include

1. Your full name and Social Security number as of your graduation or termination of enrollment at IUP. (Please note any name changes since graduation.)
2. Your present address.
3. Whether you graduated or, if not, when you were enrolled.
4. The full and clearly stated name(s) and address(es) of person(s) to whom you wish the transcript(s) sent.

A transcript fee is charged for each copy requested. (Checks or money orders should be made out to Indiana University of Pennsylvania.) An additional charge will be assessed for express transcript service. Please call 412-357-2217 for current transcript fee information.

Any requests which are not accompanied by the proper fees or information will be returned to the sender for inclusion of them. No transcript requests will be processed without the payment of transcript fees.

Official transcripts (containing signature and university seal) will not be issued to students directly. The university will attempt to mail official transcripts within a reasonable time. However, in the event of its failure to do so, damages will be limited to the fee, if any, paid by the student for the copy or copies of the transcript. In no case is the university responsible for consequential damages.

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Finances

Billing and Payments

All bills, including basic fee and housing fee, are payable as specified on the billing notice; students have several payment plan options. Checks or money orders, in the exact amount of the billing notice, should be made payable to IUP unless otherwise specified. Book Store purchases are on a cash basis.

It is desired that payments for the entire semester be made in August for the first semester and in December for the second semester; however, for a nominal charge an installment plan is available.

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Finances

Delinquent Accounts

Students will not be permitted to enroll for any semester nor to graduate until all bills previously incurred have been paid; nor will credit be certified to any other institution or the Department of Education until all overdue accounts have been paid. A late payment fee of \$10 for each day past the due date will be assessed for delinquent accounts up to a maximum of \$50.

Undergraduate students desiring to leave school before the close of a semester must report to the Advising and Testing Center and to the Accounts Receivable Office to settle all unpaid accounts.

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Finances

IUP Refund Policy

The university employs faculty, assigns residence hall space, and arranges for dining contracts in advance of each term based on the number of students who plan to enroll. A student who withdraws from the university creates vacancies that may not be filled and incurs obligations for compensation and services that must be honored.

The refund policy at Indiana University of Pennsylvania applies to all students enrolled in programs for credit at the university, its branches, the Regional Police Academy, and the Academy of Culinary Arts, both full time and part time. A student canceling or withdrawing from his/her first semester/session should refer to section IIC..

- I. [Cancellation Before Beginning of Current Semester](#)
- II. [Withdrawal from the Current Semester](#)
- III. [Individual Course Reduction](#)
- IV. [Termination of Residence Hall or Dining Service Contract](#)
- V. [Other Provisions](#)

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Finances

IUP Refund Policy--PART I.

I. Cancellation Before Beginning of Current Semester

Students registered and/or prepaid who decide not to attend for a semester are considered canceled; if the decision is made by the first day of classes, the student is subject to the following:

A student who has made prepayments but is unable to attend classes, and who so notifies IUP by the first day of classes, is entitled to a full refund of all fees paid, less applicable advance deposits. To be eligible for such a refund, a student who cancels before the first day of classes must notify the Director of Accounts Receivable in writing. The director will forward to the Registrar's Office a listing of the cancellation notice, and the registrar will cancel the student's registration and notify the appropriate university offices. A student who cancels on the first day of classes must notify the Advising and Testing Center, Pratt Hall, in writing. A student who uses university residence halls and/or dining services the week prior to the start of classes and then cancels will forfeit an amount equal to one week's fee for such services, plus the full amount of any advance deposit payment.

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Finances

IUP Refund Policy--PART II.

II. Withdrawal from the Current Semester

A student who registers for classes and then decides to withdraw from the current term after the first day of classes must do so through the Advising and Testing Center (undergraduate) or the Graduate School and Research Office (graduate). Dropping courses via Telreg or Termreg does not establish official withdrawal from the university. A student who withdraws is subject to the following:

- A. An undergraduate student who withdraws from the university must process the withdrawal request through the Advising and Testing Center, Pratt Hall. Graduate students must withdraw through the Graduate School and Research Office, Stright Hall. The official withdrawal date will be established by such offices. Advance deposits toward housing and tuition are not refundable.
- B. A returning student who has been approved to withdraw from courses will forfeit a portion of the semester fees in accordance with the following schedule:

Withdrawal on Weekly Basis	Percentage of Student's Total Semester Fees to Be Forfeited
-----	-----
First through second weeks	10%
Third through fourth weeks	50%
Fifth through eighth weeks	75%
After eighth week	No reduction
-----	-----

A student attending his/her first semester will be entitled to a reduction in fees to be forfeited as outlined in Section IIC.

Refunds for students receiving financial assistance from scholarships, loans, and/or grants will be returned to the source of aid in accordance with the provisions prescribed by the funding source.

- C. A first-semester student who cancels his/her schedule by the first day of classes is entitled to a 100 percent refund of fees, less the applicable advance deposits.

A student who is approved to withdraw after the first day of classes will forfeit a portion of the semester fees in accordance with the following schedule:

Percentage of Student's Total Time of Withdrawal	Semester Fees to Be Forfeited
--	-------------------------------

First week	10%
Second week	10%
Third week	20%
Fourth week	30%
Fifth week	40%
Sixth week	40%
Seventh week	50%
Eighth week	60%
Ninth week	60%
Tenth week	No reduction

A student will be charged a full week of fees for any partial week of enrollment. Advance deposit payments are not refundable.

- D. During summer sessions, students approved to withdraw from the university will forfeit a portion of the total fees in accordance with the following schedule:

Time of Withdrawal	Percentage of Student's Total Session Fees to Be Forfeited
First week	20%
Second week	40%
Third week	60%
Fourth week and beyond	No reduction

- E. The Provost's Office will determine the official start of classes for each semester. A student enrolled in credit-bearing summer conferences, institutes, workshops, or tours of less than five-week's duration will be granted a 50-percent refund through the third day of the class (unless a no-refund policy is required by the sponsor).
- F. A student who withdraws from the university must follow procedures for readmission if he/she chooses to return.

Finances

IUP Refund Policy--PART III.

III. Individual Course Reduction An individual course reduction is a reduction in class load, including all courses in a given semester, but not total withdrawal from the university. Example: a student who registers for three courses and then withdraws/drops one or two classes but continues with the other class or classes. Individual course reductions are limited to five withdrawals during a student's academic career at IUP. Courses "dropped" during the official drop/add period are not considered to be an individual course withdrawal.

No fees will be charged to a student who drops a course(s) by the first day of classes. No reduction in fees will be made to full-time students who reduce their credit load after the first day of classes. Part-time students who reduce their credit load after the first day of classes and thereafter will receive a reduction in part-time fees in accordance with the following schedule:

Withdrawal on a Weekly Basis	Percentage of Student's Fees to Be Forfeited
-----	-----
First through second weeks	10%
Third through fourth weeks	50%
Fifth through eighth weeks	75%
After eighth week	NO reduction

Students should familiarize themselves with the financial aid penalties related to individual course reduction. No reduction will be granted to students who drop and add like number of credit hours. Reductions will be granted to students for individual course withdrawals during the summer session under the same basis as outlined under section IID. During fall and spring semesters, students totally withdrawing from the university should refer to section II, A-C.

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Finances

IUP Refund Policy--PART IV.

IV. Termination of Residence Hall or Dining Service Contracts

Academic Year (Fall and Spring Semesters)

1. Residence Hall Termination - Release from a Residence Hall Contract is not granted except under the conditions outlined in the Residence Hall contract. Any student who submits a written request to Housing and Residence Life and meets the conditions for release through the first day of classes will be assessed no forfeiture and will receive a 100-percent reduction of the room fee, less the applicable advance deposit. Requests granted after the first day of classes will result in a forfeiture as outlined under section 2.

2. Dining Service Termination - Any student who requests in writing and is released from his/her Dining Service Contract by Housing and Residence Life, through the first day of classes, will be assessed no forfeiture, and the student will receive a 100-percent reduction of dining service fees. A student who requests in writing to terminate his/her university Dining Service Agreement, after the first day of classes, and is granted a contract release will forfeit a portion of the semester fees according to the following schedule:

Date of Termination from Contract	Percentage of Semester Fee to Be Forfeited
-----	-----
First through second weeks	10%
Third through fourth weeks	50%
Fifth through eighth weeks	75%
After the eighth week	No reduction

Cancellation of session block plans will result in forfeiture of the fees in the manner identified above or of fees equal to the actual meals eaten, whichever is greater.

3. Summer Sessions

Once a student applies for and receives a housing and/or dining service assignment, he/she must request in writing and obtain a release of that assignment from Housing and Residence Life in order to be eligible for a reduction of fees in accordance with the following schedule:

Date of Termination from Residence Hall Dining Contract	Percentage of Session Fees To Be Forfeited
-----	-----

Check-in* through the first week	20%
Second week	40%
Third week	60%
Fourth week and beyond	No reduction

Cancellation of session block plans will result in forfeiture of the fees in the manner identified above or of fees equal to the actual meals eaten, whichever is greater.

*The Office of Housing and Residence Life will publish the date students are to check into the residence halls for each summer session. The check-in date is the effective date of the student's contract.

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Finances

IUP Refund Policy--PART V.

V. Other Provisions

Formal withdrawal procedures must be initiated through the Advising and Testing Center (undergraduates) or the Graduate School and Research Office (graduates) at the point of withdrawal. A written and dated notice is required by the student or student's family in special circumstances, such as sickness, within thirty days of the student's withdrawal. In order to receive a reduction in fees for individual course withdrawal, documentation must be submitted to the Student Accounts Receivable Office prior to the close of the semester/session in which the course was offered.

Students who are suspended from classes, residence halls, and/or dining service will receive a reduction of fees in accordance with the schedule as outlined under sections II and IV.

The Advising and Testing Center (for undergraduate students) and the Graduate School and Research Office (for graduate students) may request exceptions to these policies when circumstances justify it. Example: death or medical reasons.

Student Military Reservists or members of the National Guard who are ordered to active military service by the President of the United States will receive a full reduction of charges for tuition. Other fees will be prorated.

Examples of refund calculations are available upon request in the Student Accounts Receivable Office, Administrative Annex, which is responsible for implementing the refund policy. Students may appeal the decision rendered by the Student Accounts Receivable Office to the director of Student Financial Services.

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Finances

Financial Aid

The Financial Aid Office, located at 308 Pratt Hall, offers financial information and counseling to all students attending IUP. The types of financial assistance offered by the Financial Aid Office include student employment, educational loans, and grants. Counseling on debt management and loan repayment options is also available.

Eligibility Requirements

The general requirements for financial aid eligibility include the following:

1. Be enrolled on at least a half-time basis (six credits per term) except for the Federal Pell Grant program.
2. Be a U.S. citizen, national or permanent resident, or other eligible noncitizen.
3. Maintain satisfactory academic progress in your course of study.
4. Be enrolled or accepted for enrollment in an Associate Degree, Bachelor's Degree, Post Baccalaureate Teacher's Certification program, or Post Baccalaureate Second Undergraduate Degree program.
5. Not be in default or have failed to make satisfactory arrangements to repay any Federal Student Loans. Not owe a repayment on a Federal Pell Grant or Federal Supplemental Educational Opportunity Grant.
6. Not have borrowed in excess of any Federal Loan limits.
7. Register with the Selective Service Administration, if required.
8. Submit Financial Aid Transcripts from all other postsecondary schools you have attended.
9. Have a valid Social Security Number.

Students must complete a *Free Application for Federal Student Aid* (FAFSA) by May 1 in order to receive maximum consideration for need-based financial aid administered through the university. The Title IV school code for IUP is 003277. Additional forms or applications may be required depending upon which student aid programs are being sought. Financial aid is available for both the regular academic year and the summer sessions. Separate applications for summer school aid must be submitted by the student.

Student Responsibilities

Students who apply for financial aid have certain responsibilities which are listed below:

1. Accurately complete and submit the appropriate application forms by the published deadline dates.
2. Submit requested materials, corrections, or new information on a timely basis.
3. Meet the regulations and repayment schedules of student loans.
4. Inform the Financial Aid Office of any grants, scholarships, or loans received from outside organizations.
5. Inform the Financial Aid Office of any information that has changed since applying for aid.
6. Understand the satisfactory academic progress requirements for maintaining financial aid eligibility.
7. Use financial aid funds for educational purposes only.

Finances

Financial Aid Programs Available

Financial assistance is available in the form of grants and scholarships, student employment, and educational loans. Each of these funding sources has unique characteristics which are explained in more detail below.

Employment

Employment programs provide an opportunity for students to earn money to help finance their educational expenses. Students may be employed at minimum wage for up to twenty hours per week when classes are in session and up to forty hours per week during vacation periods. Wages for hours worked are paid every other week directly to the student.

Students are responsible for securing their own positions on campus. A bulletin board outside of the Financial Aid Office displays known job vacancies. Also, students may call the CareerLink Student Employment Job Hotline, 412-357-2556, to hear about available positions. Students may directly contact departmental and administrative offices for job opportunities as well. However, there are generally more students seeking employment than there are jobs available. Students with work-study awards are not guaranteed that they will obtain employment.

Federal Work-Study Program (FWSP)

Eligibility for FWSP is based on financial need. Students must complete both the *Free Application for Federal Student Aid* (FAFSA) and an *IUP FWSP Application*.

Community Service Program

This employment program places FWSP-eligible students in community service positions available both on and off campus. In addition to earning money, students gain practical work experience related to their academic major. The Student Community Service Office located in 103 Pratt Hall assists students with placement.

University Employment (UE)

This program is similar to the Federal Work Study Program. However, students who do not demonstrate financial need may be employed. No financial aid application is necessary. Inquire directly with campus offices regarding available positions.

PHEAA State Work Study

Off-campus employment that relates to the student's academic major may be available through the PHEAA State Work-Study program. Applications are available in the Financial Aid Office and must be completed by both the student and the organization for which the student would like to be employed.

Finances

Educational Loans

Loan programs offer repayable assistance to students who apply and qualify for them. Repayment terms, interest rates, and borrowing limits vary from program to program. Educational loans are a serious and important obligation. Receipt of funds means that the student assumes the legal responsibility for repayment of the loan at a future date. The promissory note for the loan specifies the terms and conditions under which the student is borrowing and the repayment provisions that are in effect. Participation in Community Service positions after leaving school may provide for repayment of certain student loans.

Federal Perkins Loan

The application for the Federal Perkins Loan is the *Free Application for Federal Student Aid* (FAFSA). The loan is awarded to students on the basis of financial need and FAFSA receipt date of May 1 or earlier. Students who receive this loan must be enrolled for at least six credits each semester. There are no principal or interest payments until nine months after the student ceases half-time attendance (six credits per term). The minimum repayment rate is \$40 per month at a simple interest rate of 5 percent per year on the unpaid balance. There are deferment and cancellation provisions available.

Federal Stafford Loan

Applications for the Federal Stafford Loan are obtained from lending institutions. These include banks, savings and loan associations, credit unions, etc. A *Free Application for Federal Student Aid* (FAFSA) must also be completed.

Through this program, freshmen may borrow up to \$2,625 per academic year, sophomores may borrow up to \$3,500 per academic year, and juniors and seniors may borrow up to \$5,500 per academic year. Subsidized Federal Stafford Loans are awarded on the basis of financial need as determined by the *Free Application for Federal Student Aid* (FAFSA) and require no payment of interest or principal until six months after the student ceases half-time enrollment (six credits per term). Unsubsidized Federal Stafford Loans require payment of interest only during periods of enrollment and the six-month grace period. Following the grace period, both types of Federal Stafford Loans are repayable to the lender at a variable interest rate not to exceed 8.25 percent.

Additional unsubsidized Federal Stafford Loan funds are available to independent undergraduate students. Freshmen and sophomores may request up to \$4,000; juniors and seniors may request up to \$5,000. Dependent students whose parents cannot obtain a Federal PLUS Loan may also apply for these additional unsubsidized funds.

Federal PLUS Loan

Federal Parent Loans for Undergraduate Students (FPLUS) are obtained from lending institutions such as banks and credit unions and are administered in conjunction with the federal government. Parents may borrow for their dependent children up to the cost of education minus other financial aid. The loans are repaid at a variable interest rate not to exceed 9 percent per year starting sixty days after the final check is issued.

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Finances

University Loan Fund

The Financial Aid Office, in conjunction with the Student Cooperative Association, administers the University Loan Fund on behalf of IUP students. Loans are only available to students who are expecting a financial aid refund that is yet to be disbursed. The maximum loan available will be \$300 with repayment to be made in sixty days. No interest will be charged for these loans. Loans will be made to meet educational expenses only. Applications for the University Loan and additional information may be obtained at the Financial Aid Office.

The University Loan Fund encompasses the following individual loan accounts:

Jennie E. Ackerman Loan Fund - The Jennie E. Ackerman Loan Fund was established in 1962 in memory of Jennie E. Ackerman, who served as supervisor of student teachers at IUP for many years.

Robert Bellis Loan Fund - This loan fund has been established at IUP by friends and relatives of a graduate of Indiana State College.

Mary Edna Flegal Loan Fund - A loan fund has been established by Alpha Chapter of Delta Kappa Gamma Society International in memory of Mary Edna Flegal, who graduated from Indiana Normal School in 1899 and served as director of Art. Upperclass students enrolled in the College of Education are eligible to receive these funds.

Colette Cromer Gershman Loan Fund - Family and friends of Colette Cromer Gershman established this fund in memory of a family and consumer sciences education graduate. Upperclass students enrolled in the College of Health and Human Services are eligible for the loan.

Margaret Flegal Harte Loan Fund - The primary purpose of this fund is to aid students who are in temporary need of assistance.

Suzanne Marshall Hartman Loan Fund - A loan fund has been established by family and friends of Suzanne M. Hartman, a home economics graduate of IUP. This loan is granted to deserving students in their sophomore, junior, and senior years.

John Hays Memorial Fund - This loan fund is in memory of Dr. John Hays of IUP's educational psychology department. Dr. Hays was a faculty member at IUP for twenty-one years.

Oliver W. Helmrich Memorial Loan Fund - The Helmrich Memorial Loan Fund was established by family and friends in memory of an IUP faculty member. Eligibility is limited to seniors and graduate students enrolled in the College of Education.

William Henzelmann Memorial Fund - This loan provides assistance to junior and senior students enrolled in German or Russian in the Department of Foreign Languages. It was established in memory of William J. Henzelmann, a faculty member in German.

Mary Anne Kolessar Loan Fund - Established in memory of Mary Anne Kolessar, a consumer services student at IUP, the fund aids students majoring in consumer services who are in temporary need of funds.

Jane E. Leonard Memorial Loan Fund - The loan honors a faculty member at Indiana Normal School from 1875 to 1921.

Mack Loan Fund - Established by the Mack family, the fund provides assistance to worthy students with financial need.

Rusty Preisendefer Memorial Loan Fund - This fund was established by Suzanne Preisendefer Brickner in memory of her husband, Lt. Harold A. Preisendefer, who was killed in action in Vietnam.

Flossie Wagner Sanford Student Loan Fund - The Pennsylvania Federation of Women's Clubs established this loan fund in honor of a past president of the club and former member of the faculty.

Varsity I Loan Fund - Established by the Men's Varsity I Club, this loan is available for use by all IUP students. Preference is given to freshmen.

Norah Zink Loan Fund - The Zink Loan honors a former geography professor at IUP. Foreign students in their sophomore, junior, or senior year are eligible to receive these funds.

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Finances

Grants

Grants are funds which carry no obligation for repayment. These funds are awarded to the student on the basis of financial need.

Federal Pell Grant-The Federal Pell Grant program provides funds to eligible undergraduate students who have not earned a first bachelor's degree. A Free Application for Federal Student Aid (FAFSA) must be filed annually to apply for this grant. Awards are prorated based upon the number of credits for which a student registers.

Federal Supplemental Educational Opportunity Grant-Federal Pell Grant-eligible students are considered for Federal Supplemental Educational Opportunity Grants (FSEOG). A Free Application for Federal Student Aid (FAFSA) must be completed by May 1. Students who receive FSEOG must be enrolled for at least six credits each semester.

Pennsylvania State Grant (PHEAA Grant)-PHEAA Grants are available to eligible part-time and full-time undergraduate students who are Pennsylvania state residents. Part-time recipients must also meet specific PHEAA income guidelines. You must complete a Free Application for Federal Student Aid (FAFSA) by May 1 to apply. Academic progress guidelines require that a student earn twelve new credits for each semester for continued eligibility of grant funds. A maximum of eight full-time or sixteen part-time semesters of eligibility are permitted.

State Grants-Many state educational agencies offer grant assistance to students who study outside of their state of residency. Out-of state students are encouraged to investigate opportunities for grant funding from their home state.

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Finances

Scholarships

Departments, colleges, and the Provost's Office administer various scholarship programs that have been established by alumni and friends of the university. These scholarships serve to recognize academically talented students and assist them in financing their educational expenses. No general application is required for consideration. All eligible students are automatically considered for scholarship opportunities. Questions may be directed to the college dean or department chair of the student's intended major or current major for enrolled students.

Eberly College of Business; Dr. Robert Camp, Dean; 412-357-2520

Scholarships for incoming freshmen:

George M. Burke Memorial Fund – A four-year scholarship awarded to a freshman enrolled in the Eberly College of Business on a full-time basis who demonstrates financial need and who is a permanent resident of Pennsylvania.

Charles L. Cooper/Alumni Scholarships – Consideration given to all outstanding students, regardless of year of study, enrolled in the Department of Accounting of the Eberly College of Business.

Robert L. Hite Scholarship – Awarded to a full-time freshman majoring in Accounting, Finance, or Management from specified counties in Pennsylvania and New York. The recipient must maintain a minimum of fifteen credits per semester.

Fred E. Kunkle (Evergreen Motors) Scholarship – The Kunkle scholarship supports the Foundation Distinguished Scholars program by funding an outstanding freshman entering the Eberly College of Business. The award is renewable for four years.

Arveta DeGaetano McNaughton Scholarship – Awarded each year to a graduate of Indiana Area Senior High School who was enrolled in the Business Department at the Indiana Area Senior High School and who enrolls in the Eberly College of Business as a full-time student.

Carl E. Patchin Scholarship – The Patchin scholarship supports the Foundation Distinguished Scholars program by funding an outstanding freshman who will enroll in the Eberly College of Business. The award is renewable for four years.

Everett and Lavina Peterman Scholarship – A four-year scholarship awarded every four years to an incoming freshman who enrolls on a full-time basis as a Business Education or Management Information Systems major who has graduated from an Indiana County high school. The recipient will be a student who has scored at least 1000 on his/her SAT and who must maintain a 3.0 QPA overall at the end of each academic year.

S&T Bank College of Business Scholarship – Scholarship program provides twenty awards of \$1,000 each to entering freshman students enrolled in the Eberly College of Business. Recipients are selected by demonstrated academic promise and residency within the S&T Bank service area.

Scholarships for currently enrolled students:

Alcoa – This scholarship is awarded each year to a student majoring in Management Information Systems. The recipient is selected by the MIS faculty. Students in their sophomore, junior, or senior year are eligible to receive these funds.

J. Donald Bartolomucci Scholarship – This fund awards scholarships to upperclass students in the Eberly College of Business who are deemed worthy.

Robert and Irene Bozzone Scholarship – Awarded by the dean of the college to a full-time student within the college. Preference is given to students majoring in Marketing, Management, Finance, or International Business.

Charles L. Cooper/Alumni Scholarships – Consideration given to all outstanding students, regardless of year of study, enrolled in the Department of Accounting of the Eberly College of Business.

Eberly Family College of Business Scholarship – This scholarship offers assistance to undergraduate and graduate students enrolled in the Eberly College of Business. Criteria include superior academic achievement, good moral character, and financial need. Recipients selected by the university president, upon the recommendation of the Scholarship Selection Committee, shall be known as the Eberly College of Business scholars.

Fredericks Family Scholarship – Awarded to financially deserving and academically promising undergraduate students enrolled in the Eberly College of Business who are studying International Business and/or Finance. Recipient shall be enrolled in the Eberly College of Business and have completed their freshman year, successfully completing at least twenty-four credits and maintaining a 3.0 QPA.

Fredericks Michael and Company Scholarship – Awarded to provide financial support to academically promising and financially deserving undergraduate or graduate students enrolled in the Eberly College of Business who are studying International Business and/or Finance. The undergraduate students should have completed their junior year, and the graduate students should have completed their first semester and maintained a cumulative 3.0 QPA.

Eileen Quinn Hull Memorial Scholarship – This fund provides scholarship support to students in the ECOB who have completed at least sixty credits and maintained a 3.0 QPA in business courses and an overall 2.8 QPA. Preference is given to Business Education majors.

Office Systems and Business Education Scholarship – To financially assist part-time or full-time Office Systems or Business Education students who have completed at least the first semester of their junior year.

Murray M. Varner Memorial Scholarship – Awarded each year to one or more upperclass students from the Eberly College of Business who have completed twenty-seven or more credits and who are permanent residents of Indiana County. The recipients must be academically stable, personable, enthusiastic, and motivated in character.

College of Education; Dr. John Butzow, Dean; 412-357-2482

Scholarships for incoming freshmen:

Carol L. Moorhead Scholarship – This is awarded to an incoming freshman student(s) enrolled in the primary, preferably early childhood, education curriculum.

Ethel L. Morrow Memorial Scholarship – Awarded to an entering freshman enrolled as a full-time student in the College of Education. The student must score 1000 or better on the SAT and be ranked in the top 10 percent of his/her class. The student must demonstrate good character, leadership, and promise for success. Consideration is given to students who demonstrate financial need.

Barbara Thomas Scholarship – Awarded to graduates of Clearfield County, Pennsylvania, high schools who enroll to study Elementary Education. Renewal of the scholarship is contingent upon recipient's maintaining a 2.5 cumulative

QPA each year.

Scholarships for currently enrolled students:

Jemima S. Boyd Scholarship – This scholarship was established from the estate of Grace Noble Lacock. Each year, it is awarded by the College of Education to students who intend to teach in schools in Pennsylvania.

Maude O. Brungard Scholarship – Awarded to Speech-Language Pathology majors. The recipient must be a graduating senior with outstanding academic achievement who will enter IUP's master's degree program in Speech-Language Pathology. The minimum QPA required is 3.0.

Beverly Sue Clark Memorial Scholarship – Awarded to a junior or senior preparing for a career in teaching. Student must be a resident of Pennsylvania with preference given to residents of the following counties: Armstrong, Cambria, Indiana, Jefferson, or Westmoreland and to survivors of casualties of the 1991 Persian Gulf War.

Mary Flegal Harte Scholarship – Scholarships for students who have a cumulative QPA of at least 3.0 and demonstrate a financial need.

McFarland Scholarships – McFarland scholarships are awarded each year to honor upperclass students who have earned more than forty-five but fewer than seventy-five credits at IUP, who have QPAs of at least 3.8, and who have made special contributions to the university and community.

Helen Wood Morris Scholarship – The scholarship was established by Lieutenant Colonel L. M. Morris in memory of his wife, a graduate of the university. Recipients must be majoring in education and rank in the top 10 percent of their class based upon the completion of 60 credit hours of academic work.

Dr. Russel C. Nelson Scholarship – This scholarship is awarded each year to a talented upperclass music education major who is selected by the Music Scholarship Committee.

Felicia G. Renck Scholarship – This scholarship is awarded annually to a graduating senior or master's student in Early Childhood Education who has earned a 3.5 QPA.

College of Fine Arts; Dr. Charels Cullum, Interim Dean; 412-357-2397

Scholarships for incoming freshmen:

Wallis and Janet Braman Music Scholarship – Awarded to an incoming freshman music major whose performing area is one of the following: violin, viola, cello, or double bass. Selection of grantee is made by the string area music department faculty.

Freshman Music Scholarship – Student must be an incoming freshman music major. Awards are based on a performance ability and equally shared among all applied studios (instruments and voice).

Ann M. Hayward Music Scholarship – Awarded to entering freshman vocal majors by recommendation of faculty.

Gloria Bryan Johnson Memorial Scholarship – Awarded to a full-time music student, to an incoming freshman, or to an upperclass cello or bass major by recommendation of faculty.

Orval Kipp Art Scholarship – Awarded to an incoming full-time freshman art major, SAT score of 1000 or above, and portfolio score of 20 or above. Scholarship Committee believes the student has the potential to succeed at IUP both artistically and academically. No financial consideration of need.

Joanne P. Lovette Memorial Fund – Awarded to an incoming freshman, contingent on continuing QPA achievement, who demonstrates outstanding artistic talent, via portfolio review, in the opinion of the Art Department Scholarship committee. Retention of this scholarship is based on maintaining an overall 2.8 QPA and a 3.0 QPA in studio/art

courses.

William P. Moorhead Scholarship – This scholarship is awarded to a student studying organ in the Department of Music. It was established as a memorial to Mrs. William P. Moorhead.

Organ Student Scholarship – Awarded to a student studying organ for credit in the music department but who does not need to be a music major. Student must have a QPA of 3.25.

Evelyn Swauger Memorial Scholarship – Awarded to undergraduate or graduate piano majors in the Department of Music.

Theater-by-the-Grove Freshman Talent Scholarship – Awarded to an incoming freshman Theater major based on audition/interview for students who demonstrate promising talent or design/technical areas.

Scholarships for currently enrolled students:

Anne Agnew Music Scholarship – Awarded to music majors. Preference to piano majors, with secondary preference to any other area within the Music Department.

Robert K. Alico, Jr., Memorial Scholarship – The Alico Scholarship is awarded to a junior art major with a 3.2 QPA or above in the major (3.0 overall average). The student must be a permanent resident of Pennsylvania and demonstrate financial need. The recipient will have completed junior year by spring semester and demonstrate artistic talent.

Lloyd and Libby Bastian Memorial Scholarship – Awarded to a Theater major interested in pursuing a career in costume design and technology. The student must also demonstrate financial need.

M. Vashti Burr Memorial Award – A scholarship is awarded annually to a student who is deemed to be most deserving, having in mind his or her economic need and the excellence of his or her industry and scholarship. This award is given through the generosity of William V. Whittington.

Charles A. Davis Music Endowment – Scholarship is awarded to one or more rising sophomores enrolled in the music department and yet to complete the junior and senior years. Award will continue for two years providing that the awardee earns an overall QPA of 2.8 and a music studies QPA of at least 3.0. The awardee must exhibit outstanding musical skills in a particular musical discipline and contribute to the musical discipline and the university through ensembles, recitals, etc.

Donald G. Eisen Scholarship – Awarded to a Theater major who has demonstrated outstanding achievement in, commitment to, and love of the study of theater as a liberal art. Merit judged in terms of demonstrated accomplishment (including but not limited to coursework) in at least three of the following areas: dramatic literature, theater history, dramatic and theatrical theory, theater criticism, and textual analysis.

Thomas V. Frazier Memorial Scholarship – Scholarship awarded to a second semester junior for the senior year. The award is based on financial need and a "deep interest in theater arts." Student may be a drama student or active in off-stage roles.

H. Eugene Hulbert Music Scholarship – Awarded to a student majoring in either music education, music performance, or liberal arts on the basis of academic excellence, music excellence, and financial need. Completion of four semesters in the music department with a minimum of 12 credit hours each semester is required.

Gloria Bryan Johnson Memorial Scholarship – Awarded to a full-time music student, to an incoming freshman, or to an upperclassman cello or bass major by recommendation of faculty.

Mary Helen Krouse MacDonald Memorial Scholarship – Created to reward exceptionally gifted students who are majoring in Art. The scholarships are awarded to winners of the student entries in the juried art exhibitions held in the

Community Arts Center of Cambria County in Johnstown, Pennsylvania. Awarded to an art student from IUP (freshman-senior) chosen by juror of the show for artistic merit.

Benjamin T. Miller Art Scholarship – Awarded to upper-class (not last-semester senior) Art majors who have completed twenty-nine credits, have a QPA of 3.0 or above, submit one piece of creative/scholarly work with a one-page justification of the selection, and provide one page outlining financial need.

Mary H. Muldowney Music Scholarship – This scholarship was funded by friends of Mary Muldowney, a long-time faculty member and choral director at IUP. It is awarded to a senior Voice major by faculty in the Department of Music.

Organ Music Scholarship – Preference given to undergraduate organ majors within the Department of Music; secondary preference may be given to graduate students or students enrolled in other majors. A required QPA of 3.25. Scholarship recipients must be enrolled in applied organ courses during the semesters to which the scholarship will be applied and be selected by audition performance as determined by the Organ Scholarship Selection Committee.

Organ Student Scholarship – Awarded to a student studying organ for credit in the music department. The student does not need to be a music major. Student must have a QPA of 3.25.

Shelly G. Portman Memorial Scholarship – This scholarship, established by the Portman family, will be awarded each year to juniors excelling in concert dance. Selection will be made by the faculty in the Department of Theater.

Ralph Reynolds Memorial Scholarship – Award recognizes talent in the areas of Art and Art Education. Student must submit portfolio, documentation, and transcripts for consideration.

Ralph Reynolds Memorial Scholarship (Painting) – Pennsylvania residents in the Art or Art Education major. Scholarship is awarded to one or two senior Art majors who are juniors at the time of application. Apply in the spring semester of junior year. Scholarship is awarded on the basis of artistic talent and achievement with an emphasis on painting; a portfolio is required with supportive documentation which must include current academic progress sheet and short biography. Candidates should have completed at least nine credits in painting.

Frank Ross Memorial Scholarship – These scholarships are awarded each year to upperclass students who are deemed worthy by the College of Fine Arts. The awards are presented in memory of a former ceramics faculty member.

Student Art Scholarship Award – Awarded to deserving senior IUP art students due to the efforts of the students themselves.

Evelyn Swauger Memorial Scholarship – Awarded to undergraduate or graduate piano majors in the Department of Music.

College of Health and Human Services; Dr. Harold Wingard, Dean; 412-357-2555

Scholarships for incoming freshmen:

LaVelle Scholarship Fund – Awarded to an entering, full-time freshman for four consecutive years majoring in Hotel, Restaurant, and Institutional Management on the basis of financial need and scholastic ability. An SAT minimum score of 1000 is necessary; an overall QPA of 3.0, at the end of each spring semester, is required to remain eligible.

A. Laura Mateer Scholarship – Awarded to an entering freshman in the top 25 percent of his/her high school class who is majoring in Hotel, Restaurant, and Institutional Management. Student must maintain a 2.5 QPA to retain the scholarship.

McDonald's/Thomas McCormick Memorial Scholarship – Awarded to a graduate of an Indiana County high

school. If student is an incoming freshman, student must be ranked in the top 25 percent of his/her graduating class and be majoring in the Department of Hotel, Restaurant, and Institutional Management. The recipient is selected by members of the department. Maintenance of the scholarship award is based on the student's maintaining a 2.75 QPA based on twenty-eight credits and obtaining a 3.0 QPA at the end of both sophomore and junior years. The student must display satisfactory progress toward a degree in HRIM.

Susan Spurlin Peckman Memorial Scholarship – Granted to an incoming freshman Nursing major who displays financial need and has at least a high school "B" average. Preference will be given to students from Indiana High School, Marion Center High School, or Woodland Hills High School. If no qualified entering freshman students are nominated, the award may be given to an upperclass student, enrolled in the program within the stated geographic area, who meets the initial criteria.

Scholarships for currently enrolled students:

Grace J. Allman Safety Science Scholarship – This scholarship is awarded to a senior with a minimum of a 2.75 QPA. A QPA of 3.0 is required in the following courses: SA301, 303, and 402. The student must be a senior and demonstrate academic achievement and promise for success in the safety sciences field.

Ella C. Bendix Home Economics Loan Fund – Awarded to worthy full-time or part-time students with financial need who are juniors, seniors, or first-year graduate students. Selection is made by the Home Economics Scholarship Committee.

Alexa J. Boyer Emerick Scholarship – Awarded to a deserving and outstanding full-time junior or senior (fifty-seven to ninety credits) enrolled in the nursing program with a QPA of 3.0 (minimum). The student must demonstrate participation in school and/or community activities plus a commitment to serving/assisting others.

Eleanor Gallati Scholarship – Awarded to deserving majors in Home Economics Education and in Child Development/Family Relations.

William G. Gressley Memorial Scholarship – Awarded to a student with a declared major in Hotel, Restaurant, and Institutional Management, twenty-five or more credits, and a QPA of 2.5 (minimum). Student must be an active participant in department activities.

Hoss's Steak and Seafood House Scholarship – The scholarship is awarded each year to students in the Hotel, Restaurant, and Institutional Management department.

Eugene E. Lepley Memorial Scholarship – Awarded to a junior or senior (preferably a senior) with a minimum QPA of 3.0. The student must demonstrate social responsibility by involvement in community/volunteer activities and complete a brief narrative describing future plans and aspirations relative to the general field of health and physical education. Majors in Health and Physical Education and Sport Science are considered.

M. Jane Segar Longenecker Scholarship – Awarded to full-time students who have achieved junior standing and have a minimum 3.5 QPA. Students must be majoring in Home Economics Education or Child Development/Family Relations.

McDonald's/Thomas McCormick Memorial Scholarship – Awarded to a graduate of an Indiana County high school. If student is an incoming freshman, student must be ranked in the top 25 percent of his/her graduating class and be majoring in the Department of Hotel, Restaurant, and Institutional Management. The recipient is selected by members of the department. Maintenance of the scholarship award is based on the student's maintaining a 2.75 QPA based on twenty-eight credits and obtaining a 3.0 QPA at the end of both sophomore and junior years. The student must display satisfactory progress toward a degree in HRIM.

Marian A. Murray Scholarship – Awarded to a graduate student in the field of Nursing. Scholarship based on academic achievement and professional involvement. Selection for the annual award shall be made by the Department of Nursing faculty.

Ethyl V. Oxley, Opal T. Rhodes, and Helen C. Merriman Scholarship – Awarded to students majoring in the Department of Human Development and Environmental Studies.

Pittsburgh Home Economics Teachers Scholarship – Awarded to an undergraduate student majoring in a program in the College of Health and Human Services who graduated from one of the Pittsburgh Public Schools. Preference given to students majoring in Home Economics Education and seniors; the award may also be given to a junior or a sophomore student enrolled in any Human Services major who is deserving both scholastically and financially.

Ella B. Seanor Leadership in Nursing Scholarship – Award presented to graduating senior who has successfully completed the requirements for a degree in Nursing and who has demonstrated exemplary leadership and commitment to the high standards of professional practices in nursing. (3.0 QPA required)

Susan E. Shubra Scholarship – Awarded to a junior or senior having at least one remaining term to be completed and a major in Consumer Affairs, Fashion Merchandising, or Interior Design/Housing within the Department of Human Development and Environmental Studies. Applicants must be of good behavior and demonstrate outstanding achievement in academics and leadership in university/community services. Consideration given to financial need.

Student Awards - Nursing – Awarded to undergraduate or graduate students. Criteria for awards and selection of recipients to be at the discretion of the faculty in the Department of Nursing and Allied Health Professions.

Betty Wood Scholarship – Awarded to a full-time student (junior standing) in Consumer Affairs, Fashion Merchandising, or Interior Design/Housing within the Department of Human Development and Environmental Studies. Student must demonstrate the highest professional manner. Minimum of 3.0 QPA. Students must be of good character and must demonstrate outstanding achievement in academics and leadership in university/community services. Consideration given to financial need.

Ronald and Jean Zucchelli Scholarship – Awarded to an IUP student majoring in physical education. Preference will be given to female students.

College of Humanities and Social Sciences; Dr. Brenda Carter, Dean; 412-357-2480

Scholarships for currently enrolled students:

Mollie E. Bolling Memorial Scholarship – Awarded to a student in the major of Sociology in the junior or senior year (at least fifty-six credits). The student must have an overall QPA of 2.0 and a major QPA of 2.5. Preference is given to African-American male students from single-parent households. If none, consideration is given to African-American females or other deserving students.

Nancy, France Scholarship Fund – Awarded to help students financially who want to study through the academic year, spring semester, or summer study program in Nancy, France.

Isolde A. Henninger Award – Award given to foreign language majors studying French, German, or Spanish. The scholarship is given to students who show great improvement in major subjects from freshman year.

Hunt-Pickering Study Abroad Scholarship – This scholarship makes one award to a student attending the spring semester program in Valladolid, Spain, one award to an IUP student completing the IUP-Mexico summer program in Mexico, and awards to the students in the four-week program in Costa Rica each May. Academic achievement (QPA) will be the primary criterion. In the event of similar candidates, need will be a determining factor.

Dr. Yu-Chen Liu Memorial Endowment – Interest earned on the endowment will be used to sponsor scholarships for Chinese-American students and their travel expenses to and from IUP from the students' point of origin. The Asian Studies Committee will make the selection of the scholarship awardee.

Mexico Study Abroad Scholarship – This scholarship is offered to a student participating in the Mexico Study Abroad summer program.

Esko E. Newhill Award for Excellence – Awarded to a junior Sociology major who shows evidence of interest in world affairs and the community and has demonstrated excellence in scholarship.

John J. Prandy Memorial Scholarship – This scholarship provides support to a worthy and deserving Criminology major who has achieved junior standing (fifty-six to ninety credits) and has expressed interest in pursuing a career in law enforcement. A 3.0 QPA overall is required. The recipient must also demonstrate involvement in community and/or campus activities involving children and their welfare.

David J. Rovnan Memorial Scholarship – Awarded to a journalism major who is an active member of the Penn. Student must submit a letter detailing the contributions he/she has made to the newspaper and complete an interview with the Department of Journalism Scholarship Award Committee.

David A. Schwartz Memorial Journalism Scholarship – This scholarship is established in memory of David Schwartz, a graduate of IUP, by his parents, the Indiana Gazette, and faculty and friends of IUP. The scholarship is available to outstanding students majoring in journalism.

Gregory Spinelli Memorial Scholarship – Awarded to students that show exceptional promise and commitment to a career in the criminal justice system.

Study Abroad - Foreign Language Scholarship – To provide financial scholarship to students participating in a study-abroad experience in any of the foreign language programs offered by IUP.

Valladolid Scholarship – To provide some financial support for expenses such as travel, tuition, or housing for students who are participating in the Valladolid Program and who are attending the University of Valladolid in Mexico.

College of Natural Sciences and Mathematics; Dr. John Eck, Dean; 412-357-2609

Scholarships for incoming freshmen:

Edward N. Brown Memorial Scholarship – Awarded to worthy and deserving students majoring in chemistry with a good academic record that includes a high QPA in chemistry and a high overall QPA.

Natural Sciences and Mathematics Scholarship – Awarded to an entering freshman from an Indiana County high school who is enrolled in the College of Natural Sciences and Mathematics. A minimum SAT score of 1100 and a class rank in the top tenth are required. Renewal of scholarship is contingent on maintaining a 3.0 cumulative QPA each year.

Scholarships for currently enrolled students:

Ida Z. Arms Excellence Scholarship – Awarded to students majoring in Mathematics or Mathematics Education who have demonstrated academic excellence in their study at IUP. Grants are made primarily on the basis of overall academic achievement, including mathematics, to students who have completed at least the sophomore year (fifty-six credit hours or more) and are enrolled at IUP for the succeeding year.

Edward N. Brown Memorial Scholarship – Awarded to worthy and deserving students majoring in Chemistry with a good academic record that includes a high QPA in chemistry and a high overall QPA. Student must have completed at least four semesters of study at IUP, including four semesters of chemistry, and will probably be a senior, or at least a second-semester junior.

Chairman's Scholarship Fund – Awarded to needy students enrolled as Mathematics majors at IUP.

Roy A. Daugherty Scholarship – Scholarships will be given to worthy students majoring in Math Education with preference given to sons and daughters of members of Sigma Phi Epsilon fraternity who attended IUP with Mr.

Daugherty.

William Heard Memorial Scholarship – Established as a memorial by friends and colleagues of William Heard, formerly a professor at IUP, the scholarship is awarded each year to a junior Chemistry major for his/her senior year. The recipient is selected by the Chemistry Department steering committee on the basis of contributions to the department and the university, financial need, academic record, and interview. Applications are available each spring in the Chemistry Department Office.

Dr. Willard W. Hennemann, Jr., Memorial Scholarship – Awarded to an undergraduate student with fifty-seven to ninety credits (junior standing) and a minimum QPA of 3.0 who is enrolled in the Mathematics Education area. Graduate students must be enrolled in the Mathematics for Elementary School Teachers program and enter the program with an undergraduate QPA of 3.0 or higher and/or achieve a minimum QPA of 3.0 after completing a minimum of six hours of graduate work.

Stanley W. Lore Scholarship – Awarded to the highest QPA for junior Psychology majors. The student is selected on QPA, Psychology QPA, and other evidence of outstanding academic work by a committee consisting of three Psychology faculty members.

Ronald L. Marks Scholarship – Awarded to a freshman Chemistry Education major and/or a junior Chemistry Education major. Students must have a 3.0 QPA to be eligible.

Mathematics Graduate Scholarship Fund – Awarded to full-time or part-time students not receiving assistantships.

Arthur G. Morrell Memorial Scholarship – Awarded to a Mathematics major completing the sophomore or junior year at IUP.

PPG Computer Science Scholarship – This PPG Computer Science scholarship is awarded annually to the foreign student with the highest overall QPA who is majoring in Computer Science and entering his/her junior year and has completed at least 9 credit hours of computer science.

Albert R. Pechan Scholarship – This is a scholarship for an outstanding science major selected by the College of Natural Sciences and Mathematics.

Mildred M. Reigh Memorial Scholarship – Awarded to students pursuing a degree in Mathematics Education or Elementary Education with a mathematics concentration. Recipients must have reached a minimum of junior standing (57 to 90 credit hours) and carry at least a 3.0 QPA.

Howard E. Tompkins Scholarship – Awarded to a full-time Computer Science major with the highest overall QPA entering the junior year who has completed at least nine credits of computer science. Must be awarded to a female if only one scholarship is being awarded.

Robert E. Cook Honors College; Dr. Janet Goebel, Director; 412-357-4971 *Scholarships for incoming freshmen:*

ARAMARK Distinguished Scholars Scholarship – Awarded to students entering the Robert E. Cook Honors College based on academic promise.

Anthony and Emma Calvetti Morino Memorial Scholarship – Awarded to students entering the Robert E. Cook Honors College. Preference will be given to students who are working to provide resources for educational pursuits. A minimum QPA of 3.2 is required.

Robert E. Cook Honors College Scholarship – Provides scholarship support to talented undergraduate students enrolled in the Robert E. Cook Honors College at Indiana University of Pennsylvania.

Natalie S. Fassett Scholarship Fund (awarded jointly with the University Scholarship Committee) – Supports the

Foundation Distinguished Scholars program, awarding renewable scholarships to outstanding freshmen. Preference will be given to students who attend Homer Center High School.

Theresa Hart Gramley Memorial Scholarship (awarded jointly with the University Scholarship Committee) – Established by bequest of Mrs. Gramley, a 1927 graduate of Indiana Normal School, this scholarship provides financial assistance to academically promising students.

Earl and Frances Kinney Memorial Trust Scholarship – Awarded to talented undergraduate students at IUP who demonstrate financial need as determined by financial standards used by the University Scholarship Selection Committee.

Kresge Foundation/Cook Honors College Scholarship – Provides scholarship support to talented undergraduate students enrolled in the Robert E. Cook Honors College.

Colonel Leonard A. and Mary D. McQuown Memorial Fund (awarded jointly with the University Scholarship Committee) – Supports the Foundation Distinguished Scholars program, which awards scholarships to outstanding freshmen. The awards may be renewed for four years. Preference will be given to graduates of Punxsutawney High School.

Dr. and Mrs. Arthur W. Phillips Scholarship Fund (awarded jointly with the University Scholarship Committee) – Supports the Foundation Distinguished Scholars program, which awards scholarships to outstanding freshmen. The awards may be for four years. Preference will be given to residents of Butler, Clarion, Forest, Jefferson, Lawrence, Mercer, and Venango counties.

Florence Wallace Scholarship Fund (awarded jointly with the University Scholarship Committee) – Supports the Foundation Distinguished Scholars Program, which awards scholarships to outstanding freshmen. The awards may be renewed for four years.

Board of Governors Scholarships – Up to thirty-five full-tuition scholarships are awarded each year to academically talented minority students who have scored approximately 1000 on the SAT and who are in the top 25 percent of their high school class. The BOG scholarships are renewable for a maximum of eight fall/spring semesters for recipients who maintain a satisfactory QPA.

Foundation for IUP Distinguished Scholars Awards – The Foundation Distinguished Scholars Program was established to honor outstanding students. Candidates must rank in the top tenth of their high school classes and/or score at least 1100 on the SAT.

Miscellaneous Scholarships; Ms. Diane Raybuck, Associate Dean of Admissions; 412-357-2230

Scholarships for incoming freshmen:

Gloria J. Croft Bolinger Memorial Scholarship – Awarded annually to a graduate of Tussey Mountain High School. Recipients are selected by the Tussey Mountain administration and faculty.

Iva Carlson Memorial Scholarship – Awarded to a permanent resident of Warren County, Pa., enrolled in the College of Natural Sciences and Mathematics. Preference given to female graduates of Warren Area High School. Consideration given to financial need. Must attain a 3.0 QPA to maintain scholarship for four years.

Patti Hurley Scholarship – A four-year scholarship is awarded to a graduate of Indiana Area High School attending the university, based upon academic achievement, participation in school activities, and economic need. This memorial scholarship was established by the family and friends of a 1971 graduate of Indiana Area High School who was killed in an automobile accident two weeks after high school graduation.

Natalie S. Fassett Scholarship Fund (awarded jointly with the University Scholarship Committee) – Supports the Foundation Distinguished Scholars program, awarding renewable scholarships to outstanding freshmen. Preference will

be given to students who attend Homer Center High School.

Theresa Hart Gramley Memorial Scholarship (awarded jointly with the University Scholarship Committee) – Established by bequest of Mrs. Gramley, a 1927 graduate of Indiana Normal School, this scholarship provides financial assistance to academically promising students.

Earl and Frances Kinney Memorial Trust Scholarship (awarded jointly with University Scholarship Committee and Honors College) – Awarded to talented undergraduate students at IUP who demonstrate financial need as determined by financial standards used by the University Scholarship Selection Committee.

Kovalchick Scholarship (St. Mary's) – Awarded each year to a graduate of St. Mary's High School who attends IUP. Applications are available in the Guidance Office of St. Mary's High School. Recipient must be in good standing and a Pennsylvania resident.

Thomas and Flora McGrainor Memorial Scholarship – Offered to a student from Dayton (Pa.) high school who is enrolling at IUP. Recipient must demonstrate financial need, a 2.5 cumulative QPA, and involvement in extracurricular activities and/or community services.

John W. McNaul Scholarship – Awarded to a graduating senior from Somerset (Pa.) high school who will be attending IUP as a full-time student and who demonstrates financial need.

Colonel Leonard A. and Mary D. McQuown Memorial Fund (awarded jointly with the University Scholarship Committee) – Supports the Foundation Distinguished Scholars program, which awards scholarships to outstanding freshmen. The awards may be renewed for four years. Preference will be given to graduates of Punxsutawney High School.

Frank E. Moore Endowment – Awarded to a nontraditional incoming freshman who has graduated from an Indiana County high school or who has been a resident of Indiana County for one year. Maintenance of 2.25 QPA overall. Preference will be given to those with children.

Morino Scholarship – Awarded to academically promising and financially deserving undergraduate students. Preference given to students from historically mining communities whose parents or grandparents are employees or retirees or expired while working in the mines; who are in the upper 10 percent of their high school class; who score 1100 on the SAT; and who demonstrate a financial need. Eligibility restricted to graduates of high schools located within Indiana County.

G. William Musser Scholarship – Scholarship is awarded to the most qualified incoming freshman. Student must major in one of the pre-law majors. Renewable if student maintains a 3.0 QPA.

Margaret M. Patton Foundation Scholarship – Established to assist students attending the university who are worthy of and in need of such assistance. Preference will be given to students attending the Armstrong Campus.

Dr. and Mrs. Arthur W. Phillips Scholarship Fund (awarded jointly with the University Scholarship Committee) – Supports the Foundation Distinguished Scholars program, which awards scholarships to outstanding freshmen. The awards may be for four years. Preference will be given to residents of Butler, Clarion, Forest, Jefferson, Lawrence, Mercer, and Venango counties.

William E. Pierce Scholarship – Established to award a one-year grant to the junior ROTC cadet having the highest standing in his/her sophomore ROTC class.

President's/Corrine Menk Wahr Scholarship – A \$1,000 scholarship awarded to entering freshmen who are valedictorians of their high school at the end of their junior year. No application is required.

Carino Queen Evergreen Scholarship – Awarded to a resident of Indiana County and to Indiana County's Queen Evergreen if she attends IUP on a full-time basis.

Joseph W. Serene Memorial Scholarship – Awarded to a graduating senior from Indiana Area High School who has enrolled at IUP, has achieved a good academic standing (3.0 QPA), and is active in school and/or community groups and demonstrates good citizenship.

Martha S. Scheeren Scholarship – Awarded to an IUP student residing in Indiana County between the ages of twenty-three and fifty years who is economically disadvantaged. Preference will be given to graduates of Indiana County high schools and to women. Secondary preference will be given to residents of Armstrong, Cambria, and Jefferson counties.

Sons of Italy Recreative Club, Inc., Scholarships – Scholarships are awarded to graduates of Indiana County schools, with the exception of Homer-Center, who enroll as full-time students at IUP.

Michael J. Supinka, Jr., Memorial Scholarship – Awarded to a full-time entering freshman who is a graduate of Homer Center High School and who demonstrates academic excellence and leadership qualities.

Tomb Family Scholarship Fund – Awarded at the discretion of the president to talented and deserving students.

Vaughn Foundation – Two \$500 scholarships are awarded to incoming freshmen demonstrating academic promise, financial need, and a willingness to give a portion of their time to community service. Students must also participate in men's football, men's basketball, or women's basketball. Preference given to students enrolling in the Eberly College of Business. Renewable for up to four years provided the student maintains good academic standing and athletic eligibility.

Florence Wallace Scholarship Fund (awarded jointly with the University Scholarship Committee) – Supports the Foundation Distinguished Scholars Program, which awards scholarships to outstanding freshmen. The awards may be renewed for four years.

West Branch Area High School Scholarship – Awarded to graduates of West Branch Area High School, Clearfield County (or any named successor created by a consolidation of high schools), who demonstrates financial need and positive academic achievement (minimum 2.5 out of 4.0 cumulative QPA).

Coraopolis Wolves Club Den IX Scholarship – Provides a scholarship to full-time undergraduate students who graduated from Moon, Cornell, or Montour school districts and who are in the upper quarter of their graduating class. Awards may be renewable based upon maintenance of good academic standing and availability of funds.

Board of Governors Scholarships (awarded jointly with Honors College and Office of Admissions) – Up to thirty-five full-tuition scholarships are awarded each year to academically talented minority students who have scored approximately 1000 on the SAT and who are in the top 25 percent of their high school class. The BOG scholarships are renewable for a maximum of eight fall/spring semesters for recipients who maintain a satisfactory QPA.

Foundation for IUP Distinguished Scholars Awards (awarded jointly with University Scholarship Committee and Honors College) – The Foundation Distinguished Scholars Program was established to honor outstanding students. Candidates must rank in the top tenth of their high school classes and/or score at least 1100 on the SAT.

Scholarships for currently enrolled students:

American Association of University Women Scholarship – Awarded annually to nontraditional female residents of Indiana County, based upon financial need and successful completion of at least six credits leading to a degree.

American Field Service (AFS) Scholarship – One full-tuition scholarship will be offered to an AFS student for one year. Letters of application should include a brief description of the student's AFS experience.

APSCUF Scholarship – The IUP APSCUF Scholarships are awarded to students who have earned between twenty-nine and forty-six credits and who have shown involvement in IUP and community services.

Israel and Birdye Brody Scholarship – Scholarships are awarded each year to juniors who have at least a 3.8 average and who have served the university and/or community.

Dr. Howard B. Buterbaugh Scholarship Fund – A gift to the university from Dr. Howard Buterbaugh's estate, the scholarship is to be given to students from Indiana County based on their academic performance.

Clark Scholarship – The Lt. Alpheus Bell Clark Memorial Scholarship was established by Mr. and Mrs. Steele Clark in memory of their son. Scholarships are awarded each year to young men or women who are seniors at the university, who, in the opinion of a committee, best qualify for the honor in terms of academic ability, leadership, and service to the university, with preference going to veterans or sons or daughters of veterans.

Goldstrohm/Citizen's Ambulance Scholarship – Awarded to an employee of Citizen's Ambulance Service, Inc., who is actively enrolled as a full-time or part-time student.

Harrisburg Alumni Chapter of IUP Scholarship Fund – Awarded to a sophomore or junior (twenty-six to ninety credits) with a QPA of 3.0. Preference extended to children of alumni active in Harrisburg and to Pennsylvania residents from Cumberland, Dauphin, or northern York counties. Consideration also given to residents of other counties included in the Harrisburg Alumni Chapter membership, such as Adams, Franklin, Lancaster, Lebanon, and Perry counties.

Kuzneski Family Scholarship – This scholarship is awarded to an IUP student with a declared major in Nursing or Art or participating in intercollegiate football. Preference is given to students graduating from Indiana County high schools.

Edward E. And Cecilia A. Mackey Scholarship – Awarded to students enrolled in the Eberly College of Business with a declared major who have earned at least 48 credits and who have a 3.0 cumulative QPA. First preference given to students who participate in the IUP men's football program and are in good academic standing.

Miss IUP Scholarship – A \$500 scholarship is awarded to the winner of the Miss IUP Pageant for use in the subsequent academic year.

Margaret M. Patton Foundation Scholarship – Established to assist students attending the university who are worthy and in need of such assistance. Preference will be given to students attending the Armstrong Campus.

Lenora Pechan Scholarship – Awarded to ROTC students as recommended by the ROTC staff.

Phi Delta Theta Memorial Scholarship – Established in memory of Randy Colalella and Jeffrey Diez. Funds are awarded to full-time students who are members in good standing of Phi Delta Theta and who have a QPA of at least a 3.0. Selection chosen by the Office of Financial Aid.

William E. Pierce Scholarship Fund – Established to award a one-year grant to the junior ROTC cadet having the highest standing in his/her sophomore ROTC class.

Carino Queen Evergreen Scholarship – Awarded to a resident of Indiana County and to Indiana County's Queen Evergreen if she attends IUP on a full-time basis.

Saco Excelling Greek Scholarship – Scholarships are awarded to outstanding Greek juniors named at the spring Greek awards banquet.

Ethel Seavey Simpson Scholarship – Awarded to academically talented freshmen at IUP who demonstrate financial need. Eligible applicants will be invited to apply.

Senior Class Scholarship Award – A yearly scholarship awarded to a full-time student who has earned seventy-five to ninety credits at the end of the first semester of the junior year, who has a QPA of at least 3.5, and who is involved with campus affairs, organizations, and activities.

Patricia Shields Memorial Scholarship – This \$500 scholarship is awarded each year to a full-time student from Armstrong County who has achieved junior standing and carries at least a 3.0 QPA. Preference may be given to students who originally attended the Armstrong Campus of IUP.

Tomb Family Scholarship Fund – Awarded at the discretion of the president to talented and deserving students.

Weiken and Associates Scholarship – Awards are made to upper-level students (sophomore or junior) in the college on a rotating basis among the departments of the College of Natural Sciences and Mathematics and among the departments of the College of Humanities and Social Sciences who have successfully completed at least thirty credits and have achieved a 2.75 cumulative QPA.

Luhelen Grace Whisner Memorial Scholarship – Awarded to students who demonstrate academic promise, good citizenship, and financial need whereby receiving no other private scholarship support from IUP for academic or athletic performance. Preference is given to students from Westmoreland County.

Zonta Club of Indiana Scholarship for Women – The Zonta Club provides a scholarship for a female IUP student who has earned at least twenty-four academic credits, is twenty-five or older, and is a resident of Indiana County. Eligible students must demonstrate hardship need, exemplify personal character, have a commitment to academic excellence, and demonstrate promise for future success.

Athletic Scholarships; Ms. Frances A. Nee, Athletics; 412-357-2779

Scholarships for incoming freshmen and currently enrolled students:

Bratton-Hathaway Scholarship – Provides scholarship awards to talented and deserving student athletes participating in the football or baseball programs at IUP.

Martha Crooks Douds Scholarship – Designated to support IUP intercollegiate athletics.

Jack Crossan Memorial Scholarship – Awarded to a men's basketball player of character and sound academic standing. Selection is made by the head basketball coach.

Owen J. and Virginia Dougherty Memorial Scholarship – Provides overall team support for the IUP baseball team.

Michael Gendich Endowment for Athletics – Provides scholarships for worthy and deserving student athletes.

S. W. Jack Scholarship Fund – Provides athletic scholarships for the intercollegiate athletic program.

Ward C. and Sally B. Johnson Memorial Scholarship – Scholarships are awarded to one outstanding male and one outstanding female athlete entering their junior year of college or who have successfully completed 60 credit hours. The recipients are selected by the athletic director and the various varsity coaches.

Keystone Rehabilitation System's Men's Basketball Scholarship – Provides scholarship assistance to deserving and needy student athletes on the men's basketball team.

Mr. and Mrs. Joseph Kovalchick Athletic Scholarship – Supports IUP intercollegiate athletics.

Men's Basketball Scholarship – Awarded to student(s) who participate in the IUP men's basketball program.

Regis A. McKnight Memorial Scholarship – The scholarship is awarded to male high school graduates excelling in athletics as a tribute to Regis "Peck" McKnight, who for many years was head basketball coach. Selection of recipients will be made by the athletic director and the head basketball coach.

Louis J. Nocco Scholarship – Provides scholarships to deserving and talented student athletes who participate in the IUP football program.

Ruth Podbielski Scholarship – Awarded to female students who participate in the IUP athletics program.

Willis Pratt Football Scholarship – Established by S&T. These scholarships are awarded to athletes chosen on the basis of scholastic and athletic ability and financial need.

Richard "Moe" Smith Endowment Scholarship – Provides financial aid support to talented and deserving student athletes in the IUP football program.

Sam Smith Football Scholarship – Awarded to a student who participates in the IUP football program.

Cecil and Ann Spadafora Scholarship – Awarded to one football player each year who has graduated from an Indiana County high school, a Mt. Pleasant high school, or a Brentworth high school. The student is selected by a committee consisting of the IUP athletic director, head football coach, and a representative of the Spadafora family. The recipient will be a high school graduate excelling in athletics and a credit to the fund.

Paul E. and Josephine F. Spears Scholarship – Provides scholarship awards to talented and deserving student athletes in the IUP football program.

Gerald E. Stossel Football Scholarship – Provides scholarships to deserving and talented student athletes who participate in the IUP football program.

Student Co-op Women's Athletic Scholarship – Provides support for women's athletics.

Saul and Louise Waxler Memorial Scholarship – Provides scholarships for students participating in the IUP football program.

Women's Basketball Scholarships – Provides athletic scholarships for the women's basketball program. Funds will be used to provide deserving student athletes with financial assistance.

School of Continuing Education; Dr. Nicholas Kolb, Dean; 412- 357-2209

Scholarship for a currently enrolled student:

Continuing Education Part-time Scholarship – Awarded to part-time nontraditional students admitted to or enrolled in degree-seeking programs in the School of Continuing Education. Applications are available in the Financial Aid Office and the Part-time Studies Program Office two months before the beginning of each semester.

Graduate School; Dr. David Lynch, Dean; 412- 357-2244

Scholarship information is found in the Graduate School catalog, which can be obtained in Stright Hall.

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Finances

Other Resources

Athletic Grants-in-Aid - IUP participates in intercollegiate athletics as a Division II institution and awards Athletic Grants-in-Aid in accordance with NCAA rules and regulations. Interested students should contact the Athletic Director, Memorial Field House, IUP, Indiana, PA 15705.

Residence Assistants - Upperclass students and freshmen at the end of their first year may apply to become resident assistants at IUP. Students earn a room and board waiver, as well as a small stipend, by working as resident assistants in IUP residence halls. Application timetables and deadlines are advertised in *The Penn* and posted in the residence halls and other spots around campus. The application process requires references and individual and group interviews and participation in a semester-long training program prior to selection. Resident assistants are selected on the basis of leadership and interpersonal skills and the willingness and ability to perform as role models. Resident assistants must have and maintain a 2.2 quality-point average. For further information, please contact present resident assistants or residence directors or the Office of Housing and Residence Life, G14 Sutton Hall, IUP, Indiana, PA 15705.

Private Scholarships - Various service clubs, organizations, churches, schools, and industries offer scholarships to students. High school guidance offices, libraries, and hometown newspapers are often excellent sources for information concerning private scholarships.

ROTC Scholarships - Two- and three-year scholarships are available to both male and female students who are enrolled in the Reserve Officer Training Corps program. The scholarships pay for tuition, fees, and books, plus \$150 per month for ten months per school year. Interested students may obtain applications and criteria information by contacting the ROTC department in Pierce Hall at IUP.

Office of Vocational Rehabilitation Assistance (OVR) - Students who have physical or learning handicaps may receive educational benefits through the Office of Vocational Rehabilitation. In order to be eligible, students must satisfy the physical and financial requirements of the agency. For further information regarding OVR, students should contact their county office of vocational rehabilitation.

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Finances

Veterans Benefits

In addition to regular sources of financial aid, veterans and dependents of veterans may be eligible for V.A. benefits. For further information, veterans are urged to contact the Veterans Counselor, 308 Pratt Hall, IUP, Indiana, PA 15705, 412-357-3009.

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Finances

Pennsylvania National Guard Educational Assistance Program (EAP)

The Educational Assistance Program has been established for members of the Pennsylvania National Guard. Students who make a commitment to serve in the Pennsylvania National Guard for six years may be eligible to receive a grant on a full- or part-time basis. If a student fails to fulfill his/her service commitment, any EAP grants which were previously received will be converted to loans and must be repaid with a seven-percent fixed annual interest rate. Applications and information are available from the individual's unit of assignment, the recruiting officer, or the Pennsylvania National Guard at 717-861-8530.

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Finances

Financial Aid Sufficient Progress Policy

In order to receive Title IV Federal Student Assistance, students must maintain satisfactory academic progress in their course of study. Students must be in compliance with both the university's Academic Standards Policy and the Financial Aid Sufficient Progress Policy in order to demonstrate satisfactory progress.

The Title IV Federal Student Assistance programs include the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Perkins Loan, Federal Work Study Program, Federal Stafford Loan, and Federal PLUS Loan.

A student who meets the standard of academic good standing of the Academic Standards Policy but who does not meet the standard of sufficient quantitative progress may continue in university registration but without financial aid eligibility for the federal Title IV aid programs.

A full statement of requirements for Satisfactory Academic Progress for Title IV Federal Student Assistance is available through the Financial Aid Office.

Title IV Financial Aid Sufficient Progress Policy The Financial Aid Sufficient Progress Policy applies to undergraduate and graduate students enrolled in the university.

A. Sufficient Progress: To be in good standing on a sufficient progress basis, a student must have earned at least 75 percent of the cumulative number of registered credits at IUP.

"Registered credits" is the number of credits for which a student is enrolled at the end of the Drop/Add period (for a student who was originally registered and charged at full-time status, and who reduces during Drop/Add to part-time status, the registered credits will be calculated as twelve).

Each student will be measured for sufficient progress annually after fall grade processing. This evaluation will determine if the student has a sufficient percentage of credits earned in order to be eligible for Title IV funding for the next financial aid award year (July 1 through June 30).

Students will be notified of their financial aid suspension status when a completed Free Application for Federal Student Aid (FAFSA) is on file in the Financial Aid Office.

B. Financial Aid Suspension: If a student does not meet the sufficient percent of progress evaluation after two consecutive annual reviews, then all Title IV aid for that student will be suspended beginning with the next financial aid award year (July 1 through June 30).

A student who is in this financial aid suspension status, however, will also be reviewed at the end of the spring semester and summer terms in order to evaluate whether or not the percent of progress has been met through additional coursework. If this improvement to 75 percent of progress is achieved, then the student's Title IV financial aid suspension will be rescinded beginning with the next term of enrollment.

C. Appeal Process: For students who have experienced unusual circumstances which have led to a lack of sufficient

percent of progress, such as medical emergencies or death of a family member, a written appeal may be submitted to the Financial Aid Eligibility Review Board for consideration of reinstatement of Title IV aid eligibility.

A student who would like to appeal his Title IV financial aid suspension for the next financial aid award year must submit a written appeal to the Financial Aid Eligibility Review Board. This written appeal must specifically outline the reason(s) for the percent of progress deficiency and how the student will make up this deficiency. For students who do not appeal for fall review, or who are denied an appeal for the fall semester, an appeal for reinstatement of Title IV aid for the spring term will be accepted for review.

After reviewing the written appeal of a student in Financial Aid Suspension, the Financial Aid Eligibility Review Board may decide to reinstate Title IV financial aid eligibility for specific periods of the next financial aid award year. All appeal letters will be answered in writing by the Financial Aid Eligibility Review Board as to the approval or denial of the requested financial aid reinstatement.

D. Reinstatement of Title IV Aid Eligibility: For a student who has Satisfactory Academic Progress deficiency, one of the following must occur in order for that student to receive Title IV assistance:

1. The student can reestablish eligibility for Title IV assistance by meeting the minimum requirements for Satisfactory Academic Progress.
2. For a student who has not met the minimum criteria for Satisfactory Academic Progress due to unusual or mitigating circumstances and has filed an appeal(s) which has granted the student continuance of financial aid eligibility, Title IV aid funds may be reinstated.

E. Summer Sessions: Summer session attendance may permit the student to enhance satisfactory academic progress through additional coursework. For this reason, all students who lack sufficient progress will be permitted to receive Title IV financial aid funds during this period of enrollment, providing that their GPA is at least a 1.5 overall. Students who have a GPA of less than 1.5 must meet with their associate/assistant academic dean in order to discuss an appropriate "academic action plan." Financial aid eligibility for summer sessions will be reinstated once documentation of this discussion is received in the Financial Aid Office.

F. Time Frame for Degree Completion: All students must complete their degree requirements within an established time frame. Since enrollment status may vary from semester to semester, the maximum time frame for degree completion is measured in terms of credits attempted at IUP.

Under normal circumstances, an undergraduate student should complete the requirements for a bachelor's degree at the point of having 165 registered credits at IUP. Since 75 percent of the registered credits must be earned in order to be maintaining Satisfactory Academic Progress, 124 credits (the number generally required for graduation) would be earned at the point of having 165 registered credits.

For majors with graduation requirements in excess of 124 credits, the maximum number of registered credits would increase proportionally. For example, for degrees that require 130 credits, the maximum number of registered credits at IUP is 173 credits.

Students who exceed these credit guidelines due to loss of transfer credits, change of major, or double majors will be screened by the Financial Aid Eligibility Review Board for continuance.

G. Treatment of Audits, Incompletes, and Other Grades: In order that a student fully understands how various grades and enrollments impact upon the calculation of Satisfactory Academic Progress, the following information is provided:

1. **Audits and "S" and "U" Grades:** Because course audits and "S" and "U" grades carry no credits, they are not reviewed or counted for sufficient progress purposes.
2. **Incompletes:** Designations of "I," "L," "R," and "*" are treated as credits attempted/zero credits earned/no effect on QPA. However, these designations are treated as noncompleted credits and have an impact in the calculation of the percent of progress measure. (Note: The "*" is an administrative symbol indicating that a grade was not

- submitted at the time of grade processing.)
3. **"F" Repeat with Replacement:** An "F" repeat with replacement is treated as credits attempted/credits earned/with the quality points of the new grade replacing the 0.00 QP of the original "F" grade. An "F" repeat has a positive effect on the QPA and the percent of progress even though it represents an additional number of credits attempted in regard to the percent of progress measure.
 4. **"D" Repeat with Replacement:** Repeated classes that are "D" replacements to a student's record are treated as credits attempted/zero credits earned/with the quality points of the new grade replacing the 1.00 QP of the "D" grade. A "D" repeat with replacement may improve a student's QPA but represents an additional number of credits attempted in regard to the percent of progress measure.
 5. **Repeats with Averaging:** Courses that are repeated with averaging count as credits attempted/credits earned/with the quality points for the class averaged into the QPA. The maximum time frame for degree completion may be impacted by repeat with averaging classes.
 6. **Withdrawals:** Designations of "W" and "Q" are treated as credits attempted/zero credits earned/no effect on QPA. Any type of "W" designation is treated as noncompleted credits in the calculation of the student's percent of progress standing.
 7. **Pass/Fail Grades:** Pass grades are treated as registered credits/credits earned/no effect on QPA. Fail grades are treated as registered credits/zero credits earned/with zero QP averaged into the calculation of QPA.
 8. **Noncredit Courses:** Noncredit classes, such as those with Continuing Education Units (CEUs), are not used in measuring sufficient progress, since these classes cannot be applied towards degree requirements and no financial aid may be received for enrollment.
 9. **Institutional Credits:** Institutional credits are counted as registered credits/credits completed. The QP for the course is not averaged into the student's overall QPA.
 10. **Canceled Semester:** All credits for which a grade of "C" or better is earned in that canceled semester are counted as credits attempted/credits earned.
 11. **Fresh Start Program:** Students who are readmitted under the Fresh Start Program will have their progress measured from their first semester of readmission without regard to prior enrollment.

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Finances

Payment of Financial Aid

The following financial aid programs can be deducted from your university bill:

Federal Stafford Loan
Federal PLUS Loan
Federal Perkins Loan
Federal Pell Grant
Federal Supplemental Educational Opportunity Grant
Pennsylvania State Grant
IUP scholarships

Federal Work Study earnings are paid directly to the student every other week and thus are not used for billing purposes.

All other financial aid is paid directly to the student's account. If a credit balance exists after satisfying all IUP charges, then excess funds will be refunded to the student for other educational expenses.

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Student Programs and Services

The Advising and Testing Center

The Advising and Testing Center provides a variety of services to IUP students and faculty. It runs the summer orientation program; offers career planning classes and computer-assisted career counseling to undecided majors; co-conducts registration for January freshmen and branch campus students; processes undergraduate total university withdrawals; serves the needs of students with disabilities; and assists in providing advising information to students and advisors. Its Disability Support Services component is responsible for ensuring IUP program access compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. The Advising and Testing Center may be contacted at 412-357-4067 (V/TD) (106 Pratt Hall) for further information.

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Student Programs and Services

Athletics

Frank J. Cignetti, Director;

Frank J. Condino, Associate Director;

Frances A. Nee, Associate Director;

Erika Renwick, Business and Compliance Officer

Head Coaches:

Tom Kennedy, Baseball

Gary Edwards, Men's Basketball

Sandy Thomas, Women's Basketball

Ed Fry, Men's and Women's Cross Country

Frank Cignetti, Football

Kofie Montgomery, Women's Field Hockey

Fred Joseph, Men's Golf

Joanna Parrett, Women's Gymnastics

Brian Lenosky, Women's Soccer

Sue Snyder, Women's Softball

Peter Ward, Men's and Women's Swimming

Jackie Albenze, Women's Tennis

Ed Fry, Men's and Women's Track and Field

Lori Duncan, Women's Volleyball

Student Programs and Services

Varsity Sports

The university's men's and women's athletic teams compete at the Division II level of the National Collegiate Athletic Association and in the Pennsylvania State Athletic Conference.

Men's sports offered in the fall include cross country and football. The winter sports include basketball and swimming. The spring sports are track and field, golf, and baseball.

Women's fall sports are tennis, cross country, gymnastics, soccer, volleyball, and field hockey. In the winter, the sports of basketball and swimming are offered. Spring sports include softball and track and field.

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Student Programs and Services

Intramurals

A well-organized and varied program of intramural sports and athletic activities is conducted for both men and women on a coeducational basis. Intramural handbooks are available from the Intramural Director, Room 101, Memorial Field House.

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Student Programs and Services

Career Services

Career services are available to students and alumni, and career counseling is provided to students of all class levels as well as to alumni. In addition to career counseling, the primary functions of the office are to arrange for campus interviews, prepare a current file of job opportunities, maintain an extensive library of occupational information, conduct follow-up studies of graduates, and provide general assistance in the career planning and job-seeking process.

The Office of Career Services also receives and makes available to graduates and undergraduates information concerning summer employment.

Positions are not guaranteed by the university, but IUP's record of placement is one of the very best in Pennsylvania.

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Student Programs and Services

Career Exploration/Undecided Majors

Students with undecided majors are encouraged to explore options for majors as early as possible while at IUP; to delay doing so may delay graduation. Students desiring to explore majors may take a one-credit course, [ED170: Career Exploration](#), taught by the Advising and Testing Center, or use the Career Exploration Center (CEC), 108 Pratt Hall. The CEC is open afternoons during the week. Appointments may be made by calling 412-357-5701.

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Student Programs and Services

Counseling and Student Development Center

The Counseling and Student Development Center is composed of two parts: counseling services and student development programs.

The counseling services faculty members are psychologists who are assisted by advanced graduate students from the doctoral program in clinical psychology. These professionals facilitate the personal and emotional growth of students by offering confidential counseling and consultation on an individual and small-group basis. Beyond the Health Services fee, additional fees are not charged for counseling services.

Student Development Programs is staffed by one faculty member, the director, and a team of graduate students in the Student Affairs in Higher Education Program. Together they provide the following programs: summer orientation for parents of incoming freshmen, orientation for entering students immediately prior to the beginning of classes, the Six O'clock Series, and various research projects regarding student opinions and/or satisfaction.

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Student Programs and Services

Health Services

The University Health Service operates an outpatient clinic and provides routine health care to students while classes are in session. The outpatient clinic is staffed with physicians, nurse practitioners, nurses, and educators. For emergency care of students when the Health Center is closed, the local hospital emergency room is available. The university has a contract to cover the cost of transporting a student to the local hospital for an emergency, if the student's health insurance policy does not include coverage of ambulance services.

In addition to primary medical care including minor surgery, some laboratory tests, and allergy injections, the University Health Service offers a self-care cold clinic and programs in chemical health, health education, wellness, and nutrition counseling. Free transportation to area medical facilities is available.

Students pay a per-semester mandatory student health fee which entitles them to unlimited visits at the Health Center.

Since Fall, 1991, IUP has required documentation of dates of immunizations from new students for the following vaccines: measles, mumps, rubella, tetanus toxoid-diphtheria, and polio. Individuals born after 1956 should receive a second measles immunization prior to entering college. It has always been important to update diphtheria and tetanus immunizations every ten years. The documentation must be included on the Student Health Form and can take the form of

1. dates of vaccinations by the health care provider who gave them or
2. date of illness with the disease diagnosed by a physician or
3. serum antibody level as determined by a blood test

Students will receive a copy of the *Student Health Form* from the Health Service after they receive notification of admission to IUP. The form must be returned to the University Health Services before starting classes.

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Student Programs and Services

Services for Students with Disabilities

Disability Support Services (a unit of the Advising and Testing Center) is the primary agent for the provision of access for IUP students with physical and learning disabilities. Faculty and staff within the office serve to ensure IUP's program access compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. Students with disabilities are urged to register with the office. Services provided include, but are not limited to, early registration; assistance in locating accessible housing; equipment loan; test proctoring and reading; notetaking; recording of books; NCR paper; liaison with faculty, OVR, and BVS; and general advising and counseling. Further information may be obtained in 106 Pratt Hall or by calling (412) 357-4067 (V/TD).

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Student Programs and Services

Speech and Hearing Clinic

The Speech and Hearing Clinic, located in Davis Hall, offers diagnosis of speech problems, hearing tests and evaluations, and a regular program of therapy. The clinic also administers the speech clearance for teacher education programs.

These services are made available without charge to students regularly enrolled at the university to give the necessary assistance to alleviate deficiencies which would interfere with successful performance and progress in the university and in future work. Students are encouraged to use the facilities provided for them and may of their own initiative come to the clinic for help, or they may be referred by any faculty member or university official.

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Student Programs and Services

Student Health Insurance

The university does not sponsor a group student health insurance plan. Students are encouraged to obtain private insurance to cover the costs of hospital-related expenses. The University Health Service does not bill insurance companies for services. However, students receive a copy of each visit which can be used if the individual chooses to bill his/her insurance company directly.

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Student Programs and Services

Residence Life

IUP is a residential campus. Its fourteen residence halls and two apartment buildings are supervised by professional residence directors with backgrounds in student development or counseling or by graduate residence directors enrolled in the Student Affairs in Higher Education graduate program. Responsibilities include administrative functions of the building, programming, and policy enforcement. Each residence hall also has undergraduate resident assistants (RAs) who are responsible for helping students, planning programs, carrying out administrative tasks, and providing leadership for the development of a community among the approximately thirty students living in their individual section of the residence hall. The university's two apartment buildings are staffed with a professional residence director and student managers whose functions are similar to those of a resident assistant.

It is the policy of IUP to offer full, equal, and nondiscriminatory assistance to all students without regard to their race, color, religion, national origin, sex, ancestry, sexual orientation, or physical ability in both the placement in university housing and the furnishing of facilities and services in relation to that housing.

Specific programs and services offered within the residence halls provide a residential program which supports the academic mission of the university and fosters the development of a community in which the rights and responsibilities of each individual are clearly defined and respected. Respect for the learning process as well as respect for self, others, and property are strongly emphasized. Students are encouraged to question and explore increasingly complex intellectual and personal challenges in their efforts to give meaning and direction to their lives. Staff members actively provide support and challenge students as they assume ownership and accept responsibility for their actions and important life decisions. The residence halls reflect the daily challenges of what it is like to live in any community. It is the intention of the Office of Housing and Residence Life staff to teach students those skills which prepare them to be responsible community members so that when they leave the university, they will be contributing and productive citizens in the larger community in which they live.

Because residence hall living is seen as a positive educational experience, students are encouraged to live on campus unless they are commuting from home. In an effort to make residence hall living more responsive to individual needs, the university offers two living arrangements: single sex and coed. Students should consider these options carefully and select the one in which they would feel most comfortable.

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Student Programs and Services

Residence Hall Rooms

Student accommodations are based on double occupancy. Furnishings include beds, mattresses, desks, chairs, mirrors, dressers, cable TV, local and long-distance telephone service, and data line capabilities. Students should bring their own blankets, bedspreads, towels, study lamps, and mattress pads.

All IUP residence halls are equipped with study lounges, recreational equipment, laundry facilities, and locked mailboxes. In addition, computer terminals and other specialized equipment are located within each area for student use. Residence halls are locked twenty-four hours a day, and each resident's I-card is programmed to provide access to his/her hall.

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Student Programs and Services

Refrigerators/Microfridges

Residents can rent refrigerators or microfridges (an appliance which has a microwave, refrigerator, and freezer combined into one unit) for their rooms. Students benefit directly from this program, since profits are used to upgrade special facilities and furnishings in the residence halls. Residents can also use their own refrigerators as long as the unit does not draw more than three amps of electrical current and occupy more than 2.4 cubic feet of space.

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Student Programs and Services

Residence Apartments

IUP's two apartment buildings provide single student housing in an apartment-style setting. The university provides cable TV, telephone service, data lines, stove, refrigerator, kitchen table and chairs, beds, dressers, and living room furniture in each apartment.

Rooms/apartments are available to both undergraduate and graduate students enrolled at IUP. Each year the university reviews its housing policies and revises them according to needs for the following year. The Office of Housing and Residence Life is also responsible for dining service and providing information and services related to off-campus housing. The Office of Housing and Residence Life is located in G14 Sutton Hall, 357-2696.

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Student Programs and Services

Telephone Service

Local and long-distance telephone service is provided for each residence hall room and apartment. Students must, however, provide their own touch-tone telephones.

AT&T College and University Services (ACUS) provides long-distance service to residence hall rooms and apartments at a reduced rate from the AT&T standard. Residents are issued Personal Security Codes to gain access to the ACUS system. Each month individual student bills for toll calls and telegram charges are mailed directly to the student. There is a \$150 credit limit on long-distance calls to assist students in managing their telephone budgets.

The university has contracted with Bell Atlantic for \$4 worth of local calling message units each month. Students who make local calls in excess of the \$4 limit will receive bills from Bell Atlantic for the balance.

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Student Programs and Services

Cable Television and Data Lines

IUP has installed a fiberoptic network which makes cable TV and data lines available in student rooms.

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Student Programs and Services

Insurance for Personal Belongings

Students are encouraged to carry insurance that covers the loss or theft of valuables while residing in residence hall or apartment housing. Students are also advised to determine coverage available through their parents' homeowners policy and consider a rider if necessary to provide the appropriate coverage while at the university or to consider obtaining property insurance through an independent insurance carrier. The university does not assume responsibility for loss to students' belongings.

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Student Programs and Services

Automobiles

Students, faculty, and staff members who park vehicles in campus parking areas must register their vehicles with the Campus Police Office. Resident students will be issued parking permits for the following reasons: medical necessity, student teaching, or other academic need for a vehicle. A written application must be submitted to and approved by the Parking Authority Review Board. Parking will be available to resident students not meeting the aforementioned criteria, for a fee, to park in the Robertshaw lot. The Campus Police Office is located in Sutton Hall and can be contacted for information on parking as well as copies of the current rules and regulations.

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Student Programs and Services

Residence Hall Application

First-year and transfer students will be offered residence hall contracts as soon as they remit the \$75 tuition prepayment required to secure a place in the incoming class. The contract should be reviewed carefully and returned with an \$80 housing prepayment. Rooms will be assigned as contracts are received. Students will be notified of housing assignments after July 15.

Continuing students may contract for university housing for the following academic year according to the process published and posted in January.

Students being readmitted or returning from student teaching or study abroad programs should contact the Office of Housing and Residence Life for a contract.

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Student Programs and Services

Dining Services

IUP offers twelve meal plans, eight (A through H) of which are available to residence hall students. Refer to the Finance section for the respective meal fees.

Plan A	Unlimited access to Foster and Folger Halls only
Plan B	19 meals a week + \$50 in Flex money*
Plan C	19 meals a week
Plan D	Any 240 meals a semester
Plan E	Any 14 meals a week + \$100 in Flex money
Plan F	Any 14 meals a week
Plan G	Any 165 meals a semester
Plan H	Any 10 meals a week + \$100 in Flex money
Plan I	Any 10 meals a week
Plan J	Any 75 meals a semester
Plan K	Any 5 meals a week + \$100 in Flex money
Plan L	Any 5 meals a week

Meals provided through these plans are for the use of the contract holder only.

*Flex money can be carried from fall to spring semester; however, any portion not used by the end of the spring semester **will be forfeited**. Flex may be used for guests.

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Student Programs and Services

Learning Center/Act 101

Carmy G. Carranza, Director and Chairperson; S. Dean, S. Ender, Green, Hrabovsky, Jenkins, Lipsky, Wilkie, Winstead

The Learning Center, a unit of the Student Affairs Division, provides various academic support services. Courses are offered which develop learning skills to enhance academic success. Courses in two levels of remedial mathematics (LC090, LC095) and two courses in reading (LC070, LC075) are offered for institutional credit. Institutional credit counts in determining full-time enrollment status but not in determining credits applicable for degree eligibility at graduation.

Learning Center faculty members also offer three one-credit courses in Educational Planning (LC150), Learning Strategies (LC160), and Career Exploration (LC170).

The Learning Center provides educational support services for all IUP students in the areas of reading, writing, mathematics, biological and physical sciences, foreign languages, social sciences, study skills, and related areas. These services are provided by both professional and undergraduate paraprofessional staff. Students are encouraged to participate in a broad array of program services including one-to-one and group tutorials, workshops, and formal classes provided by a trained staff of undergraduate paraprofessionals. These services are available in most content areas, as well as in general study skills.

The main Learning Center office is located in 202 Pratt Hall. Further information can be obtained by calling 357-2729.

The Act 101 Program, created as a result of the Pennsylvania Higher Education Equal Opportunity Act 101 in 1971 by the legislature of the commonwealth, focuses on servicing IUP students in order to make the ideal of "equal educational opportunity" a reality for all qualified students. All students matriculating through the Learning Center, including those eligible for services under Act 101, receive a full program of freshman-year courses and advisement, including assistance in the areas of academic tutoring, career counseling, financial aid information, personal counseling, academic advising related to curriculum concerns, the selection of an appropriate major, and course scheduling. The main Act 101 office is located in 202 Pratt Hall. Further information can be obtained by calling 357-2729.

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Student Programs and Services

New Student Orientation

IUP offers a two-part orientation program for all new students. Freshmen are expected to participate in both of the programs, as they are intended to provide information and programs which are designed to insure a successful first-year experience.

Summer Orientation: The preregistration placement testing, advising, and course selection program occurs during the summer immediately preceding students' matriculation on campus. This experience is designed to assess academic readiness for courses integral to the IUP curriculum, including English, mathematics, and foreign languages. Students admitted to the Indiana campus, Honors College, or the Learning Center program participate in an overnight, two-day experience which includes testing, academic advising, and orientation to university curricular requirements and cocurricular opportunities. Students who are admitted as branch campus freshmen participate in a one-day program. Concurrent parent orientation programs are offered.

Fall Orientation: Fall Orientation occurs as students move onto campus immediately prior to the beginning of fall classes. Programs and activities are designed to assure a smooth transition from the home environment to IUP's campus community.

IUP views this two-part orientation as unique and extremely important to freshman retention and satisfaction with the university. The freshman year is critical in regard to academic success. During this time, students must simultaneously develop academic competence in the college curriculum and adjust to the personal decision-making process college life affords. Each of the programs is designed to assist in this important college adjustment process. Freshmen are expected to participate fully in this two-part program.

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Student Programs and Services

Guidelines for Student Conduct

IUP is an academic community within the society at large. As a community, it has formulated a code of standards and expectations which the university considers to be consistent with its purpose as an educational institution. IUP reaffirms the principle of students' freedom coupled with an acceptance of full responsibility for one's behavior and the consequences of such behavior. As a member of the academic community and of the larger society, a student retains the rights, protections, guarantees, and responsibilities which are held by all citizens.

The judicial system of IUP exists to review all alleged academic violations as well as violations of university regulations and/or federal, state, and local ordinances. The primary intent of this educational system is to create a positive behavioral change in the students while also protecting the rights of the members of the university community. The system will hold the students accountable for their actions when regulations or statutes have been violated. A complete statement of regulations is available in the student handbook.

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Student Programs and Services

Religious Life

The religious life of students is cared for through the activities of some twelve organizations which compose the IUP Interfaith Council. Two of these, the Newman Center and the Lutheran Campus Center, maintain private facilities near the campus. Others affiliate with and meet in local churches for worship and meetings.

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Student Programs and Services

Residence Hall Association

The Residence Hall Association (RHA) represents all students living in university residence halls. The executive body of RHA is composed of elected representatives from each residence hall. The purpose of RHA is to provide educational, social, and community service programs for residents; to collect information on various aspects of residence hall life; and to assist in formulating housing policies and procedures. All residence hall students are encouraged to participate in RHA. Inquire at your residence hall office for involvement opportunities.

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Student Programs and Services

Student Activities and Organizations

As participating members of the IUP community, students occupy a responsible role in governance of the campus. Since a valuable part of education lies in participation in groups where experience in leadership, social and community responsibility, intellectual curiosity, and religious interests can be met, participation in varied organizations is available and encouraged.

There are currently more than 180 active student organizations at IUP advised by faculty or staff selected by the students. Students are also encouraged to initiate and support new groups which reflect interests not represented by existing organizations.

Under the supervision of the Office of Student Activities and Organizations and funded for the most part by the Student Cooperative Association, many activities are orchestrated by students and offer entertainment and cultural programs for the entire university community. These activities provide a significant opportunity for students to become more involved with their campus as well as to experience the growth and personal development that involvement provides.

Organizations and activities sponsoring many of IUP events include The Entertainment Network (TEN), Artist Series, African American Cultural Center, Black Emphasis Committee, Ideas and Issues Series, Summer Activities, and the University Concert Committee. Participation in these and other groups is strongly encouraged.

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Student Programs and Services

Student Congress

The Student Congress is the representative and recognized voice of IUP's student body. The Student Congress was created in the spring of 1989 to be a unified voice in a bicameral (two-house) arrangement. It is led by a president and a vice president elected at-large in a spring general election. The primary responsibility of the Student Congress House lies with the student members of various university advisory bodies, including the Student Cooperative Association Finance Committee, which allocates \$300,000 in support of university activities. Each member of the Student Congress Senate serves as a representative on the University Senate, the institution's chief governing body. The Student Congress meets biweekly. Every student enrolled at IUP is considered a member of the SC, and input is always sought and welcome.

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Student Programs and Services

Student Cooperative Association

The Student Cooperative Association has played an extremely broad role in the cocurricular life of the university for more than sixty years. All students, faculty, and staff who pay the Activity Fee are members of the association. Virtually all campuswide activities outside the instructional program are sponsored wholly or in part by the association.

The Activity Fee is the chief source of income for the association's programs. The student's I-Card will admit him/her free of charge or at a reduced fee to university social, cultural, and athletic events. Other income for the association comes from the profits of the Co-op Store and income from events sponsored by the association.

The Student Cooperative Association operates the Hadley Union Building, which houses the Co-op Store, and the Co-op Recreational Park. The Hadley Union Building, built by association members through the Activity Fee, offers many facilities for use by the university community.

The Co-op Recreational Park comprises 270 acres of wooded hillsides and fields. Included are a lodge building which will accommodate groups of up to two hundred people, a ski hut, an eighteen-station exercise course, cross-country skiing and hiking trails, picnic shelter, archery range, and two softball fields.

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Student Programs and Services

Student Publications

The Penn, IUP's campus newspaper, is published three times a week during the fall and spring semesters by students wishing to gain practical newspaper experience. Interested students are advised to attend organizational meetings held in the beginning of each semester.

The Oak is the university yearbook, a pictorial and written review of the year's activities. Subscriptions may be purchased in the fall or early in the spring semester. *The Penn* will carry notices of subscription drives. Applications for staff positions may be obtained from *The Oak* office or from the advisor.

The Source (the student handbook) is distributed to all students free of charge. It includes rules and regulations, the extracurricular program, and general information of interest to students.

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Student Programs and Services

Veterans

The Veterans Affairs Office certifies enrollment for undergraduate and graduate students who may be eligible for veterans assistance.

Veterans, reservists, and children of deceased or disabled veterans should contact the Veterans Affairs Office prior to enrollment.

Veterans must submit:

1. Application for Benefits (VA Form 1990)
2. Certified DD214

Reservists must submit:

1. Application for Benefits (VA Form 1990)
2. Notice of Basic Eligibility (DD2384)

Children of a deceased or disabled veteran whose death or injury was due to service-related causes may be eligible for educational assistance from the federal government under Law 634 (Dependents Educational Assistance Act).

Immediately upon acceptance to IUP, men and women who qualify for such assistance should contact the veterans counselor and submit:

1. The Eligible Veteran DD214
2. Survivors Education Form 22-5490
3. Application for Benefits (VA Form 1990)

A veteran receiving VA benefits must request a change in curriculum clearance from the veterans counselor before changing curriculum. Twelve credit hours are required to be considered a full-time undergraduate student by the Veterans Administration. The minimum full-time requirement for a graduate student is 9 credit hours.

The Veterans Affairs Office provides many other services to veterans. These include academic support, tutoring, housing assistance, financial aid, and general information. The Veterans Affairs Office is located in 302N Pratt Hall. For information on forms, please call 412-357-3009. The Federal Veterans Office telephone number is 800-827-1000.

Student Programs and Services

Post Office

The University Post Office is located on the ground floor of Folger Hall, at the corner of Pratt Drive and Maple Street. All United States and campus mail is picked up and delivered daily to administrative offices and residence halls from this location. As it is a contract station of the Indiana, Pennsylvania, post office, the University Post Office also provides a window service for university personnel for all postal services including box rentals.

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Academic Policies

Grades and Quality Points

In the grading system, the following grades are used in reporting the standing of students at the end of each semester or session:

Grade	Description	Quality Points
A	Excellent	4 quality points/semester hour
B	Good	3 quality points/semester hour
C	Average	2 quality points/semester hour
D	Passing	1 quality points/semester hour
F	Failing	0 quality points/semester hour
P	Passing	0 quality points/semester hour (for credit courses only.) (See Pass/Fail policy for more information.)
S	Satisfactory	0 quality points (for zero-credit courses only)
U	Unsatisfactory	0 quality points (for zero-credit courses only)
I	Incomplete	0 quality points

Other Designations (carrying no quality points):

I	Incomplete	Student was unable to complete the coursework due to unexpected illness or personal emergency. (See I (Incomplete) Policy for more information.)
L	Late Grade/ Continuing Course	Student work is expected to extend beyond a given semester. (See L (Late Grade, Continuing Course) Policy for more information.)
Q	Total University Withdrawal	Used when a student has totally and officially withdrawn from the university for a given semester. The Q designation is not issued by

instructors.

(See Total University Withdrawal Policy for more information.)

R	Research in Progress	Only to be used to indicate deferred status for graduate thesis and dissertation courses.
W	Individual Course Withdrawal	Used when a student has elected to withdraw from an individual course but not from all courses. The W grade is not issued by instructors. (See Individual Course Withdrawal Policy for more information.)
*	Grade not reported by instructor	No grade information was reported by the end of the normal grading period.

Shortly after each semester or session, a full grade report is mailed to each student at his or her mailing address.

Quality points are not counted on credits from other schools, and a student transferring from another school is held responsible for quality points only on work taken at this university.

Cumulative Quality Point Average is determined by multiplying the semester hours for a course by the quality points received for that course. Then the total number of semester quality points for all courses are divided by the total number of semester hours attempted.

Institutional Credits are associated with remedial courses which are numbered below 100. Credits from institutional credit courses do not apply to degree requirements for graduation but are used in determining enrollment status (full or part time) including financial aid and athletic (NCAA) eligibility.

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Academic Policies

Audit Policy

To audit an undergraduate course, a person must be admitted to the university and have met course prerequisites. Students wishing to audit a course for which they registered should obtain a Course Audit Form from the department chairperson of the course. To audit a course not previously registered for at registration, students must first register for the course before filing a course audit form. All audit processing, including revocation of previously requested audit classification, must be completed during the regular drop/add period. Copies of the completed form are returned to the Scheduling Center, to the department chairperson, and to the student. Audit students have the same privileges as other students in all coursework. There is no limit on the number of courses which may be audited.

All audited courses will be identified as such on the student's grade report and transcript. Work taken on an audit basis will not be graded and will not count toward the fulfillment of requirements for a degree to be awarded by IUP. Since semester hours attempted and quality points will not be awarded for audited courses, they will not affect the student's quality-point average in any way. Auditors will pay normal tuition and such other fees as may be required for the course.

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Academic Policies

Cancelled Semester Policy

The Cancelled Semester Policy permits students returning after significant separation from the university to delete from the Cumulative Grade-Point Average (CGPA) calculation the results of one particularly unfortunate semester. A student who has not been enrolled in four consecutive semesters and the intervening summer sessions may apply upon application for readmission or within one year of readmission for the application of this policy to any single semester completed before readmission. While readmission may be based on the application for cancelled semester, the transcript record will reflect this only after the student is enrolled and attending. [For cancellation purposes, a semester is defined as any semester of enrollment, whether full or part time, with sessions in a single summer together constituting one semester.] All grades—passing, failing, withdrawals—in that semester must be cancelled from the CGPA. There is no abridgment of the transcript; the courses and grades remain visible on the official transcript. Credit toward graduation remains for those credits associated with passing grades. A student may never cancel more than one semester from his/her CGPA under this policy.

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Academic Policies

Course Repeat Policy

A student may not normally repeat an academic course. Exceptions to this policy are:

1. Repeatable courses: Certain courses are eligible to be repeated for credit and grade. These courses are advanced art studio courses, music ensembles, special topics courses (281, 481) if the topic is different, and other courses specifically designated.

2. D and F grades:

0. Repeat with replacement: Undergraduate students are permitted to replace the grades and quality points for courses in which they receive a D or F grade by repeating that course at IUP and filing a repeat form with the Scheduling Center. Only six repeat-with-replacement attempts are permitted during a student's entire undergraduate career. In calculating GPA, the new grade and quality points earned will replace the old. However, the transcript continues to document all academic work, and repeated courses are not deleted from the visual record.
- a. Repeat with averaging: In addition to the six repeat-with-replacement options, undergraduate students may repeat other courses in which they receive a D or F grade. In these other repeat attempts, the new grade is averaged with, instead of replacing, the prior D or F grade; the credit for the D repeat counts only once. The transcript continues to indicate all repeated courses.
- b. Course transfers: Students seeking to replace or average D and F grades must repeat these courses at IUP. If an IUP course in which a student received an F is repeated at another institution, the credit will transfer to IUP, but the original F will continue to count toward the IUP GPA. If an IUP course in which a student received a D is repeated at another university, neither the grade nor the credit will transfer.

3. Other grades: Courses in which students earned a grade of A, B, C, or P may be repeated only on an audit basis. New grades will not be assigned and additional credit will not be awarded.

This policy also applies to transfer credit. Students receiving transfer credit for an IUP course may not repeat that course at IUP. Similarly, students who have already earned a passing grade in an IUP course may not subsequently receive transfer credit for that same course.

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Academic Policies

Fresh Start Policy

A student who has been academically dismissed and separated from the university for a minimum of five consecutive calendar years may apply for readmission. Having reviewed the prior and intervening factors for evidence of potential for improved academic success, the college dean or designee may readmit the student. This policy applies to a student's first baccalaureate degree, and a student may be readmitted under this policy only once. A minimum of 30 semester hours must be completed at IUP after a student returns to IUP under this policy.

A student who wishes to enter a college other than the one from which he/she was dismissed will apply to the original college, and that college will forward the application and related records to the new college for action.

Conditions for a Fresh Start Record: All credits and grades for IUP coursework taken prior to readmission under this policy shall remain on the transcript. Upon readmission, a new cumulative record (QPA) is established based upon credits and grades earned from the date of readmission.

Prior Record: Previously accepted transfer credits and IUP courses in which grades of C or better were earned prior to readmission will be reviewed in terms of appropriateness (applicability, timeliness) to the new degree. Those courses approved by the college dean or designee will be counted as semester hours earned and applied toward graduation in the manner of transfer credits..

Academic Standards: A student who is readmitted under the provisions of this policy shall be required to meet current degree requirements. He/she shall be academically reviewed under the policies published in the academic catalog at the time of rematriculation. A student readmitted under this policy waives the right to exercise the cancelled semester policy.

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Academic Policies

Grade Change Policy

Once earned grades have been recorded, they may be changed only in the case of clerical and/or calculation error or in the event of a successful grade appeal. It is not appropriate to change a grade based upon options, such as supplemental assignments, that are not equally available to all students. The deadline for corrections of clerical and/or calculation errors is the end of the next regular (fall/spring) semester after the grade has been awarded.

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Academic Policies

I Grades Policy

The designation of I is used to record work which, so far as covered, is of passing grade but is incomplete because of personal illness or other unavoidable reason. Changes of grade to convert designations of I must be received in the Office of the Registrar no later than the last day of regular classes preceding the final exam period in the next regular (fall/spring) semester after the I designation was assigned. The dean of the college in which the course is offered may approve an extension, provided the faculty member concurs. A faculty member assigning an I designation must complete a form indicating the work to be completed, deadlines for completion (it is not necessary to allow the maximum allowable time), and guidelines to establish the final grade. Copies of the completed form will be sent to the department chairperson, to the dean of the college in which the course is taught, and to the student receiving the I designation. To monitor I designations, the registrar shall submit to each faculty member routine semester reports of outstanding I designations.

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Academic Policies

L Grades Policy

The designation of L (Late grade, continuing course) is appropriate for cases in which student work is expected to extend beyond a given semester/session. The designation of L is not to be confused with a designation of I, which is only appropriate for individual students unable to complete their course work because of unexpected illness or personal emergency. L designations are appropriate for:

0. Internships, practicums, field experience courses, workshops, and independent studies that, by design, extend beyond the normal end of the grading period.
- a. Others as approved by the department chairperson and the dean of the college in which the course is taught. If a specific course is always eligible for L designations, the dean may grant standing approval for L designations every time the course is offered.

Faculty wanting to use the L option for eligible courses must notify the registrar before grade sheets are printed (normally two weeks prior to the end of classes) so that the grades can be pre-entered on the grade sheet. L designations which are not precoded on the grade sheets may be given only with the permission of the department chairperson and the dean of the college in which the designation is awarded.

Instructors will convert L designations to letter grades at the end of the course. Unless an exemption is obtained from the dean of the college in which the course was taught, L designations unresolved at the end of one year will be converted to an F.

To monitor L designations, the registrar shall submit to each faculty member routine semester reports of all outstanding L designations awarded by that faculty member. The purpose of these reports is to help inform faculty as they help students complete their coursework.

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Academic Policies

Pass-Fail Policy

The purpose of pass-fail is to permit a student to take an elective course in a field of personal interest where he/she may be competing with major students in the department in which the course is offered. When scheduled, such a course shall be included in the student's normal course load for the semester.

A student may take courses on a pass-fail basis to a total of 15 semester hours throughout his/her university career. The student is limited to one pass-fail course in any given semester during the sophomore, junior, and senior years. All courses in the student's Liberal Studies program and in his/her major and minor fields are excluded from this prerogative.

The student must declare his/her intent to choose pass-fail in a specific course no later than six weeks after the beginning of the semester or the equivalent timespan in a summer session. Once declared, this pass-fail option may not be revoked. Instructors will not be notified of the identity of pass-fail students in their courses. The grade given by the instructor will be translated to a "P" or "F" during the grade processing process.

A student shall be given academic credit without quality points for a course taken pass-fail upon receiving a passing mark in the course. The semester hours successfully completed under pass-fail ("passed"), within the overall 15-semester-hour limitation, shall be recorded as counting towards the total semester hours earned for graduation but not towards the semester-hours-attempted data used in calculation of the cumulative quality-point average. However, if a student fails a pass/fail course, he/she will receive the "F" grade and the corresponding quality-point average. An F earned under the pass/fail option may be repeated only under the graded option to provide the quality points to correspond to the "hours attempted" incurred with the "F."

The summer sessions, collectively or in any combination, shall be considered a unit similar to a spring or fall semester for pass-fail purposes. Hence, a student is permitted to take only one course during the summer on a pass-fail basis.

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Academic Policies

Advanced Placement and Credit/Exemption Examinations

Courses taken by students prior to admission to college under the Advanced Placement Program of the College Entrance Examination Board may be recognized by the award of college credit or by exemption from required subjects. Those who earn a grade of 3, 4, or 5 in the Advanced Placement Examination will be granted credit toward the number of credit hours required for graduation.

For students who have had other unusual opportunities for instruction or have advanced in a given field, an opportunity to gain credit and/or exemption from a course is afforded through examinations. University Testing Services in the Career Services Office (302 Pratt Hall) offers credit options through the College Level Examination Program (CLEP).

Students have an opportunity to gain exemption or credit through successful completion of comprehensive examinations by requesting from the academic department an exam as a substitute for completing all the usual requirements of the course.

A student who passes an exemption examination will be exempt from taking that course in his/her academic program. When a student receives credit for a course by examination, the credit will be applied to graduation requirements just as though the course had been taken. If a student is granted exemption only from a course, he/she will be permitted to take a free elective in place of that course. This enables the student to specialize further, to correct weaknesses outside his/her major field, to build his/her knowledge in an ancillary area, or to introduce himself/herself to an entirely different area.

Courses for which credit or exemption are awarded by examination will not be used in the determination of quality-point averages.

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Academic Policies

Advisory Program

A group of selected faculty members act as freshman advisors for entering freshmen in their departments. In some curricula the advisors continue with the same group of advisees from year to year. In other curricula the freshman advisors remain with their advisee groups only for the students' first year; under this program, the student is then assigned an academic advisor for the remaining years through to his/her degree in a chosen field.

Faculty advisors counsel the students on academic achievement, dropping courses, changing curriculum, student activities, study schedules, and personal problems.

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Academic Policies

Classification of Students

In order to be classified as full-time, undergraduate students attending any regular academic year semester must be currently enrolled in at least 12 semester hours.

During the IUP summer sessions, a student must be enrolled in a total of 12 semester hours during the entire summer (Summer 1 and Summer 2) in order to be certified as a full-time enrollee.

Full-time certification for students enrolled in instructional periods which do not conform to the regularly scheduled academic sessions will be based upon the number of enrolled semester hours during that period of enrollment (e.g., 1 semester hour in one week of instruction would equal the minimum full-time certification standard).

For purposes of designating students by class, the following credit-hour classification ranges are used:

Freshmen	28 semester hours or less
Sophomores	29-56 semester hours
Juniors	57-90 semester hours
Seniors	91 semester hours or more

Class designations are based on credits earned rather than credits attempted. Persons holding a degree and working for a second baccalaureate degree may be classified as seniors.

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Academic Policies

Computer Software Policy

It is the policy of IUP that contractually protected and/or copyrighted computer software shall not be improperly copied, distributed, or used by its employees, students, or affiliated organizations. It is the responsibility of each member of the university community to adhere to this policy and to enforce it with regard to those they supervise. If any member of the community has a question regarding the propriety of using software, he/she is responsible for contacting his/her supervisor for direction. The supervisor may in turn refer the questions to the director of Academic Computing of the ISCC for a decision on what constitutes proper use. The full text of the policy adopted by University Senate and Council of Trustees in May, 1988, is available in the computer laboratories and from the director of Academic Computing.

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Academic Policies

Internship/Cooperative Education

Many departments of the university have developed internship/cooperative education programs which allow a student to participate in university-supervised work experiences for variable academic credit. Internships/co-ops are viewed as an integral part of a student's academic preparation. An internship/co-op gives the student an opportunity to apply theoretical and philosophical tenets of a discipline in a practical job experience related to the student's academic program.

Students may apply for an internship if they have completed 57 semester hours and have at least a 2.0 QPA. Internship sites are normally located within a 500-mile radius of the campus. Overseas placements are located near an IUP center. Internships are available in state and federal offices; businesses at the local, state, and national level; state-related agencies; corporations; and foundations.

Students may apply for a co-op if they have completed 30 semester hours and have at least a 2.0 QPA. Two experiences are required. Sites are national and international. Placements parallel those of the internship program.

Because internships are viewed as an integral part of the student's academic program, students who are interested in specific internship programs should consult with the internship advisor in the department of their major. A maximum of twelve credits is applicable to an undergraduate degree program from any combination of co-op and internship experiences.

For general information about university internships, co-ops, and placement options, the students should consult the Experiential Education Program or their department internship/co-op coordinator.

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Academic Policies

Normal Semester Hour Loads

A normal semester hour load is 15-17 semester hours. A student who wishes to schedule more than 18 or more semester hours must obtain approval from the dean of the college in which he/she is registered; approval will be predicated upon various criteria such as the student's demonstrated competencies, total courses, and specific conditions. If approval is granted, the dean will set the credit limit and direct the appropriate computer entry. When taking more than eighteen credits, a student is responsible for paying a per-credit fee at the current rate for each credit beyond eighteen.

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Academic Policies

Reserve Officers Training Corps

The United States Army established a unit of the Reserve Officers Training Corps at the university in 1950. In fulfilling the university's three-credit Liberal Studies requirement in Health and Wellness for graduation, students may take four credits of Military Science and receive full credit for the Health and Physical Education requirement. Enrollment in the four-credit ROTC option incurs no military obligation whatsoever and allows the student the option of competing for a three-year ROTC Scholarship.

Upon graduation from the university and successful completion of the Advanced Course ROTC program, the student will receive a commission as a second lieutenant and serve from three months to three years on active duty, depending on active Army requirements. As an alternative to active duty, the individual may either be chosen or volunteer to complete his/her service obligation with the Army Reserve or National Guard.

Students seeking advanced degrees can be granted an educational delay by the Army following completion of their baccalaureate degrees. Upon completion of the advanced degree, students then enter active duty or Army Reserve/National Guard duty.

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Academic Policies

Schedule Changes (Drop/Add)

The university registration system is characterized as one of continuous registration, using either Telreg (telephone registration) or Termreg (terminal registration). From the student's initial registration time for a given semester until the beginning of classes for the semester (except for specified restricted times), a student may modify his/her schedule to the extent that classes are available or permission to register for a restricted section has been granted and entered into the computer system. Deadlines for the opportunity to drop or add sections are published in the schedule of classes bulletin every semester. Each student is responsible for making the appropriate computer transactions to ensure schedule accuracy. Note particularly that while the department may enter permission to register for a section, the actual registration transaction must be entered by the student. The schedule of classes information includes specific directions for registration and modification for students.

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Academic Policies

Sophomore Screening for Junior Status Approval

General policy at IUP permits each college to determine its own scheme for evaluating the development and progress of its major students. However, each college is expected to employ some effective procedure for such evaluation.

Several of the colleges use a procedure called "Sophomore Screening for Junior Status Approval" with the following required: All students (in such a college) enrolled in their fourth semester or who will complete 57 semester hours attempted by the end of the current semester must apply for Junior Status approval by filling out an application form by the deadline date designated and announced.

All students should check with their faculty advisors to determine which colleges use "Junior Status" screening procedure and the criteria for Junior Status Approval.

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Academic Policies

University Policy on Semester Course Syllabi

Each faculty member shall prepare and distribute, without charge, to each student within one week of the first meeting of the class a semester course syllabus. The syllabus will be consistent with course content and catalog description, which was approved by the Curriculum Committee of the University Senate for the initial course offering or revision.

The semester course syllabus is a vehicle of communication to promote student academic planning and to avoid misunderstandings of course plan and requirements.

It is recommended that each syllabus include:

1. the faculty member's name, office location, telephone number, and office hours
2. an outline of the course content, objectives, and prerequisites, as appropriate
3. information about the required textbook(s) with title, author, and edition, and any other required materials
4. information on the determination of grades, including the weight, types, and scheduling of evaluations, other planned requirements, and expectation for class participation
5. statement of policies and/or penalties for make-up exams and late submission of assignments

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Academic Policies

Individual Course Withdrawal Policy (*effective on June 1, 1995*)

An undergraduate student is permitted five individual course withdrawals at IUP. Exceptions for unusual circumstances, if any, will be by letter of petition to the dean of the student's college, with appropriate documentation of the circumstances.

Individual Course Withdrawals may be processed only during the first two-thirds of the term. Instructors are required to inform students of their standing in class prior to this time. A student wishing to withdraw from a course after the deadline may request a waiver through the office of the dean of his/her college. Approval is contingent upon documentation of exceptional events of a catastrophic nature that could not have been anticipated.

At the time of implementation, each continuing student will have five additional individual course withdrawal options, without regard to the number of his/her previous course withdrawals.

Students may begin using the computer STAR system to withdraw from a course after the official drop/add period has closed. At the two-third point for each semester, students may no longer individually withdraw from individual classes.

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Academic Policies

Total University Withdrawal Policy

An undergraduate student who does not register for the succeeding semester or, having registered, does not appear for classes at the beginning of the succeeding semester, is considered to have withdrawn from the university. Thereafter, he/she must apply for readmission as prescribed under "Admissions and Registration."

Any undergraduate student voluntarily withdrawing from the university during a semester or a summer session must secure a Withdrawal Form from the Advising and Testing Center, 106 Pratt Hall, 412-357-4067. The student will clear the form with the appropriate offices listed on the form, securing their signatures as evidence of clearance. (Students seeking medical withdrawal must also provide the Advising and Testing Center with a physician's corroboration of a medical need to withdraw.) The Withdrawal Form will then be returned to the Advising and Testing Center, which will notify the appropriate college dean, campus agencies, and instructors that an official withdrawal has been processed. No person shall be considered withdrawn from the university within a semester or session unless such notice is received. Designations of Q will be assigned to all registered courses in the semester/session from which the student is withdrawing.

Any undergraduate student involuntarily withdrawing from the university as a result of suspension or expulsion will have the designation of Q assigned to each registered course as a result of such judicial action.

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Academic Policies

Academic Honors

IUP recognizes academic achievement through Dean's Lists, Provost's Scholars, and graduation honors.

Dean's List

Undergraduate students receive recognition on the Dean's List for each semester (or summer sessions cumulatively) in which they earn at least a 3.25 quality-point average based on at least twelve credits of graded (not P/F) coursework.

Provost's Scholar

Sophomores and juniors who have a cumulative quality-point average of 3.50 and above at midyear are named Provost's Scholars and are recognized at an annual Honors Convocation, usually in April.

Graduation Honors

Traditional Latin honors are awarded at graduation to bachelor's degree candidates with appropriate academic records. Calculation is based on all undergraduate credits and quality points earned at IUP. Graduation honors are not granted for second (subsequent) degrees. The distinctions are:

Cum laude - 3.25 to 3.49 cumulative quality-point average

Magna cum laude - 3.50 to 3.74 cumulative quality-point average

Summa cum laude - 3.75 to 4.00 cumulative quality-point average

Beginning December, 1994, non-Latin honors are awarded to associate degree candidates. The distinctions are:

With Honor - 3.25 to 3.49 cumulative quality-point average

With High Honor - 3.50 to 3.74 cumulative quality-point average

With Highest Honor - 3.75 to 4.00 cumulative quality-point average

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Academic Policies

Undergraduate Course Attendance Policy

The university expects all students to attend class.

Individual faculty members may define attendance standards appropriate to each course and the consequences of not meeting those standards, within the following guidelines:

1. Each policy must be distributed in writing during the first week of the course. Normally, it is expected that the information dealing with class attendance standards will be distributed with the Semester Course Syllabus.
2. Each policy must recognize students' need to miss class because of illness or personal emergency.
3. Each policy must define some limited level of allowable absence, normally at least a number of clock hours equal to course semester hours.

Approved May 13, 1994, Council of Trustees

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Academic Policies

Anticipated Class Absence for University Representation and Participation

The university community recognizes the values of student participation in cocurricular and extracurricular activities of the university. IUP has fostered this participation with an informal policy of good faith accommodation to meet overlapping demands of the curricular and extracurricular commitments.

The underlying spirit of good faith accommodation ultimately is set in the faculty member's unabridged right to determine the terms of variance, if any, from the established course syllabus—tests, quizzes, due dates for papers or other assignments, projects, presentations, and all other course operations.

In seeking variance, the student must take the initiative to make all arrangements including validation of participation as needed. The student should generally assume that papers and such assignments should be completed and submitted before the anticipated class absence. Alternate arrangements for tests, quizzes, labs, or class participation activity (panels, simulations, presentations) should be sought sufficiently in advance to permit faculty/student agreement on the plan for completion, whether the actual completion is rescheduled to be prior to or subsequent to the anticipated absence.

Approved by University Senate April 26, 1988, and Council of Trustees May 13, 1988

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Academic Policies

Changes of Major

To qualify for change of major, a student must be in academic good standing (2.00 GPA) *and* must meet any other requirements specific to the major. The following majors have requirements beyond 2.00 GPA: Criminology and all teacher certification programs.

A student must apply for a change of major in the office of the dean of the college in which the student is registered if the curriculum change desired is from one department to another within the same college (for example, change from a mathematics major to a biology major) or in the office of the dean of the college to which the student wishes to transfer if the curriculum change is from one college to another (for example, secondary education major to biology major). In either case, the student will complete an application form that is available in the dean's office. Before seeking a change of major, it is advisable that the student consult with the chairpersons of both the "old" and "new" departments.

When a student changes colleges, the dean (or dean's agent) of the college into which the transfer is sought will evaluate the student's credits before approving the transfer. A copy of the evaluation will be made available to the student and his/her new advisor if a change of major is effected.

In cases involving students who are veterans, the dean of the college into which transfer is sought (or dean's agent) shall give the veteran a statement of prospective approval and the effective date of the proposed changes. This statement shall also indicate the amount of extended training time the change of major will entail and the amount of credit loss, if any. The veteran shall take this statement to the veteran's counselor at least one month prior to the effective date of the change. No transfer of curriculum shall be made by veterans until V.A. approval has been assured.

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Academic Policies

Change of Major to the College of Education

Students who wish to transfer to a teacher education program in the College of Education must have a cumulative QPA of 2.5 or higher. Students should complete the university Change of Major form and submit it to the department chairperson for the new program of study. The application for a change of major is reviewed by the department chairperson and/or coordinator for the teacher education program to which application has been made. If requirements are met and approval is granted, the Dean's Office in the College of Education processes the application.

Some programs in the College of Education require internal transfers to complete Step 1 of the 4-Step Process. Students entering these programs need to submit all Step 1 paperwork with the Change of Major form. Students should consult with the department chairperson or program coordinator of the new major to determine specific requirements for effecting a change of major.

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Academic Policies

Admission to Teacher Education and Certification

Admission to teacher education programs is governed by the 4-Step Process. This procedure is designed to improve the quality of teacher education and maintain program integrity. The process consists of four steps, with evaluation and advisement occurring at each step.

1. [Admission to Teacher Certification](#)
2. [Admission to Junior Standing](#)
3. [Admission to Student Teaching](#)
4. [Recommendation for Certification](#)
5. [Removal of a Student Teacher from a Student Teaching Placement](#)

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Academic Policies

I. Admission to Teacher Certification

Procedure

Admission to teacher education programs at IUP is competitive. Although students may be accepted into the College of Education at initial application, they are not officially admitted to teacher education programs until qualified under the 4-Step Process. To qualify for admission to Step 1: Teacher Certification, a student should follow the guidelines listed below.

Requirements

At the point a student believes he or she will complete 29 or more semester hours with a cumulative QPA of 2.5 or higher, he/she must file an application for admission to the teacher education program. The application includes the following materials:

1. verification of completion of at least 29 semester hours
2. verification of a cumulative QPA of 2.5 or higher
3. a completed Teacher Certification Application signed by the advisor
4. official ACT 33/34/151 clearance forms
5. a physician's statement of TB clearance
6. a clinician's statement of speech test clearance
7. a clinician's statement of hearing test clearance

When all papers are prepared, they are submitted to the academic advisor for review and evaluation. The advisor recommends approval or denial and forwards the application to the Dean's Office, College of Education, for processing. Applications are processed immediately if all requirements are met. **Applications may be held for second semester freshmen waiting for grades/credits ONLY; applications will be processed following posting of semester grades..**

Results

If all Step 1 requirements are met, the student will be notified by letter of his/her admission to the Teacher Certification Program. This official admission makes the student eligible to take Core Education courses including: CM301 Technology for Learning and Instruction; FE202 American Education in Theory and Practice; EP202 Educational Psychology; and ED242 Pre-Student Teaching Clinical Experience I. **No student is allowed to register for Core Education courses until s/he has been granted admission to Teacher Certification.**

In some programs, official admission to Teacher Certification is required before enrollment in program coursework is permitted. Students should consult with their advisors or department chairperson to determine specific requirements for their program of study.

No student is guaranteed admission to the Teacher Certification Program. Acceptance into a program is at the discretion of the advisor, department, and College of Education. Any student with a criminal record should contact the College of Education immediately to determine his/her eligibility to become a commonwealth teacher.

Any student denied admission to the Teacher Certification Program must reapply at the time deficiencies are met.

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Academic Policies

II. Admission to Junior Standing

Procedure

When a teacher education candidate believes s/he will complete 59 or more semester hours with a minimum cumulative QPA of 2.5, he/she must file an application for Junior Standing with the Dean's Office in the College of Education.

Requirements

1. Admitted to Teacher Certification
2. Completed at least 57 semester hours which may include accepted transfer credits
3. Minimum cumulative QPA of 2.5
4. Completion of EN 101 or equivalent with a grade of C or better
5. Completion of ED 242 and EP 202 with grades of C or better
6. Final speech and hearing clearances for students not cleared at initial testing
7. Submission of a Planned Program of Study on an approved form

Some programs have additional requirements for admission to Junior Standing; students should consult with their academic advisor, program coordinator, or department chair to determine specific program requirements.

The application is reviewed, evaluated, and signed by the academic advisor. If all requirements are met, the application is forwarded to the Dean's Office in the College of Education for processing.

Results

The student is sent written notification of his/her acceptance to Junior Standing. Upon official admission, the student is eligible to enroll in the following courses: ED342 Pre-Student Teaching Clinical Experience II; ED442 School Law; EP377 Educational Tests and Measurements; and courses in the methods of teaching.

If a student has not met the requirements of Step 2: Junior Standing, the student will be so informed by the Dean's Office in the College of Education. Enrollment in Core Education courses will be denied until all deficiencies are met.

A student may reapply for admission to Junior Standing when s/he has met all prerequisite requirements.

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Academic Policies

III. Admission to Student Teaching

Procedure

Students who have completed all university, college, and departmental requirements are eligible to apply for admission to Student Teaching. An application should be filed with the Office of College-School Partnerships at least one semester before the actual experience.

Requirements

1. Admission to Junior Standing
2. Satisfactory completion of at least 91 semester hours with a cumulative QPA of 2.5 or higher
3. Completion of the required Liberal Studies science courses with grades of C or better
4. Completion of the required Liberal Studies mathematics course with a grade of C or better
5. Completion of all required professional education core courses with grades of C or better (FE202, EP202, CM301, ED242, ED342, ED 442, EP377 (when required), and methods course(s) in the major area)
6. Affirmative recommendation by the student's major department advisor or program coordinator
7. Verification of the special education competency by a) EX300 Education of Students with Disabilities in Inclusive Elementary Classrooms (for elementary and early childhood majors), b) EX301 Education of Students with Disabilities in Inclusive Secondary Classrooms (for majors in secondary subject areas and K-12 specialty areas), or c) the Special Education Competency Test.
8. Submit evidence of final criminal and child abuse clearances (Acts 34/151 for Pennsylvania residents or FBI clearance for out-of-state students).
9. Satisfy supplemental departmental requirements, if any, as approved by the Faculty Senate and described in the department section of the undergraduate catalog.

Results

Students who make application and meet all requirements for Admission to Student Teaching will be placed for the final clinical experience by the Office of College-School Partnerships. **Placement is at the discretion of the student's major department and the Office of Educational College-School Partnerships.** Confirmation of acceptance and approval is made in writing and permits the student to register for student teaching during the normal registration process.

If requirements for Student Teaching have not been met, the student is informed in writing and will be administratively removed from the student teaching placement. The student may not register for student teaching until deficiencies are removed.

In keeping with university policy, all student teachers are required to be registered for Student Teaching before they enter the classroom on the first day. See the Academic Policies section of the catalog for more information.

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Academic Policies

IV. Recommendation for Certification

Procedure

Complete application for the Pennsylvania Department of Education Certification and file with the Office of Educational College-School Partnerships by the listed dates appropriate to the anticipated date of graduation.

Requirements

1. A minimum grade of C in all professional education courses and an overall grade-point average of 2.5.
2. Review and recommendation by the major academic advisor indicating completion of all departmental teacher education requirements.
3. Completion of student teaching with a minimum grade of C.
4. Successful completion of the PRAXIS Core Battery, PRAXIS General Knowledge, and PRAXIS Specialty Area tests.

Appeal Provision

A student who believes that any requirement of this policy has been inequitably applied or that he/she merits special consideration may appeal through the proper channels: academic advisor, chairperson, College of Education dean (or designee), teacher education appeals committee. Appeals must be made before the end of the next regular academic semester following the application.

Every effort should be made to resolve the appeal through the process so described. If, at the conclusion, the student is still in disagreement with the findings, the student may request review before a special Teacher Education Appeals Committee. The committee will be composed of three voting members representing the faculty, cooperating teachers, and students to be elected each year by the Teacher Education Coordinating Committee.

To initiate an appeal, the student must file a form obtained at the Dean's Office, College of Education. Appeals will be heard only during the regular academic semester. The student will be expected to submit written documentation of his/her complaint about the process of review for continuation or eligibility in the teacher education program. The committee will review the materials and make its recommendation to the dean, College of Education. A final decision rests with the dean of the college, who is the certification officer.

End Notes

In all cases where advisor action is required, a department may choose to use a committee or other departmentally approved process. In cases where recommendations are supplied by someone other than the academic advisor, the department needs to place a copy of its policy and procedures on file with the dean of the College of Education.

Some departments have additional Junior Standing requirements in place. Departments may continue to apply those requirements but need to keep a current copy of these requirements on file with the dean of the College of Education.

The policy as here stated applies to all students applying to Teacher Certification Programs on or after September 1, 1988, and includes updated procedures and editorial revisions as submitted to the University Senate in May, 1990, and May, 1992.

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Academic Policies

V. Removal of a Student Teacher from a Student Teaching Placement

Purpose

To establish reasons or a process for removal of a student teacher from the student teaching assignment. The first two items are consistent with Act 34, Criminal Record Check; item 3 establishes a procedure if student behavior is not consistent with appropriate expectations of the school district; item 4 establishes a process and assures that the student teacher learns of unsatisfactory progress as early as possible; and item 5 is an appeal process.

Policy

Student teachers are ultimately guests of the cooperating school districts and may be removed by the district officers. A student teacher may also be removed by IUP from the student teaching assignment for any of the following reasons:P>

1. If **indicted** for a felony which is covered in the School Code and Act 34, there shall be a removal of the student teacher from the school assignment until the matter is cleared. When the student is cleared of the indictment, the student teaching assignment will be extended to cover the time missed during student teaching.
2. If convicted of a felony **which is covered in the School Code and Act 34**, the student teacher will be withdrawn from the student teaching assignment and will forfeit the time spent during the student teaching assignment.
3. If the behavior exhibited by the student teacher is not acceptable to the school district, it should be documented by the school administrator/principal in collaboration with the cooperating teacher and the university supervisor/coordinator and director, Student Teaching Office. If after discussion with the student, improvement is evidenced, no further action will be taken by the Student Teaching Office.
4. If it is determined either by the cooperating teacher or university supervisor that the teaching competency of the student teacher is at an unsatisfactory level based on the teaching competencies indicated on the evaluation form and not in the best interest of the students, a three-way conference of cooperating teacher, university supervisor, and student will be held to discuss the concern possible, outcomes, and remedial strategies. **If after consultation with university director of Student Teaching, removal from this student teaching placement is necessary, this action shall be done by the director of Student Teaching and the dean of the College of Education.** This behavior should be documented and discussed as early in the student teaching experience as possible.
5. **Decisions made under this policy may be appealed to the dean, College of Education (certification officer).**

Academic Policies

Final Examination Policy

The final examination week is part of the regular academic program and must be incorporated into each instructor's course plan for the semester. Final examinations are not the only legitimate type of terminating activity, and therefore, the instructor may choose an appropriate activity that conforms to course objectives.

The terminating activity shall take place only at the time and location assigned by the Scheduling Center. Unless granted an excused absence, the faculty member responsible for the course must be present for the full examination period to direct the terminating activity. Faculty members may require student attendance at the terminating activity.

Faculty members who do not schedule or do not attend the terminating activity for a course may be subject to disciplinary action commensurate with unexcused absences. Block finals must be held as scheduled. Once the final examination has been set by the Scheduling Center, changes and absences must be approved by the instructor's dean.

During the examination period, the following general rules apply where conflicts exist:

1. The higher-numbered course takes precedence. Thus, a student enrolled in GE102 and EC325 would take the EC325 exam at the assigned time and the make-up in GE102.
2. If courses in conflict are the same level and number, an *alphabetical determination by full name of the department will be made*. For example, a student enrolled in AG421 and CS421 would take the AG421 exam at the assigned time and a make-up in CS421.

Maximum Number of Exams on One Day/Conflicts:

A student may not be required to take more than three final exams on any one regularly scheduled examination day. For any exam over three, a make-up exam must be scheduled by the instructor for the student, at his or her request, into another mutually agreeable regular final examination period. The rules determining conflict resolution (listed above) will determine which exam or exams a student may request as make-ups.

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Academic Policies

Night Exam Policy

All tests, examinations, and quizzes should normally be administered during the prescribed course hours. Only in this way can the essential contracted nature of the time arrangements between student and professor be preserved and, at the same time, proper provisions made for the many extracurricular and personal activities involving students and faculty alike. Deviations to allow night exams for valid educational reasons, within the guidelines listed below, must be approved by the department and the dean.

Guidelines

1. Night exams can only be scheduled on Monday through Thursday evenings within the 6:00-10:00 p.m. time period.
2. Appropriate physical facilities must be arranged in advance without encroachment upon other authorized university functions.
3. If night exams are to be given, the day of the week on which they will be given must be listed in the undergraduate course schedule.
4. No night exam can take precedence over a regularly scheduled class.
5. Arrangements for nonpunitive make-up exams at a mutually agreeable time must be available for students that cannot attend the night exam.
6. For each hour of night exams, an hour of regularly scheduled class time will be cancelled. Such cancellations are prohibited during any period of two class days immediately preceding and any period of two class days immediately following holiday and/or vacation (recess) periods and semester terminations, appearing in the published academic calendar.

Academic Policies

IUP Student Grade Appeal Policy

Grade Review Policy

If a student disagrees with the evaluation of his/her work by the instructor but has no basis for a charge of "discrimination" or "capricious evaluation" or "error," the student should discuss the matter directly with the instructor, and if unsatisfied, with the department chairperson, and if still unsatisfied, with the dean of the college in which the course was offered. In such cases, the decision of the instructor shall be final. If a student believes that an improper grade has been assigned, an appeal may be filed on the following grounds:

1. **Discrimination:** On the basis of race, religion, national origin, sex, age, ancestry, handicapped status, affectional or lifestyle preference, or political affiliation.
2. **Capricious Evaluation:** Significant and unwarranted deviation from grading procedures and course outlines set at the beginning of the course (ordinarily in a written statement during the first week of the course) or grade assigned arbitrarily on the basis of whim or impulse. The student may not claim capriciousness if he or she disagrees with the subjective professional evaluation of the instructor.
3. **Error:** Demonstrable, objective determination that a mathematical or clerical error resulted in the entry of an incorrect grade.

Procedures of Appeal

Level I: Informal Resolution

Every effort should be made to resolve the disagreement at Level I. The student must first seek a resolution to the disagreement with the instructor either in person or in writing. If the student is not satisfied with the results, the student must then speak with the chairperson of the department that offers the course. If still unsatisfied, the student must discuss the matter with the dean of the college in which the course is offered. A Student Congress member may accompany and advise the student during the Level I procedures. Only after all attempts for resolution at Level I have been exhausted may the student initiate Level II.

Level II: Appeal Screening

A. Composition: Each year there shall be appointed a Grade Appeals Committee to determine the existence of the substantive basis for appeal. The committee will be composed of seven voting members: three faculty members appointed by APSCUF, three members elected by and from the Senate Academic Committee (one faculty, one administrator, one student), and one student appointed by the Student Congress. A quorum consists of a majority of the committee. To take action, a majority of those present must be faculty members. If a quorum of the Level II committee is not available to meet within the designated time limits, the Provost's Office will seek additional members from the appointing bodies. If these bodies are unable to respond in a timely manner, the Provost's Office may select additional members from the appropriate groups.

B. Procedure to Initiate Appeal: To initiate Level II of the appeal, the student must file an appeal form

with the Provost's Office. This form must be filed within sixty (60) calendar days of the beginning of the semester immediately following the semester in which the grade was received. The Provost's Office may extend the sixty-day limit only in unusual circumstances when equity demands it and when the student's own procrastination or misunderstanding did not substantially contribute to the delay. [Note: Grade appeals will not generally be processed during the summer. Therefore, the appeal of any grade received in the spring or summer sessions normally will be processed in the fall. A review will be scheduled in the summer only when the student's academic eligibility is jeopardized by the grade in question or when the student is a graduating senior.] The Provost's Office will notify the appropriate dean, department chairperson, faculty member, and the Student Congress president of the student's initiation of the Level II process.

C. Procedure to Process Appeal: The student will be expected to submit written documentation of his/her complaint, and the faculty member will be expected to submit in writing the course grading procedure and any other pertinent information. Appeals based on discrimination will be reviewed according to current standards of nondiscriminatory action. Appeals based on capriciousness will be reviewed in light of the faculty member's announced evaluation and grading system. The committee will review the materials to deny or confirm appeal continuance. Denial of appeal continuance must be by a negative vote of four members of the committee. This committee will inform the Provost's Office of its findings. Within five (5) class days of the receipt of the committee's report, the provost or designee will notify the student and the faculty member of the findings. If the basis for appeal is determined to be substantive, the provost or designee will schedule a Grade Review Panel within fifteen (15) class days to be convened prior to the conclusion of the semester.

Level III: Appeal Review

A. Composition: The Grade Review Panel will consist of five voting members: one academic dean or associate dean and four faculty members. The Student Congress Executive Committee designee may advise as requested by the student. The affirmative action officer will advise in appeals based on discrimination. The panel will be constituted from the Grade Review Pool by random selection. The panel chairperson will be elected by and from the panel before each review.

B. Membership: The Grade Review Pool will be established in the spring term to serve for the following academic year. Using random selection methods, the pool and rotational order within the pool will be established by the Provost's Office. A pool of three deans or associate deans and twelve full-time faculty members will be maintained. In establishing the membership for each review panel, prior to each review the names of those designated as primary members of the specific panel and available as alternates will be supplied to all parties involved. A panel member may request (to the provost or designee) disqualification due to a conflict of interest. The student and the faculty member may eliminate names in proportion to the composition of the panel. Each may eliminate only one dean/associate dean and four faculty. The instructor and the student will be supplied a list of all primary and secondary pool members. The opportunity to disqualify panel members will take place only once. Resulting vacancies will be filled from the appropriate pool of alternates so that the panel will be composed of one dean/associate dean and four faculty. If through self-disqualification and challenges a panel cannot be constituted from the pool, then the Office of the Provost will supplement the pool using appropriate random selection methods.

C. Procedure:

1. Both the student and the instructor will have the right to appear before the panel, present witnesses, and offer evidence. In addition to those specified in Level III, Section A, each may also bring one observer, with whom he or she may consult but who may not participate in the review.
2. The panel shall determine its rules of order for internal operation. After hearing the evidence brought forth, the panel will privately deliberate and render a decision. If the grade appeal is upheld, the panel will constitute a committee of three appropriate faculty members (knowledgeable in the discipline but excluding the faculty member against whom the complaint was lodged), who will review the student's work and recommend the

appropriate grade or suitable remedy. The panel will incorporate this information in its determination, which it then forwards to the Provost's Office for implementation, ordinarily within thirty days. The Provost's Office will initiate the processing of grade changes resulting from Level III decisions.

3. The written report sent to the Provost's Office will state whether the student's appeal is upheld or denied; if upheld, the committee's evaluation and remedy will be included. Both the student and the faculty member have the right to review all documents related to the appeal. All documents supporting the report will be sealed and kept only as long as necessary (normally one year) to ensure the appropriate action is taken before they are destroyed or returned to the individual presenting the evidence.

Ancillary Provisions

A. Continuing Rights: This appeal does not supplant any legal rights afforded by the Commonwealth of Pennsylvania and/or the Government of the United States. Nothing in this policy abrogates or modifies any provisions of or rights under the Collective Bargaining Agreement.

B. Discrimination in this policy generally means unlawful discrimination. To the extent that any form of discrimination identified in this definition is not unlawful discrimination, this definition shall not be taken to create a cause of appeal against the university. In such cases, the final appeal procedures stated in this policy will be final and binding on the student.

C. Tenure and Promotion Committee Membership on Grade Appeals Committees: Members of the universitywide tenure and promotion committees may not serve concurrently on grade appeals committees.

D. Support Mechanism: The Provost's Office, after consultation with the Senate Academic Committee and APSCUF, will be responsible for identifying a pool of at least ten faculty members well versed in the preparation of grade appeals who will be available upon request to help students or faculty prepare documentation for the grade appeals process.

E. Training/Support: The Provost's Office will offer yearly information sessions/workshops to assist deans, chairs, grade appeals panel/committee members, and members of Student Congress/Academic Affairs Committee in identifying issues and to provide guidance for the resolution of grade appeals.

F. Dissemination of Grade Appeal Information: The Provost's Office will annually report to the university community a statistical summary of grade appeal data that does not compromise confidentiality including 1) the number of appeals filed, 2) the resolutions at levels II and III, and 3) the final implementation of Level III decisions.

G. Appeals on Procedural Grounds: Decisions may not be challenged merely because the Provost's Office fails to comply with Ancillary Provisions D, E, or F above.

H. Intentional Misrepresentation: Intentional misrepresentation in the filing of grade appeals by students will be referred to the university judicial system for students. Intentional misrepresentation by faculty in the grade appeals process will be referred to the Provost's Office.

I. Confidentiality: Students, faculty, administrators, and staff involved in processing and hearing grade appeals must respect the confidentiality of all aspects of these proceedings. Those breaching confidentiality subject themselves to possible disciplinary action. This shall not abridge the First Amendment rights of the student appellant nor the instructor against whom the appeal has been filed.

J. Intended Purpose: The grade appeal procedures are designed simply as a means to resolve differences between students and faculty related to grading. Unless there is intentional misrepresentation, the results of a grade appeal may not be used for disciplinary action of personnel.

K. Faculty Compensation: If a Review Panel (hearing) is scheduled at a time in the summer when any faculty member involved is not under contract, the faculty member will be compensated under terms

mutually agreed upon at Meet-and-Discuss.

L. Review of Policy: Every five years the Senate Academic Committee will review, in consultation with the campus community, the operation of the Grade Appeals Policy and recommend changes deemed appropriate.

M. * Amendment: Amendments may be implemented upon concurrence by University Senate, APSCUF Representative Council, and Meet-and-Discuss.

***Note:** In the amendment process above, specification of University Senate implies the Council of Trustees' role in approving Senate actions and recognizes the Council of Trustees' final action to change policy.

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Academic Policies

Prior Learning Assessment Programs

IUP offers several methods for earning university credit for college-level learning gained through work and life experience. Through the Office of Career Services, the College Level Examination Program (CLEP) offers standardized examinations in general and specific subjects. In addition, departmental examinations are also available in specific areas on a limited basis.

Where examinations are not available, portfolio assessment may provide the student with the opportunity to present evidence of learning for evaluation by a university faculty member. Through portfolio assessment, work and life experiences are evaluated to determine their appropriateness and applicability for university credit. Credits earned through prior learning assessment may not be applied towards university residency requirements for awarding of degrees. In addition, no more than one-half of a major may be earned by CLEP, departmental examination, and portfolio assessment. Contact the School of Continuing Education for information regarding portfolio assessment.

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Academic Policies

Policy on Prior Learning Assessment

IUP has authorized a policy for assessment of prior learning that took place outside traditional classrooms in a procedure known as Portfolio Assessment. It is particularly designed for adults with extensive documentable knowledge from work experience, travel, independent study, or other out-of-class experiences.

Portfolio Evaluation: Principles

1. Credit awarded through portfolio evaluation must conform to specific course titles listed in the IUP catalog. Credit awards for general broad areas (block credit) will not be permitted.
2. In order to request a portfolio evaluation, the student must be currently enrolled at IUP. Credit awarded must be intended for use as part of a degree or certification program.
3. Each department will determine the maximum number of credits to be awarded for prior learning for its major. In no case will more than one-half of the major be earned through CLEP, challenge examinations, and other forms of prior learning assessment.
4. Credits earned through portfolio assessment may not apply as residency credit for the purpose of awarding degrees.
5. Credit earned through portfolio assessment may be awarded only as regular course credit.
6. If a related examination is available through CLEP or if a challenge examination has previously been established for the course, a portfolio assessment of those credits will not be accepted.
7. Acceptance of portfolio assessment credits by the department will be indicated by the signature of the chairperson of the department offering the course. The dean of the appropriate IUP college and the dean of the School of Continuing Education must also indicate approval.
8. Students may qualify solely for undergraduate credit—not graduate credit.
9. The title of the course, the semester hours, and the indication that credit was earned through Assessment of Prior Learning will be recorded on the academic record. An appropriate code to reflect a satisfactory grade will be assigned if the portfolio is acceptable.

Portfolio Evaluation: Procedures

1. Student meets with assistant dean for Credit Programs in the School of Continuing Education to determine the feasibility of earning credit through portfolio evaluation. Standard outlines of related courses are provided to student.
2. Preliminary Application Form - Student must provide a resume and answer the following questions:
 0. What have you learned that relates to this course?
 - a. Where and when have you learned it?
 - b. What documentation do you have that supports the claim?
3. A handbook to assist students in compiling a portfolio will be printed. It will show how to relate to the written portfolio learning gained through work experience, independent study, and other experiences. Evidence of learning through documentation of experience, completion of a project, and written examination will be explained. If there is sufficient demand, a workshop will be conducted to assist students.
4. Fees:
Application Fee per Assessment: \$15.00

Assessment Fee: one-half the current rate of tuition per credit for each credit requested; to be paid when portfolio is submitted for evaluation.

5. The application will be submitted to the assistant dean for Credit Programs. Upon approval, the chairperson of the department offering the course will be requested to suggest the name of a faculty member to the dean of the college for approval.
6. The faculty member will meet with the student to determine the technique of assessment or a combination of techniques to be used, including interviews, documentation, observation of performance, examination, etc.
7. After the portfolio has been prepared by the student, it will be submitted to the dean of the School of Continuing Education for review, then forwarded to the appointed faculty member for assessment.
8. The faculty member will evaluate the portfolio, then make a recommendation for or against the award of credit and the amount of credit in the form of a letter, which must be approved and countersigned by the chairperson of the department offering the course. The portfolio will be forwarded to the dean of the college which oversees the student's curriculum to approve and verify that the course will be accepted as part of the student's program. Finally, the portfolio is sent to the assistant dean of the School of Continuing Education, who will notify the student and the registrar.
9. The registrar will list the course title, credit, and an indication that credit was earned through Assessment of Prior Learning. An appropriate code to reflect a satisfactory (S) grade will be assigned if the portfolio is acceptable

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Academic Policies

Criteria Governing Continuance at IUP

Continuance at IUP is determined according to the university's Academic Standards Policy as approved by University Senate December, 1987, and Council of Trustees in February, 1988. This policy became effective July 1, 1988.

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Academic Policies

Academic Standards Policy

The Academic Standards Policy applies to all undergraduate degree candidates of the university. Academic standards for students enrolled in graduate courses and programs will be defined and administered through the Graduate School. Academic standards for participants in nondegree programs will be defined separately.

Authority to administer the Academic Standards Policy is vested in the dean of the college which has jurisdiction for the student's primary major. That responsibility may be assigned to an appropriate designee. Students officially advised by the Learning Center are reviewed by the Learning Center director.

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Academic Policies

Academic Good Standing:

Every undergraduate student must maintain a cumulative 2.00 GPA to be in academic good standing. There are three review periods: January, May, and August. The August review period applies only to students newly matriculated through the Learning Center. Continuation of enrollment is permitted under defined circumstances.

1. January Review Period:

The academic standing of each student is reviewed. A student whose cumulative GPA is below 2.00 is considered to be in a Probation status.

2. May Review Period:

The academic standing of each student is reviewed. A student must have a cumulative GPA of 2.00 to be in good academic standing.

- a. For a student who matriculated during the preceding summer or September, the following criteria apply:
 - if the cumulative GPA is between 1.80 and 1.99, the student is continued on probation.
 - if the cumulative GPA is below 1.80, the student is dismissed.
- b. For a student who matriculated through the Learning Center/Act 101 during the preceding summer or September, the following criteria apply:
 - if the cumulative GPA is between 1.80 and 1.99, the student is continued on probation.
 - if the cumulative GPA is below 1.80, and the student is in compliance with the participation requirements of the Learning Center program, the student is continued on probation.
 - if the cumulative GPA is below 1.80, and the student is not in compliance with the participation requirements of the Learning Center program, the student is dismissed.
- c. For a student who matriculated in the immediately preceding semester, the following criteria apply:
 - if the cumulative GPA is below 2.00, the student is continued on probation.
- d. For all other continuing students, the following criteria apply:
 - if the cumulative GPA is below 2.00, the student is dismissed.

3. August Review Period:

The August review period applies only to students newly matriculated through the Learning Center.

- a. Students who matriculate through the Learning Center/Act 101 and who complete the initial summer program with a 0.00 GPA (based on a calculation of all credits attempted) will be dismissed from the university at the conclusion of the summer program.

Academic Policies

Probation:

1. **Definition:** Probation status is that status of any student who has a cumulative GPA less than 2.00 and who has permission to enroll in the university.
2. **Student responsibilities:** A student who is in Probation status is expected to meet with his/her advisor prior to or within the first week of each semester to review current course load and to establish a plan of contact for the semester. It is generally anticipated that a probation student will develop personal change strategies utilizing appropriate professional resources such as advisor, faculty, Counseling Center, Learning Center, Career Services, workshops, tutoring programs, and other support systems.
3. **Additional conditions:** As a condition of deferral of dismissal, a dean (or designee) may include specific conditions designed to promote improved academic performance.

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Academic Policies

Dismissal:

1. A student who does not meet minimum academic standards is subject to automatic dismissal in May. Dismissal is the normal consequence of cumulative performance below the academic standards as published; the office of the dean provides confirmation of dismissal status and additional information.
2. Dismissal in May or August includes the cancellation of previously scheduled fall classes and the elimination of guarantees associated with fall housing and dining contracts.
3. Appeal for deferral of dismissal: In certain cases extenuating circumstances may exist which in the professional judgment of the college dean or designee will warrant a brief extension of enrollment privilege at IUP. A student should understand that it is the student's responsibility to anticipate, to initiate, and to fully document and cooperate in all aspects of the process of appeal in a timely manner. The student must file in the office of the dean (or designee) the completed application for appeal with all supporting documentation pertinent to review of the appeal. All material must be filed by 4:00 p.m., June 15, to be considered for the fall semester.

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Academic Policies

Readmission:

1. All dismissed students seeking readmission must make application for readmission through the appropriate college office. A student who has been dismissed may use summer sessions at IUP in support of the application for readmission. The application will detail procedures including deadlines and information needed for consideration of readmission plan.
2. Students dismissed at the conclusion of the Learning Center/Act 101 summer program may apply for readmission beginning with the next Learning Center/Act 101 summer program in the following year.

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Academic Policies

Sufficient Progress:

The IUP Financial Aid Satisfactory Academic Progress Policy requires sufficient academic progress toward a degree on both academic good standing (GPA) and sufficient progress (percent of progress) bases. The standard of academic good standing is defined within the university's Academic Standards Policy. The standard of sufficient progress for financial aid eligibility is the successful completion of 75 percent of the cumulative number of registered credits at IUP. "Registered credits" are the number of credits for which a student is enrolled at the end of the Drop/Add period. (Registered credits will be calculated as twelve for students originally registered and charged at full-time status who reduce to part-time status during Drop/Add.)

A student who meets the standard of academic good standing of the Academic Standards Policy but who does not meet the standard of sufficient quantitative progress may continue in university registration but without financial aid eligibility for the federal Title IV aid programs.

A full statement of requirements for Satisfactory Academic Progress for Title IV Federal Student Assistance is available through the Financial Aid Office.

All courses taken at IUP become a part of the student's permanent academic record. The record shall show hours attempted, hours earned, and quality points earned.

The academic standing of all students is computed on the basis of courses attempted at this university and in the approved SSHE Visiting Student Program only. Credit is granted for work completed in other institutions in accordance with the stipulations set forth under "Admissions and Registration."

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Academic Policies

Academic Integrity Policy

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2. [Types of Violations](#)
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Academic Policies

A. Introduction

IUP is an academic community within the society at large. All members within this community are expected to accept the responsibility for academic integrity and honesty. Academic dishonesty seriously erodes the quality of educational pursuits and is unacceptable at IUP. The following policies and procedures have been established to preserve the academic integrity of the university community, while also providing a process that protects the rights of students who allegedly violate these policies.

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Academic Policies

B. Types of Violations

Academic dishonesty includes but is not limited to the following:

1. Providing or receiving unauthorized assistance in coursework, lab work, or during examinations or quizzes.
2. Using unauthorized materials or devices, such as crib notes, during examinations or quizzes.
3. Plagiarizing term papers, essays, reports, speeches and oral presentations, take-home examinations, computer projects, and other academic exercises by misrepresenting or passing off the ideas, words, formulas, or data of another as one's own. Examples include but are not limited to: incorporating verbatim or nearly verbatim portions of other sources into assignments without using quotation marks and specifying the sources of the material; incorporating ideas from other sources into assignments without acknowledging the source of the ideas.
4. Possessing course examination materials before the administration of the exam, without the prior knowledge or consent of the instructor.
5. Intentionally evading IUP academic policies and procedures; for example, improperly processing course withdrawals, grade changes, or other academic procedures.
6. Falsifying information, including forging signatures on various forms and documents, or altering or adding answers on academic exercises or exams after work has been graded.
7. Computer dishonesty, including: tampering with or making unauthorized change to another person's or the university's computer system, illegally copying computer software, any use of another person's computer account, unauthorized activity involving another individual's personal computer system or any system belonging to the university, and other unauthorized use or violations involving computer use.
8. Noncompliance: failure to follow through with sanction(s) imposed as a result of an academic violation.

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Academic Policies

C. Procedures

Charges of academic dishonesty may be brought by faculty members or administrators. Students who observe or become aware of an incident of academic dishonesty by another student are strongly encouraged to report it to a university official. *Sanction(s) may not be imposed upon a student believed to have engaged in academic dishonesty without following one of the processes outlined in this policy.* A faculty member or administrator who believes that a student has violated an academic policy may elect any of the following procedures to resolve the matter:

1. Option I: Informal Resolution

a. The faculty member or administrator and student may meet informally within five class days of the observation or discovery of the incident and agree to resolve the issue without submitting any formal documentation. It is recommended that the faculty member or administrator complete a statement that summarizes the conference which led to the resolution. This factual statement should be signed by both parties and copies provided to the student and the faculty member or administrator. If agreement cannot be reached, or at the discretion of the faculty member, a more formal process as outlined in this policy may be initiated.

2. Option II: Resolution by Documented Agreement

a. The faculty member or administrator may schedule a conference with the student in an attempt to agree on the facts of the case and to reach a mutually agreeable resolution. This meeting must be scheduled/requested within five class days of the observation or discovery of the alleged violation or of the failure of resolution by Option I. If an agreement is reached, the faculty member or administrator must complete a Documented Agreement Form outlining the agreement and have it signed by both parties. Copies are distributed to the student, the faculty member or administrator filing the agreement, and the assistant to the vice president for Student Affairs. The form must be filed within five class days of the conference.

b. Once the agreement has been reached and the form is filed, the matter is closed. **By signing off on the agreement, the student is waiving the right to appeal the sanctions agreed upon in the conference.** If the student fails to fulfill the written agreement, the faculty member or administrator may file an academic dishonesty referral against the student for noncompliance.

c. If a documented agreement resolution is reached, no formal academic violation report is filed. If this is the student's first offense, the resolution agreement remains part of the student's internal university record and is maintained on file as indicated in the recordkeeping section of this policy (See section F.2).

d. If a documented agreement is not reached, the faculty member or administrator should initiate the formal adjudication process by filing an academic dishonesty referral form with the assistant to the vice president for Student Affairs within five class days of the conference with the student.

3. Option III: Resolution by Formal Adjudication

A faculty member or administrator should pursue formal resolution of academic violations if:

- he/she cannot reach or chooses not to attempt a mutually agreeable resolution with the student regarding the facts of the case or sanctions to be imposed,
- he/she believes that suspension or expulsion is an appropriate sanction due to the severity of the violation, or
- the faculty member or administrator is aware that the student has previously violated this policy.

a. The faculty member or administrator should file an academic dishonesty referral form with the assistant to the vice president for Student Affairs within five class days of the observation or discovery of the violation, or within five class days of the documented agreement resolution conference if an agreement could not be reached. In any case, the referral must be filed no more than ten class days from the observation or discovery of the incident.

b. This referral must describe in detail the alleged violation and the recommended sanctions if the student is found to have violated the policy. Upon receipt of the academic dishonesty referral, the assistant to the vice president for Student Affairs will review the allegation and determine if the student has a previous violation. If the student has no previous violation, the assistant to the vice president for Student Affairs will notify the student of the allegation and instruct him/her to follow the adjudication procedures outlined in this section (C.3). If the student does have a previous violation, the assistant to the vice president for Student Affairs will instruct the student to follow adjudication procedures outlined under the Multiple Violations section (D.3) of this policy.

c. Within five class days of receiving notification of the allegation (first offense), the student must request that the department chair schedule a hearing to review the facts surrounding the allegation and recommended sanctions if the student is found to have committed a violation. This hearing will involve the student, the chair, and the faculty member; the chair may invite others if mutually agreeable. Guidelines for academic dishonesty hearings parallel those for judicial hearings found in the IUP judicial system policy. Refer to "General Guidelines for Judicial Hearings" in the judicial system information in the student handbook.

d. If the student fails to contact the department chair within the five class days to schedule the hearing, the sanction recommended by the person filing the referral will automatically be imposed. If the student fails to appear when a hearing has been scheduled, the hearing will be held in the student's absence and the department chair will render a decision based upon factual information presented by the faculty member.

e. Following the hearing, the department chair will render a decision based on the information presented at the hearing. Within five class days of the hearing, the department chair will forward a written report summarizing the hearing that includes the outcome, the factual basis for the decisions reached, the sanction(s) to be issued, and appeal procedures. Copies of this report will be sent to the student, the faculty member or administrator, and the assistant to the vice president for Student Affairs. The chair will retain a copy for departmental files.

f. In the event that a chairperson cannot or will not fulfill the above role, or in the event that the person filing the referral is an administrator or department chair, the assistant to the vice president for Student Affairs will determine the appropriate individual to fulfill the chair's role and inform the student.

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Academic Policies

D. Sanctions

1. The following sanctions may be agreed upon by the student and faculty member or administrator through informal resolution or documented agreement. They may also be imposed by the department chair, hearing officer, or the University Judicial Board through formal adjudication.
 - a. Single Grade Reduction:** Single Grade Reduction: Reduction of grade or failure on project, examination, quiz, or other academic exercise on which student is alleged to have cheated. (Requires the approval of the instructor of record.)
 - b. Course Grade Reduction:** Course Grade Reduction: Reduction of course grade or failure in the course. (Requires approval of the instructor of record.)
 - c. Constructive or Educational Task:** Constructive or Educational Task: A task which requires the student to examine his/her dishonest behavior and which may benefit the student, campus, or community.
 - d. Letter of Warning:** Letter of Warning: A warning letter may be issued indicating that the student has been found in violation of an academic policy and that failure to comply with policies in the future may result in further disciplinary action to be handled as a second offense. The letter of warning will remain in effect for a period of time as specified by the individual or board hearing the case.
 - e. Disciplinary Probation:** Disciplinary Probation: Disciplinary probation, which is for a period of time specified by the individual or board hearing the case, is an indication that a student's status at the university is seriously jeopardized. During the probationary period, if the student is found in violation of another IUP policy, a more serious sanction will be levied, including possible suspension from the university.
 - f. Other:** Other: Sanctions deemed appropriate and tailored to a specific violation as determined by the faculty member or administrator. Any reasonable sanction or combination of sanctions for a given violation may be agreed upon by the student and faculty member or administrator through informal resolution or documented agreement. They may also be imposed by the department chair, hearing officer, or the University Judicial Board through formal adjudication.
2. **Suspension and Expulsion**

The sanction of suspension can only be imposed on a student through direct action of the University Judicial Board or by recommendation of the faculty member or administrator or department chair to the assistant to the vice president for Student Affairs. Expulsion can be by a faculty member, department chair, or administrator but can only be imposed by the vice president for Student Affairs.

 - a. Suspension:** A student may be suspended from the university for a specified period of time, not to be less than the remainder of the current semester. Suspension requires that a student remove

him/herself from university premises, not attend classes or social activities, and not be present on university or Student Cooperative Association property during the period of suspension. Suspension can be recommended to the assistant to the vice president for Student Affairs by the department chair after the hearing with the student and faculty member or administrator or imposed by the University Judicial Board, a special interim board, or the vice president for Student Affairs.

b. Expulsion: Expulsion may be considered under any of the following circumstances: when there is a very serious violation of the academic integrity policy; when a student is proven to have violated the academic integrity policy on more than one occasion; or when a student appears before the board after already having been suspended. If expulsion is deemed the appropriate sanction by the department chair or administrator, by the University Judicial Board, or by the assistant to the vice president for Student Affairs, a recommendation may be made to the vice president for Student Affairs that the student be expelled from the institution. Expulsion from the institution is permanent.

3. Multiple Violations

a. Students found in violation of this policy through resolution by documented agreement or through formal adjudication will be informed by the assistant to the vice president for Student Affairs that subsequent violations may result in additional sanctions, including possible suspension or expulsion from the university.

b. If a student is found to have violated academic policies a second time, the assistant to the vice president for Student Affairs will notify the student that he/she will be required to appear before the University Judicial Board or special interim board. The faculty member or administrator who filed the second referral will be asked to present information concerning the alleged violation to the board.

c. The board will review all material and hear all the information pertinent to the second violation. If the student is found in violation of the policy a second time, the board will then review all material from the student's previous academic violation to determine appropriate sanction(s).

d. The student may appeal the decision or the sanction(s) to the vice president for Student Affairs using procedures outlined in the Appeals section (E.1) of this policy. The vice president may deny or uphold the appeal or direct the appeal to be heard by a special interim board or the University Judicial Board.

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Academic Policies

E. Appeals

Cases of academic dishonesty that are resolved through informal resolution or documented agreement cannot be appealed, as the facts of the case, the decision, and sanction(s) have been agreed to by the student and the individual making the charge. These appeal procedures apply to cases resolved through formal adjudication..

1. If after receiving the department chair's report on the outcome of the hearing, the student disagrees with the decision, the sanction, or both, he/she may appeal to the vice president for Student Affairs within five class days of receiving the report. This appeal must be in writing and must describe in detail the grounds for the appeal. These reasons may include the following:
 - a. Denial of a fair and reasonable hearing
 - b. New evidence (applies when there is an acceptable reason why the information was not presented at the original hearing)
 - c. Excessively harsh sanctions
2. If the student does not appeal within the five-class-day period, the recommended sanction will be automatically imposed. The faculty member may also appeal a decision of the department chair. The appeal procedures are the same as those previously outlined for the student.
3. The vice president for Student Affairs may deny or uphold the appeal or direct the appeal to be heard by a hearing officer, a special interim board, or the University Judicial Board. The hearing officer or the UJB may accept, modify, or reduce the recommended sanction.
4. Within five class days of the appeal hearing, the hearing officer/UJB must submit a written report of the decision to the student, faculty member, department chair, and the vice president for Student Affairs. The decision of the hearing officer/UJB is deemed final and will be implemented by the vice president for Student Affairs.
5. Appeals to the sanction of expulsion must be submitted to the Office of the President. If necessary, the president will consult with legal counsel in these cases.

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Academic Policies

F. Records and Recordkeeping

1. **Records of Informal Resolution**

Although no official forms are filed at this level of resolution, it is strongly recommended that a faculty member or administrator who reaches an informal agreement with a student put the agreement in writing, give the student a copy, and keep a copy for his/her files.

2. **Records of Resolution by Documented Agreement**

The records of documented agreement resolution forms are maintained by the assistant to the vice president for Student Affairs. They are not considered formal disciplinary records until and unless the student is found in violation of this policy a second time. They are internal university records used for monitoring students for multiple violations only. If a second documented agreement form is filed or a student is found in violation of the policy through formal adjudication, the student will then have a formal disciplinary record which includes records of both violations. This formal record is maintained according to the IUP judicial system recordkeeping policies.

3. **Records of Formal Adjudication**

Records of academic dishonesty cases resolved through formal adjudication are kept on file in the Office of the Assistant to the Vice President for Student Affairs. They are maintained as formal disciplinary records in accordance with IUP judicial system recordkeeping policies.

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Academic Policies

G. Operational Notes

1. In cases where a violation is alleged at or near the end of the semester and resolution by informal resolution, documented agreement, or formal adjudication cannot be completed before grades are submitted, the faculty member should submit a grade of "Incomplete" (I) for the student. The "I" grade will remain on the student's record until the case has been resolved. Once the case has been resolved, the "I" grade will be replaced with the appropriate grade.
2. If the violation is alleged during the semester when classes are in session, the accused student should continue attending all classes and continue to complete course requirements during the resolution of the academic dishonesty case.
3. The assistant to the vice president for Student Affairs may extend any deadline which cannot be met for what he/she deems legitimate reason.

The various forms described in this policy are available from the assistant to the vice president for Student Affairs, 215A Sutton Hall, deans' offices, or from the department chairs. Questions concerning the Academic Integrity Policy can be directed to the assistant to the vice president for Student Affairs, 215A Sutton Hall.

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Requirements for Graduation

Undergraduate students at IUP may pursue programs of study in any one of the six undergraduate colleges: the Eberly College of Business, the College of Education, the College of Fine Arts, the College of Health and Human Services, the College of Humanities and Social Sciences, or the College of Natural Sciences and Mathematics. A student may earn the degree of Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, or the Bachelor of Science in Education. To do so, the student must satisfy all of the degree requirements, which fall into three categories:

1. university requirements
2. college requirements
3. department requirements.

Requirements of the latter two categories may be found under the college and the department in which the student is pursuing a program of study.

University requirements for graduation in all curricula consist of Liberal Studies requirements, residency requirements in regard to awarding of degrees, and the semester-hour and cumulative quality-point average requirements.

Exception: Students who enrolled in a degree program prior to June 1, 1989, are not subject to Liberal Studies requirements; they will complete degree requirements including the General Education components outlined in earlier editions of the Undergraduate Catalog. Transfer students entering the university between June 1, 1989, and June 1, 1991, were assigned either to General Education or Liberal Studies at the time their transcripts were evaluated. All transfer students admitted after June 1, 1991, are subject to the Liberal Studies requirements.

A student may earn a second undergraduate degree by completing a minimum of thirty additional credits. (See Second Baccalaureate Degree.) It is not possible to receive two or more baccalaureate degrees simultaneously. However, a student may complete one or more secondary majors while earning the primary degree.

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Requirements for Graduation

Academic Life during the Freshman Year

During the Summer Orientation, as described in the section on orientation, students meet with faculty advisors to plan a program of courses for their first year. This careful planning considers students' individual preferences, the results of placement testing, and degree program requirements.

With a typical freshman academic schedule, students progress both in the universitywide Liberal Studies program and in their intended majors.

Three Liberal Studies courses are designed especially for freshmen, and all students are expected to complete these courses during their first year. The three are [EN101](#): College Writing, [HI195](#): History: The Modern Era, and one course from a list of Fine Arts selections.

College Writing enhances skills in written expression that are essential to success at the university. History: The Modern Era builds critical thinking skills and provides a foundation of knowledge for subsequent courses. Whichever fine arts course is chosen encourages an appreciative participation in campus cultural life.

Professors teaching these courses work cooperatively with each other and with Student Affairs Division staff to integrate class work with campus lectures and arts events. Study skills development and tutoring services are also provided as necessary.

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Requirements for Graduation

Semester Hour and Cumulative Quality-Point Average Requirement

Each student must complete a minimum of 124 semester hours to graduate, including 53 hours in Liberal Studies (all on a passing basis) and must have a 2.0 ("C" grade) cumulative quality-point average and a 2.0 ("C") average in his/her major and/or minor field.

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Requirements for Graduation

Liberal Studies

All students must fulfill the requirements of the university's Liberal Studies program. This involves a minimum of 53 semester hours divided among Learning Skills, Knowledge Areas, and Synthesis. The number of semester hours may rise slightly depending on student choices. Different colleges and sometimes departments within colleges may have specific variations as to how these Liberal Studies requirements are to be met.

Liberal Studies provides the broad vision and understanding that enable individuals to enjoy full, rich lives and to play constructive roles in their communities. The goals for Liberal Studies include

- (1) the development of important modes of thinking and intellectual skills: critical thinking, literacy, understanding numerical data, historical consciousness, scientific inquiry, ethical perception, and aesthetic sensitivity
- (2) the acquisition of a body of knowledge or understanding essential to an educated person
- (3) an understanding of the physical, as well as the intellectual, nature of human beings.

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Requirements for Graduation

Liberal Studies Requirements

Note: Specific courses may be required or recommended by colleges or major departments; see degree program outlines for specifications.

Additional courses may be added to some categories during the next academic year; an updated listing is printed in each semester's schedule of undergraduate course offerings.

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Requirements for Graduation

English Composition: Two Courses 7sh

Learning Skills:

EN101	College Writing	4
EN202	Research Writing (sophomore standing)	3

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Requirements for Graduation

Mathematics: One Course from List 3-4sh

Learning Skills:

MA101	Foundations of Mathematics	3
MA102	Finite Mathematics [inactive]	3
MA110	Elementary Functions	3
MA121	Calculus I for Natural and Social Sciences and Business	4
MA123	Calculus I for Physics and Chemistry	4
MA127	Calculus I	4
MA151	Elements of Math I (restricted to designated majors)	3
MA152	Elements of Math II (restricted to designated majors)	3
MA217	Probability and Statistics	3
BE111	Business Mathematics (restricted to designated majors)	3

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Requirements for Graduation

Humanities: Three Courses*

9sh

*One course in history, one in literature, and one in philosophy or religious studies.

History:

[HI195](#) History: The Modern Era 3

Literature:

[EN121](#) Humanities: Literature 3

[FL121](#) Humanities: Literature (taught in English) 3

[EN210](#) Literary Analysis (English and Communication majors) 3

Philosophy or Religious Studies:

[PH101](#) Informal Logic: Methods of Critical Thinking 3

[PH120](#) Introduction to Philosophy 3

[PH221](#) Introduction to Symbolic Logic 3

[PH222](#) Ethics 3

[PH223](#) Philosophy of Art 3

[RS100](#) Introduction to Religion 3

[RS110](#) World Religions 3

[RS250](#) Understanding the Bible 3

[RS290](#) Christianity 3

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Requirements for Graduation

Fine Arts: One Course from List 3sh

AH101	Introduction to Art	3
MH101	Introduction to Music	3
TH101	Introduction to Theater	3
TH102	Introduction to Dance	3

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Requirements for Graduation

Natural Science: Option One

8-10sh

Option I:

Two-semester Laboratory Course Sequence

8sh

Two courses with laboratories (4sh each), paired together in a sequence, from the natural science laboratory course list.

Natural Science Laboratory Sequences:

BI103 and BI104	General Biology I and II	8
CH101 and CH102	College Chemistry I and II	8
CH111 and CH112	General Chemistry I and II	8
CH113 and CH114	Concepts in Chemistry and Basic Inorganic Chemistry	8

Two of the following three, in any order:

GS101/GS102	The Dynamic Earth with lab	4
GS103/GS104	Oceans and Atmospheres with lab	4
GS105/GS106	Exploring the Universe with lab	4
GS111/GS112	Earth Science for Educators I with lab and	
GS113/GS114	Earth Science for Educators II with lab	8
GS121/GS122	Physical Geology with lab and	
GS131/GS132	Historical Geology with lab	8
PY111/PY121 and PY112/PY122	Physics I and II with labs	8
PY131/PY141 and PY132/PY142	Physics I and II with labs (calculus)	8
SC105 and SC106	Physical Science I and II (either order)	8

Requirements for Graduation

Natural Science: Option Two

8-10sh

Option II:

One Laboratory plus Two Nonlaboratory Courses 10sh

One course with laboratory (4sh) from the natural science laboratory course list followed by two courses (3sh each) from natural science nonlaboratory course list. One of the nonlaboratory courses may be counted again among the Liberal Studies Electives.

Natural Science Laboratory Courses:

BI103	General Biology I	4
CH101	College Chemistry I	4
CH111	General Chemistry I	4
CH113	Concepts in Chemistry	4
GS101/GS102	The Dynamic Earth with lab	4
GS103/GS104	Oceans and Atmospheres with lab	4
GS105/GS106	Exploring the Universe with lab	4
GS111/GS112	Earth Science for Educators I with lab	4
GS113/GS114	Earth Science for Educators II with lab	4
GS121/GS122	Physical Geology with lab	4
GS131/GS132	Historical Geology with lab	4
PY111/PY121	Physics I	4
PY131/PY141	Physics I (calculus)	4
PY151/PY161	Medical Physics	4
SC105	Physical Science I	4
SC106	Physical Science II	4

Natural Science Nonlaboratory Courses:

BI114	Environmental Science	3
BI115	Biotic Diversity of North America	3
GS101	The Dynamic Earth	3
GS103	Oceans and Atmospheres	3
GS105	Exploring the Universe	3
GS111	Earth Science for Educators I	3

GS113	Earth Science for Educators II	3
GS121	Physical Geology	3
GS131	Historical Geology	3
GS141	Introduction to Ocean Science	3
GS150	Geology of National Parks	3
GS151	The Age of Dinosaurs	3
GS221	Physical Resources of the Earth	3
PY101	Energy and the Environment	3
PY111	Physics I	3
PY112	Physics II	3
PY131	Physics I (calculus)	3
PY132	Physics II (calculus)	3
PY151	Medical Physics	3

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Requirements for Graduation

Social Sciences: Three Courses from List* 9sh

*No course prefix may be used more than once

AN110	Contemporary Anthropology (1)	3
AN211	Cultural Anthropology (1)	3
AN213	World Archaeology	3
CR101	Crime and Justice Systems	3
EC101	Basic Economics	3
EC121	Principles of Economics I	3
GE101	Intro to Geography: Human Environment Interaction	3
GE102	Geography of U.S. and Canada	3
GE104	Geography of Non-Western World (1)	3
PS101	World Politics (1)	3
PS111	American Politics	3
PC101	General Psychology	3
SO151	Principles of Sociology	3
SO231	Contemporary Social Problems	3

(1) Also fulfills requirement for non-Western course

Requirements for Graduation

Health and Wellness: One Course 3sh

HP143	Health and Wellness	3
FN143	Nutrition and Wellness	3

An alternate method of fulfilling this requirement is the completion of one year of Military Science/ROTC: [MS101](#) American Military History (1650-1920) and Lab (2sh) and [MS102](#) American Military History (1920-present) and Lab (2sh). The courses [MS203](#) and [MS204](#) may be substituted for MS101 and MS102. Veterans are given four credits toward these requirements by validating two years' active duty via form DD214.

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Requirements for Graduation

Liberal Studies Electives: Three Courses from List*

9sh

*At least one course must be numbered 200 or higher

*No course carrying the student's major prefix may be used

*No course prefix may be used more than once, except for intermediate-level foreign language prefixes (FR, GM, SP, LA, and GK) which may be used twice.

See list of nonlaboratory natural sciences for additional courses which may be used as Liberal Studies electives.

See list of Non-Western Cultures courses, some of which may be used as Liberal Studies Electives.

The following courses are also approved:

AH205	Ancient to Medieval Art	3
AH206	Renaissance to Baroque Art	3
AH211	Modern Art	3
AH222	Art in America	3
AN286	Marriage, Kinship, and the Family (same as SO286)	3
BE101	Microbased Computer Literacy (same as CO101 , IM101)	3
BE201	Internet and Multimedia (identical to CM/CO/IM/LB 201)	3
CM101	Communications Media in American Society	3
CM201	Internet and Multimedia (identical to CM/CO/IM/LB 201)	3
CM380	History of African Americans in Film and TV	3
CO101	Microbased Computer Literacy (same as BE101 , IM101)	3
CO201	Internet and Multimedia (identical to CM/CO/IM/LB 201)	3
CS101	Personal and Family Management	3
CS315	Consumer Economics and Family Finance	3
EC122	Principles of Economics II	3
EN349	English Bible as Literature	3
FN145	Introduction to Nutrition	3
FR201	College French I (2)	3
FR202	College French II (2)	3
FR203	Accelerated College French	6

FR301	Portraits of Women in French Novels	3
GE230	Cultural Geography	3
GE231	Economic Geography	3
GE251	Geography of Pennsylvania	3
GE253	Geography of Europe	3
GM251	German III (2)	3
GM252	German IV (2)	3
HE218	Child Development	3
HE224	Marriage and Family Relations	3
HI210	Ancient Civilizations of Mediterranean and Near East	3
HI212	Ancient and Medieval Europe	3
HI214	Themes in American History	3
HI305	Renaissance and Reformation	3
HI355	African History I (Antiquity to 1600)	3
HI363	Thought and Culture in Early America	3
HI364	Thought and Culture in Modern America	3
HI366	African-American Women	3
IM101	Microbased Computer Literacy (same as BE101 , CO101)	3
IM201	Internet and Multimedia (identical to CM/CO/IM/LB 201)	3
JN250	Women and the Press	3
JN375	World News Coverage	3
LA102	Elementary Latin II	4
LA201	Intermediate Latin (2)	4
LB201	Internet and Multimedia (identical to CM/CO/IM/LB 201)	3
MA121	Calculus I (1)	4
MA122	Calculus II	4
MA123	Calculus I (1)	4
MA124	Calculus II	4
MA152	Elements of Mathematics II (1) (specified majors only)	3
MA214	Probability and Statistics	3
MA216	Probability and Statistics	4
MA217	Probability and Statistics (1)	3
MA241	Differential Equations	3
MH301	Music History I	3
MH302	Music History II	3
PC310	Development Psychology	3

PC321	Abnormal Psychology	3
PC330	Social Psychology	3
PC378	Death and Dying	3
PH232	Philosophical Perspectives on Love and Marriage	3
PH321	Symbolic Logic II	3
PH323	Political Philosophy	3
PH324	History of Philosophy I	3
PH325	History of Philosophy II	3
PH326	Phenomenology and Existentialism	3
PH330	Philosophy of Science	3
PH400	Ethics and Public Policy	3
PH405	Justice and Human Rights	3
PH420	Metaphysics	3
PH421	Theory of Knowledge	3
PH450	Philosophy of Law	3
PH460	Philosophy of Language	3
PS346	Political Sociology	3
RS200	Religion and Culture	3
RS210	World Scriptures	3
RS260	American Religious Development	3
RS312	Archaeology and the Bible	3
RS329	Philosophy of Religion	3
RS410	History of Christian Thought I	3
RS440	History of Christian Thought II	3
SO286	Marriage, Kinship, and the Family (same as AN286)	3
SO337	World Societies and World Systems	3
SO340	Sociology of Industry	3
SO362	Racial and Ethnic Minorities	3
SO362	Sociology of Sex and Gender	3
SO445	Social Stratification	3
SO458	Political Sociology (same as PS346 Political Sociology)	3
SP102	Elementary Spanish II	4
SP122	Spanish for Health Care Professionals II	3
SP132	Spanish for Hospitality Industry II	3
SP201	Intermediate Spanish (2)	4
SP211	Intensive Intermediate Spanish (formerly SP201)	6

- (1) Students may use this course to fulfill either the Learning Skills: Mathematics requirement, or a Liberal Studies Elective requirement, but not both.
 - (2) Higher-level language courses may be substituted by students demonstrating such ability on placement tests.
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Requirements for Graduation

Non-Western Cultures: One Course from List 3sh*

*Students must fulfill this requirement by completing one course from the list; most of these courses will at the same time fulfill other requirements set by Liberal Studies or in some cases by a college or department.

Also fulfills LS Social Science requirement:

AN110	Contemporary Anthropology	3
AN211	Cultural Anthropology	3
GE104	Geography of Non-Western World	3
PS101	World Politics	3

Also fulfills LS Elective requirement:

AN271	Cultural Area Studies: Africa (same as SO271)	3
AN272	Cultural Area Studies: China (same as SO272)	3
AN273	Cultural Area Studies: Southeast Asia (same as SO273)	3
AN274	Cultural Area Studies: Latin America (same as SO274)	3
AN314	Native Americans (same as SO314)	3
AN350	Anthropology of Women	3
AN365	Native North American Religions (same as RS365)	3
CM230	Issues in International Communication	3
EC350	Comparative Economic Systems	3
GE252	Geography of Latin America	3
GE254	Geography of Russia and the Soviet Sphere	3
GE255	Geography of Africa	3
GE256	Geography of East Asia	3
GE257	Geography of South and Southeast Asia	3
HI327	Soviet Union and Contemporary Russia	3
HI330	History of the Islamic Civilization	3
HI331	Modern Middle East	3
HI356	African History II (1600 to present)	3
HI367	Native American History	3
IS281	Special Topics in Non-Western Studies	3
PS382	Political Systems: Africa	3

PS387	Political Systems: Latin America	3
PS389	Developing Nations	3
RS311	Eastern Philosophy	3
RS360	African Religions	3
RS365	Native North American Religions (same as AN365)	3
RS370	Religions of China and Japan	3
RS375	Religions of India	3
RS380	Islam	3
SO271	Cultural Area Studies: Africa (same as AN271)	3
SO272	Cultural Area Studies: China (same as AN272)	3
SO273	Cultural Area Studies: Southeast Asia (same as AN273)	3
SO274	Cultural Area Studies: Latin America (same as AN274)	3
SO314	Native Americans (same as AN314)	3
SP244	Modern Mexico	3
SP344	20th Century Spanish American Culture & Civilization (taught in Spanish)	3
SP364	Survey of Spanish American Literature (taught in Spanish)	3

Fulfills LS Non-Western requirement only:

CL151 , CL201 , or CL251	Arabic II, III, or IV	3
CL152 , CL202 , or CL252	Chinese II, III, or IV	3
CL155 , CL205 , or CL255	Hindi II, III, or IV	3
CL156 , CL206 , or CL256	Hungarian II, III, or IV	3
CL158 , CL208 , or CL258	Japanese II, III, or IV	3
CL159 , CL209 , or CL259	Korean II, III, or IV	3
CL162 , CL212 , or CL262	Russian II, III, or IV	3
EC339	Economic Development I	3

Certain Study Abroad programs in non-Western culture areas are offered (information is in the respective catalog section; further information is available in the Office of International Services).

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Requirements for Graduation

Synthesis: One Course

3sh

[LS499](#) Senior Synthesis (required of all students)

3

Prerequisite: 73 or more semester hours earned

This course helps students understand and handle complex intellectual and social issues from multiple perspectives. A selection of topics is available each semester and summer session. Students should schedule the course during the senior year, or at least no earlier than the last half of the junior year. In order to broaden their experiences, students are encouraged to enroll in synthesis sections taught by instructors outside of the students' major fields.

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Requirements for Graduation

Writing Across the Curriculum: Minimum of Two W Courses

All students must include among the total courses required for graduation a minimum of two designated writing-intensive courses. One of these courses must be in the student's primary major; the other(s) may be in Liberal Studies, college or major requirements, or free electives. Such courses, which involve extensive use of writing as part of the learning experience, are identified with a /W/ in each semester's Schedule of Undergraduate Course Offerings.

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Requirements for Graduation

Eligibility and Application for Graduation

Commencement ceremonies are in May at IUP at the conclusion of the spring semester and in December at the conclusion of the fall semester. Only students who have completed all requirements for graduation by the end of the semester are eligible to participate in the commencement exercises. Students who have withdrawn from courses or have elected to take incompletes or have failed courses during the semester and thus have not met the requirements for graduation may not participate in commencement exercises until those requirements have been fulfilled. Students completing requirements in August or December are included on the graduation list for the December graduation.

Students are responsible for knowing and fulfilling the requirements for graduation in their degree program. It is the student's responsibility to complete a form to apply for graduation and submit it to the office of the dean of his/her college early in the term prior to graduation.

Certification for graduation is not final until approved by the dean of the college in which the student is enrolled. Diplomas will not be issued until all bills and obligations have been satisfied, including the degree fee, and final certification for graduation has been issued by the student's college dean.

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Requirements for Graduation

Pre-Approval for Transfer Coursework

Students enrolled at IUP who wish to take coursework at another institution (either during the summer or regular semesters) must complete an Application for Coursework Outside IUP prior to taking the course(s). Only the credits from the course(s) transfer, not the grade; therefore, students cannot use outside coursework for IUP's repeat policy. Only the credits for which students receive the grade of A, B, or C will transfer. If P/F is the only grading option available, there must be a narrative evaluation from the faculty member certifying that the work was of C level or better. No more than sixty credits total may be earned at a junior or community college for application toward an IUP degree. If the courses are being taken within the student's last thirty credits, the courses must be taken at IUP unless the student's residency requirement for awarding of degrees is waived by the college dean. Courses without prior approval are taken at the risk of the student; there is no obligation on the part of any officer of this university to accept or transfer such credit.

Forms for approval of off-campus coursework are available in the Office of Transfer Credit Evaluation/Admissions Office. Full directions on the form outline the steps involving the transfer evaluation, student's advisor, and college dean, or designee. After completing off-campus coursework, students should have the institution at which the work was taken send a final official transcript directly to Transfer Evaluation Services, 216 Pratt Hall, IUP, Indiana, PA 15705. Copies of transcripts issued to or hand carried by students will not be accepted.

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Requirements for Graduation

Residency Requirement for Awarding of Degrees

All students receiving an initial IUP baccalaureate degree are required to complete 45 semester hours in IUP courses. At least 15 semester hours in IUP courses are required to fulfill an IUP major and a minimum of six semester hours for a minor. Normally, the student will complete the final 30 semester hours in residence in IUP courses, unless specific approval has been secured from the dean of the student's college. Exception to the above requirements for courses to be earned in residence at IUP may be granted by the college deans based upon the appropriateness and academic integrity of the courses in question. This approval is generally sought as part of the process for prior approval of off-campus coursework.

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Requirements for Graduation

Non-Native Students: English Language Requirements

Non-native students of English, either international students or those from the U.S. for whom English is not their first learned language, are required to take an ESL Screening/Placement Test prior to registration in the first semester attending IUP. The test is administered prior to registration in both the fall and spring semesters. Results of this test are used to determine for which English course ([EN100/ESL](#), [EN101/ESL](#), [EN202/ESL](#), [EN121/ESL](#)) a newly admitted non-native student must register. In addition, any currently enrolled non-native student can take the regularly scheduled test to determine registration for non-ESL English courses. For further information, contact Chair, English Department, 412-357-2261.

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Requirements for Graduation

Program Changes

To insure their quality and relevance, academic programs at IUP are subject to review and change by duly appointed and responsible university groups. Because of this, the university recognizes that provisions must be made to prevent hardship to students already enrolled in programs if changes later occur in specific or general program requirements. Students affected by changes in programs, policies, and regulations are therefore given the option of following those requirements that are in effect when the student was first enrolled in the program or those in effect at the time of expected graduation. The student cannot, of course, combine chosen elements of the two. Should a question of rule interpretation arise with respect to changes, the student, the student's advisor, or both should petition the college dean for a decision about which requirements apply.

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Requirements for Graduation

Timely Completion of Degree Requirements

The minimum total semester hour requirement for a baccalaureate degree at IUP is 124. Students who enroll in degree programs that require more than 124, or who seek the added benefit of a double major, minor, or specialized program, or who change majors should plan their sequence of courses carefully with an advisor. Such students should be alert to the possibility that they may need to carry a heavier than average class load in order to complete the degree in eight semesters. In some situations, summer work or an extra semester may be necessary. The need to enroll in remedial or other preparatory coursework or to repeat courses may also affect progress toward a degree.

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Requirements for Graduation

Undergraduate Catalog Applicability Time Frame

The university reserves the right to modify degree requirements through established governance channels. However, the general policy has been established that the following time frame regulations form the basis for application of the university's undergraduate degree requirements:

1. A student who has been in continuous registration (fall and spring semesters) or who has interruption(s) of less than two calendar years is governed by the requirements outlined in the catalog in effect at the time of entrance into a degree program (major).
 - a. A student who changes major will be governed by the requirements of the major and/or college at the time of acceptance into the new major, without change of Liberal Studies requirements except as specified by the new major.
 - b. A student entering through the nondegree program is governed by the requirements in effect at the time degree candidacy is awarded.
 - c. A part-time student may be covered by these provisions of continuous registration to a maximum of ten years.
2. A student whose education is interrupted by two or more calendar years will be governed by the requirements in effect at the time of readmission to the university. The readmission may carry specific requirements/substitutions necessary to provide for program integrity.
3. The applicability of coursework completed more than ten years prior to the degree date is subject to review by the dean or designee for evaluation on a course-by-course basis.

Academic Affairs Division Areas

Introduction

The Academic Affairs areas below provide instruction in several disciplines that are not specific to one of the university's distinct colleges. They offer services and instruction under the direction of the Provost's Office.

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Academic Affairs Division Areas

The University Libraries

Larry A. Kroah, Director; Ronald A. Steiner, Chairperson; Brown, Connell, Glenn, Grassinger, Hooks, Janicki, Jen, Joseph, Kaufman, Kirby, Knupp, Laude, Lucas, McDevitt, Rahkonen, Shively, Zorich; and professors emeriti Chamberlin, Lafranchi, Scheeren, Snead, Wolf

The Libraries and Media Resources Department serves the informational and research needs of students and faculty by providing a wide variety of academic resources which include books, periodicals, micro materials, media, and computer data base services. The Library is committed to providing greater access to an ever-increasing volume of information, using such advancements as interactive video, satellite teleconferencing, microcomputer-based technologies, and a state-of-the-art online public access catalog, in addition to more traditional means.

The Library faculty offers individual and group assistance in using the Library's resources. Library services include access to both local and national data bases, media equipment and production support, and classes in bibliographic instruction.

The Library faculty offers a one-credit course in the use of libraries, [LB151](#): Introduction to Library Resources.

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Academic Affairs Division Areas

Robert E. Cook Honors College

Janet E. Goebel, Director

The Robert E. Cook Honors College enrolled its first freshman students for the 1996 fall semester. The college provides a challenging opportunity for academic and personal development through an integrated program of curriculum, residence, and cocurricular activities.

The faculty is drawn from the disciplines of history, English composition, philosophy, and fine arts to lead an integrated multidisciplinary approach. The Honors Core meeting daily spans the first three semesters; other honors courses, including some specific to departments, are being developed for later semesters.

Whitmyre Hall has been renovated into a combined honors residential/academic facility.

Applicants who may be interested in further information are invited to contact the university Admissions Office at 412-357-2230 or 1-800-442-6830 or the office of the Honors College in Whitmyre Hall at 412-357-4971.

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Academic Affairs Division Areas

Military Science

LTC Joseph A. Bukartek, Jr., Chairperson; CPT Bryan R. Thom, CPT Aaron A. Williams, SGM Garland Hill, SFC Richard B. Bouch, SFC Rafael U. Ortiz, SFC Folole F. Salanoa, SSG Ronald W. Quinlan, Mrs. Donna S. Rankin

IUP is an authorized Senior Reserve Officer Training Corps (ROTC) unit. The ROTC program offers to both men and women the opportunity to learn and practice leadership and managerial techniques that will prove beneficial to all life's future endeavors; to obtain credits which count toward graduation; and, to those who choose to complete the total program, to obtain a commission as a second lieutenant in the U.S. Army.

Regular ROTC classes for two semesters satisfy the mandatory Liberal Studies requirement for Health and Wellness classes.

Enrollment

The program is divided into two phases: the Basic Course (freshman and sophomore years) and the Advanced Course (junior and senior years).

Regular Basic Course

The first two years of military science provide a background of the historical role of military forces as well as current national military objectives. In addition, basic leadership is developed and certain skills are taught, such as adventure training, survival training, map reading, self-defense, rappelling, and marksmanship. Enrollment in any of the freshman- or sophomore-level ROTC courses ([MS101](#), [MS102](#), [MS203](#), or [MS204](#)) in no way obligates or commits the student to any military service or any further ROTC courses. These courses are offered on the same basis as other academic courses at IUP with the privilege of withdrawing at any time.

Advanced Course

The last two years constitute the Advanced Course of instruction for men and women who desire a commission as a second lieutenant in the United States Army. This phase is composed of studies in advanced leadership and management, tactics, military law, and psychological, physiological, and social factors which affect human behavior. Modern instructional and training techniques are also covered. Practical application is the rule, and students have the opportunity to practice and polish their skills. Participation in the Advanced Course will earn the student approximately \$3,500, between \$150-a-month subsistence and pay for summer camp (\$3,000 is not taxable). For continuation in ROTC during the junior and senior years, the student must have a 2.0 grade-point average in the student's academic area, have successfully completed requirements for the ROTC Basic Course, pass a physical examination, and be accepted by the Professor of Military Science. The U.S. Army requirements for commissioning include a course in written communications, in human behavior, and in military history. IUP students normally fulfill these requirements with [EN101](#), [EN202](#), and [HI281](#) and with a course in psychology, anthropology, sociology, or certain major courses in human behavior. Advanced course students must agree in writing to complete the junior and senior years, since they will receive \$150-a-month subsistence during these academic years.

Requirements for Enrollment

The general requirements for enrollment in Advanced ROTC are that the student be accepted by the university as a

regular enrolled student, be a citizen of the United States, be physically qualified, and be not less than seventeen years of age but less than thirty at anticipated graduation date. Veterans and Junior ROTC and Civil Air Patrol graduates may receive exemption from the ROTC Basic Course as approved by the Professor of Military Science.

What ROTC Offers

Equipment, ROTC textbooks, and uniforms are issued without cost to enrolled students.

Credit is given for successful completion of the 3-semester-hour Health and Wellness Liberal Studies requirement for graduation.

Students formally enrolled in the Advanced Course ([MS305](#), [MS306](#), [MS407](#), and [MS408](#)) are paid a subsistence allowance (\$150 a month) during the academic year.

Training is given in other practical skills such as self-defense, adventure training, rappelling, marksmanship, orienteering, first aid techniques, and water safety.

Opportunities are available to examine the military profession in detail. This includes the Regular Army, National Guard, and Army Reserve.

If students so desire and are accepted into the Advanced Course, they will receive commissions as second lieutenants upon graduation from the university and serve either three years' continuous active duty or two to three months' active duty for training, with the remaining obligation served in the Army Reserve or National Guard.

Program in Military Science

Required courses:

20

MS101	Introduction to Military Science	2sh (1)
MS102	Fundamentals of Military Science	2sh (1)
MS203	Fundamentals of Tactical Operations, Techniques of Leadership, and Weapons Characteristics	2sh (2)
MS204	National Security and Fundamentals of Military Topography	2sh (2)
MS305	Fundamentals of Leadership and Modern Learning/Teaching Relationship	3sh
MS306	Study of Advanced Leader Planning and Execution of Modern Combat Operations	3sh
MS407	Management of the Military Complex to Include Fundamentals of Military and International Law	3sh
MS408	Seminar in Military Analysis & Management	3sh

(1) [MS101-MS102](#) may substitute for the Liberal Studies requirement in Health and Wellness.

(2) [MS203-MS204](#) are available as free electives to all students without any military obligation.

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Academic Affairs Division Areas

Women's Studies Program

Maureen C. McHugh, Director

The Women's Studies minor is designed to examine the status and experiences of women from a multidisciplinary perspective. The courses use a variety of methods and disciplinary perspectives to explore the impact of gender on the experiences of the individual. Women's contributions to a variety of fields and the historical, literary, and cultural images of women are also addressed. Students are encouraged to challenge traditional theories and research regarding women and to develop a critical, multidisciplinary, multicultural, and gendered view of the world. Courses taught within the minor typically involve the students through innovative, experiential classroom exercises and written assignments. Courses in Women's Studies address social equity issues and encourage students to perceive themselves as capable of transforming society.

A minor in Women's Studies indicates to the prospective employer an awareness of and sensitivity to gender issues. This awareness may be needed in the following positions: personnel specialist, affirmative action officer, crisis intervention specialist, family and youth services provider, legal advocate. A minor in Women's Studies can contribute to success in a variety of fields including communication, counseling, criminology, education, health, journalism, law, politics, psychology, and applied sociology.

Minor - Women's Studies

15

Required course:

3

[WS200](#) Introduction to Women's Studies 3sh

Students receive approval for a specified course

of study from the following list of courses:

12

AN350	Anthropology of Women	3sh
CR390	Women and Crime	3sh
EN336	Language, Gender, and Society	3sh
EN336	Language, Gender, and Society	3sh
FR301	Portraits of Women in the French Novel	3sh
HI369	Women in America	3sh
HI390	History of Women-World Cultures	3sh
HP430	The American Woman and Sport	3sh
JN250	Women and the Press	3sh
PC379	Psychology of Human Sexuality	3sh
PC411	Psychology of Women	3sh

PH232	Philosophical Perspectives on Love, Marriage, and Divorce	3sh
SO363	Sociology of Sex and Gender	3sh
SO427	Spouse Abuse	3sh
WS482	Independent Study	var-1-3sh
XX481	Special Topics (1) (offered within department)	var-1-3sh
XX493	Internship (2)	var-1-3sh

(1) Examples of XX481 offered: AR481 Maidens to Madonna, BE481 Women and Business, RS481 Women and Religion, WS481 Special Topics in Women's Studies

(2) Internships (up to three credits) may be counted towards the minor.

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Academic Affairs Division Areas

Office of International Affairs

Laila S. Dahan, Director

Patrick A. Carone, Foreign Student Adviser

The Office of International Affairs (OIA) provides the leadership for Indiana University of Pennsylvania's involvement in a wide range of international activities.

The OIA is a central source of information which provides special services for admitted international students, visiting scholars, and international visitors and faculty. The office provides the following services to students:

- an extensive orientation program for new international students
- advising on immigration matters
- counseling on cultural and personal matters
- preparation and processing of immigration documents
- medical insurance information for international students and exchange/study abroad participants
- financial assistance to qualified students through the partial tuition waiver
- a predeparture orientation program for exchange and study abroad participants
- a reentry program for participants returning from exchange or study abroad

In addition, this office services the International Student Club, which links students to the larger community. The club provides an opportunity for international students to share their perspectives and cultural traditions with others in the university and in the community. The office also sponsors monthly coffee hours open to the university. Trips for international and exchange students to Niagara Falls and Washington, D.C., are arranged and partially funded through OIA.

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Academic Affairs Division Areas

International Exchange and Study Abroad Programs

Through the OIA, IUP students may broaden their education by taking part in study abroad programs. The university administers some of these programs directly, while others are conducted in cooperation with the International Student Exchange Program (ISEP).

The office houses an exchange/study abroad resource library. Students seeking information on academic programs offered by educational institutions in this country and abroad are welcome to read the materials available in the office. Qualified students planning to travel or study abroad may also purchase the International Student Identity Card—good for discounts, identification, and insurance—in the Office of International Affairs.

More information about each of the following programs and programs instituted after the date of this publication can be obtained in the Office of International Affairs, 343 Sutton Hall, 412-357-2295.

Colombia, Bogota. Students with Spanish fluency interested in Colombian culture have the opportunity to study for one semester or an academic year at the Universidad de Los Andes. Courses are offered in business and social science.

Costa Rica, Heredia. A four-week intensive Spanish language program is offered in the summer at the National University of Costa Rica. For details and brochures, contact the Department of Spanish and Classical Languages.

Egypt, Cairo. Students majoring in education, language, commerce, the arts and sciences, and the humanities and social sciences may study for a semester or an academic year at Ain Shams University. The language of instruction is English.

England, Bristol. Students wishing to enroll in courses in the areas of economics, politics, sociology, history, and European social studies may study during the fall semester at the University of the West of England, Bristol.

England, Greenwich. Students studying teacher education for preparation as elementary, early childhood, or physical education teachers are eligible to study at the University of Greenwich for one semester. (Some secondary certification programs are available.)

England, Oxford. A three-week educational and cross-cultural experience is offered in the summer at Oxford University.

England, Sheffield. Students studying business have the opportunity to study for a semester or academic year at Sheffield Hallam University. Interest in other academic areas may be explored.

England, Worcester. Students are offered an opportunity to study at Worcester College of Higher Education for one semester or an academic year. Courses are offered in a variety of fields of study.

Finland, Tampere. Students studying business or occupational safety are eligible to study at Tampere University of Technology for a semester or academic year. The language of instruction is English.

France, Nancy. The opportunity to study for one semester or academic year at the University of Nancy II (140 miles

from Paris) is available to qualified students. The language of instruction is French. For details, contact the French Department.

France, Nancy (summer). Two programs, one for English-speaking and one for French-speaking participants, are offered in the summer.

Germany, Duisburg. A semester or academic year program at the University of Duisburg is available to qualified students who possess the required German language competency. Courses are offered in German language, literature, culture, business, and natural sciences. The language of instruction is German. For further information, contact the German Department.

Hungary, Pecs. Students interested in Hungarian culture have the opportunity to study abroad for a semester or academic year at Janus Pannonius University. Courses are offered in the following areas: History of East-Central Europe, Political Development, Economic Reform, Social Change, Arts and Culture, and Central European Studies. The language of instruction is English.

Japan, Hirikata. The opportunity to study for a semester or one academic year at Kansai Gaidai University is available to students interested in Japanese culture. A variety of courses are offered in the Asian Studies Program. The language of instruction is English.

Jordan, Amman. Students interested in Jordanian culture have the opportunity to study for a semester or an academic year at the University of Jordan. Courses are offered in business management, accounting, nursing, language, education, and humanities.

Jordan, Irbid. Students interested in Jordanian culture may also study at Yarmouk University for a semester or academic year or may take intensive Arabic courses during the summer. Courses are offered in Arabic language, business, and political science.

Mexico, Cuernavaca. Students who are studying Spanish and have an interest in experiencing Mexican culture have an opportunity to participate in a summer study program that is offered at the Center for Bilingual and Multicultural Studies, an affiliate of the University of Morelos. For details and brochures, contact the Department of Spanish and Classical Languages.

Mexico, Puebla. Students wishing to enroll in courses in Spanish, business, international relations/studies, anthropology, and hotel and restaurant management with an interest in Mexican culture have the opportunity to study at the Universidad de las Americas, Puebla, for one semester or academic year. The language of instruction is Spanish.

Russian Federation, Ossetia. Students interested in Russian and/or Caucasian culture have the opportunity to study in the Republic of North Ossetia, located in the Caucasus Mountains of southern Russia. IUP students may study at North Ossetia State University for a semester or academic year. Courses are offered in archaeology, business and economics, education, fine arts, humanities and social sciences, and natural sciences and mathematics.

Slovakia, Bratislava. Courses in Slovak language, Slovak literature, culture, and history, English literature, English culture and history, political science, sociology, physics, and psychology are available to interested students at Comenius University. The program is for one semester or an academic year.

Spain, Barcelona. Juniors and seniors, fluent in Spanish, with an interest in experiencing Spanish culture, have an opportunity to enroll in management, marketing, and tourism classes at Escuela Superior de Marketing I Administration. The language of instruction is Spanish.

Spain, Valladolid. Students who have completed twelve university credits in Spanish and have an interest in experiencing Spain's culture have an opportunity to participate in the Pennsylvania Valladolid Study in Spain Program during the spring semester. This experience will enable students to spend a period of twenty weeks immersed in Spanish culture and language at the University of Valladolid. For details and brochures, contact the Department of Spanish and Classical Languages.

Sweden, Karlstad. Students wishing to enroll in geography and tourism courses with a desire to experience Swedish culture are invited to study at the University of Karlstad. The language of instruction is English.

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Academic Affairs Division Areas

International Student Exchange Program

The International Student Exchange Program offers a wide range of educational and cultural experiences for one semester or academic year for participants at over one hundred institutions in thirty-five different countries. (Summer and longer exchanges are also possible.) If you do not speak a foreign language, you still have many sites in which the language of instruction is English. If you do speak a foreign language, you have even more options.

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Academic Affairs Division Areas

National Student Exchange

Under this program, Indiana University of Pennsylvania is part of a national university network that enables our undergraduate students to study for up to one academic year at any of over one hundred colleges and universities. In addition, this exchange of students enables IUP students to enroll at any of these universities without having to pay out-of-state, nonresident tuition fees. While on exchange, students have the opportunity to experience a different learning environment, to broaden social and cultural awareness, and to live in another part of the United States. (Alaska, Guam, Hawaii, Puerto Rico, and the Virgin Islands are included.)

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Academic Affairs Division Areas

International Student Teaching Opportunities

IIUP students enrolled as teacher education majors in all certification areas are eligible to participate in this half-semester student teaching program in the following areas: Copenhagen, Denmark; Dublin, Ireland; London, England; Munich, Germany; and Paris, France.

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Academic Affairs Division Areas

The Harrisburg Internship Semester (T.H.I.S.)

Experiential Education Office

The Harrisburg Internship Semester is available to an exceptional student from any IUP major for the fall or spring semester. The program provides a semester-long experience at the policymaking level in the executive or legislative branches of state government as well as independent boards, agencies, or commissions. Students will earn fifteen credits.

Requirements for eligibility are fifty-seven or more earned credits and an overall QPA of at least 3.0. Applicants must also submit a sample of their writing skills which must be a copy of an IUP writing assignment that has been graded by an instructor.

T.H.I.S. consists of an internship with a research project for twelve credits and an academic seminar for three credits. The program is directed by a SSHE faculty member elected to direct the program in Harrisburg. The faculty member will be the site supervisor and teach the seminar course. Grades and credits will be recorded on the students' academic progress reports at IUP. See the course descriptions under [UN480](#) and [UN493](#).

Housing is arranged at the PolyClinic Hospital in its nursing residence hall. Meals are available in the hospital dining room or elsewhere. Students must pay IUP tuition, room, and board in the first place and then be partially reimbursed via a biweekly paycheck during the semester. Students must pay their own transportation costs between their home and Harrisburg.

T.H.I.S. is offered through the Experiential Education Program in conjunction with the academic department of the successful candidate. Applications are submitted to the Experiential Education Office, Sutton Hall. Deadline for submission for fall is March 1; the spring semester deadline is October 1.

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Academic Affairs Division Areas

The IUP Academy of Culinary Arts at Punxsutawney

Albert Wutsch, Director;

Hilary DeMane, Timothy Brown, Gary Fitting, Dan Kish, Clifford Klinger, and Thomas Vieli, Chef Instructors

Mindy Wygonik, Business Instructor

The Academy of Culinary Arts offers a four-semester (sixteen calendar months), competency-based program with the last semester being a paid externship with an employer. This distinctive association involving hands-on discipline, fundamental culinary theory, and on-the-job work experience provides each student with the necessary skills and knowledge to begin a successful career in the field of culinary arts.

This contemporary approach to learning will enable students to achieve elevated levels of proficiency in both culinary techniques and business management skills while they advance through this certificate program. The Academy of Culinary Arts is accredited by the American Culinary Federation Educational Institute. Web browsers may visit the site at <http://old.www.iup.edu/cularts>.

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The Eberly College of Business

The Eberly College of Business

In the spring of 1994, the College of Business was renamed the Eberly College of Business. The new title of the college commemorates the generous commitment of the Eberly family through the Eberly Family Trust to the developmental needs of the college. Departments within the Eberly College of Business include Accounting, Finance and Legal Studies, Management, Management Information Systems and Decision Sciences, Marketing, and Office Systems and Business Education.

The Bachelor of Science degree is offered in Accounting, Finance, Management Information Systems, Management, Marketing, Office Systems Administration, and Human Resource Management. The Office Systems and Business Education Department offers the Bachelor of Science in Education degree with a Business Education major and Bachelor of Science in Education degree with a Marketing and Distributive Education major. There is also a two-year Associate of Arts degree in Business with a concentration in Computers and Office Information Systems offered at the Indiana and Punxsutawney campuses.

College Majors

Accounting
Business (Associate of Arts)
Business Education
Finance
Human Resource Management
International Business
Management Information Systems
Management
Marketing
Office Systems Administration

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The Eberly College of Business

Bachelor of Science Degree

For those pursuing the Bachelor of Science degree, IUP's training will provide a broad liberal background in the behavioral sciences; a keen perception of the socioeconomic world in which we live and work; a foundation of general professional education for personally fruitful and socially useful careers in the varied fields of business; and opportunity to obtain the specialized knowledge and skills essential to future occupational growth and advancement. There are seven Bachelor of Science degrees offered in business—Accounting, Finance, Human Resource Management, Management, Management Information Systems, Marketing, and Office Systems Administration. Each area provides for a variety of business and business-related courses which are designed to enrich the student's understanding of the modern business system.

A student may not pursue coursework in the Eberly College of Business with the expectation of graduating from the college unless he/she has been accepted as a degree candidate in the college.

Enrollment in all Eberly College of Business courses at the 300 and 400 level is restricted to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

Eberly College of Business students may, in consultation with their advisors, plan their program of study to obtain a minor in an area of business specialization other than their major or a related area outside of the Eberly College of Business.

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The Eberly College of Business

Bachelor of Science in Education Degree

The Eberly College of Business seeks to serve the needs of its students and the needs of business, industry, and education through its diverse programs. Known for fifty years for excellence in Business Education, IUP's program in Distributive Education prepares teacher-coordinators for secondary schools offering programs in marketing, distribution, and cooperative work experience. These two degree areas (Bachelor of Science in Education with a Business Education major and the Bachelor of Science in Education with a Marketing Education major) are designed to prepare teachers for comprehensive high schools, area vocational-technical schools, and community colleges.

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The Eberly College of Business

Associate of Arts Degree

Students who desire a two-year program that prepares them to enter the business world may elect to pursue the Associate of Arts degree program specializing in Computer and Office Information Systems.

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The Eberly College of Business

Student Advisement and Internship Office

- a. **Eberly College of Business Advisement Center (COBAC):** The center provides academic advisement to lower division and probationary students. It is staffed by a full-time faculty advisor for all Eberly College of Business freshman, sophomore, and probationary students. Peer advisors are available to answer questions on course selection, course scheduling, and selection and change of majors.
- b. **Eberly College of Business Internship Office:** IUP offers one of the largest business internship programs in Pennsylvania. Business students can choose from a wide range of organizations to gain real-world experience while earning academic credits through internships. Most students complete an internship near their home during the summer. Internships are available during the fall and spring semester as well. Internships may even lead to job offers after graduation.

School of International Management: With the increasing demand for cross-cultural knowledge and international competence, Eberly College of Business has committed itself to a comprehensive strategy of providing future business leaders with a global foundation so they may become the world-class managers of tomorrow. The School of International Management offers a rich program that will strengthen business students and provide regional businesses with personnel who have a global perspective and internationally competitive management skills. This global perspective is provided to our students through broad exposure to cross-cultural coursework, integration of international concepts in selected business courses, direct exposure to individuals from other cultures, and a period of residency in another country.

The Eberly College's **Business Advisory Council** is a select group of more than fifty business leaders. The council helps the college in its educational and service mission through counsel and feedback on matters such as program objectives, curriculum development, program development and promotion, and recruitment and retention of students and faculty.

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The Eberly College of Business

Service Units

The **Management Services Group** is a confederation of consulting units instituted in 1991 by the Eberly College of Business in support of ongoing and start-up businesses in the Indiana county region. An integral objective of the group is to provide educational opportunities through an ongoing schedule of seminars and workshops for local businesses.

The **Indiana County Small Business Incubator** was established in 1986 as a joint effort between IUP, the Indiana county commissioners, and several county and state agencies. The Ben Franklin Partnership has provided operational capital and other support services since the incubator's inception. The incubator provides small start-up business with consultation, services, and space.

The **Small Business Institute (SBI)** was established to assist existing business with various types of problem resolution. Through the SBI, undergraduate and graduate business students work under close supervision of faculty members to assist clients with accounting systems, market studies, computer system installation, business planning, and operations management.

The **Government Contract Assistance Program** helps area business identify and respond to federal and state requests for bids for products and services. The program is funded by the Department of Defense. Contract sales generated through this program add to the vitality of the local economy.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:44 AM on 7/24/97

The Eberly College of Business

Department of Accounting

Duane M. Ponko, Chairperson;
Anderson, Bradwick, Burner, Davis, Eiteman, Ghobashy, Hudack, Hyder, Joseph, Kline, Lindh, Plivelic,
Pressly, Robbins, Woan, Yerep;; and professor emeritus Cooper

The Accounting Department provides the training necessary for one to enter the fields of public accounting, accounting in business or industry, and governmental accounting.

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The Eberly College of Business

Bachelor of Science-Accounting

Liberal Studies:As outlined in Liberal Studies section
with the following specifications:

54-56

Mathematics: [MA121](#)

Social Science: [EC121](#), [PC101](#)

Liberal Studies elective: [MA214](#), [EC122](#), [BE101/CO101/IM101](#),
no courses with AG prefix

College: Business Administration Core

33

Required courses:

AD321	Business and Interpersonal Communications	3sh
AG201	Principles of Accounting I	3sh
AG202	Principles of Accounting II	3sh
BL235	Introduction to Business Law	3sh
FI310	Finance I	3sh
IM300	Information Systems: Theory and Practice	3sh
MG310	Principles of Management	3sh
MG330	Production and Management Operations	3sh
MG495	Business Policy	3sh
MK320	Principles of Marketing	3sh
QB215	Business Statistics	3sh

Major: Accounting (1)

27

Required courses:

AG301	Intermediate Accounting I	3sh
AG302	Intermediate Accounting II	3sh
AG311	Cost Accounting	3sh
AG401	Advanced Accounting	3sh
AG412	Advanced Cost Accounting	3sh
AG421	Federal Taxes	3sh
AG431	Auditing	3sh

Controlled electives:

Two courses from this list: 6sh

[AG422](#), [AG435](#), [AG441](#), [AG451](#), [AG461](#), [AG471](#), [BL336](#)

Other Requirements: 0

Free Electives: 8-10

Total Degree Requirements: 124

(1) Students must meet the grade prerequisite(s) listed in the course description section of the Undergraduate Catalog prior to advancing to the next course.

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The Eberly College of Business

Department of Finance and Legal Studies

Terry T. Ray, Chairperson;
Affaneh, Ames, Boldin, Duhala, McCaffrey, Roberts, Strock, Troxell, Welker

Finance Major

The Finance major, leading to the degree of Bachelor of Science, is designed to educate those students who are interested in the financial management of the firm.

The objective of the finance area is to prepare students to deal with financial problem solving in the areas of financial management and investment analysis. Graduates should be knowledgeable of the basic theory of finance so as to apply it to the rapidly changing field.

Legal Studies

Legal Studies offers a variety of law and law-related courses with a special emphasis on business applications. Legal Studies provides the student with a solid, legally oriented background necessary to a career in business or as preparation for pursuit of a law or law-related career.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:29 AM on 7/24/97

The Eberly College of Business

Bachelor of Science-Finance

Liberal Studies:As outlined in Liberal Studies section **54-56**

with the following specifications:

Mathematics: [MA121](#)

Social Science: [EC121](#), [PC101](#)

Liberal Studies elective: [MA214](#), [EC122](#), [BE101/CO101/IM101](#),

no courses with FI prefix

College: Business Administration Core **33**

Required courses:

AD321	Business and Interpersonal Communications	3sh
AG201	Principles of Accounting I	3sh
AG202	Principles of Accounting II	3sh
BL235	Introduction to Business Law	3sh
FI310	Finance I	3sh
IM300	Information Systems: Theory and Practice	3sh
MG310	Principles of Management	3sh
MG330	Production and Management Operations	3sh
MG495	Business Policy	3sh
MK320	Principles of Marketing	3sh
OB215	Business Statistics	3sh

Major: Finance **27**

Required courses:

EC325	Monetary Economics I	3sh
FI320	Finance II	3sh
FI322	Life Insurance	3sh
FI324	Principles of Investments	3sh
FI420	Investment Analysis	3sh
FI422	Seminar in Finance	3sh

Controlled electives:

Three courses from the following: 9sh

[AG421](#), [EC326](#), [EC334](#), [EC345](#), [EC356](#), [FI312](#),
[FI355](#), [FI385](#), [FI410](#), [FI424](#), [OB380](#)

Other Requirements: 0

Free Electives: 8-10

Total Degree Requirements: 124

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:31 AM on 7/24/97

The Eberly College of Business

Bachelor of Science-Business/Pre-Law (1)

Liberal Studies:As outlined in Liberal Studies section **54-56**
with the following specifications:

Mathematics: [MA121](#)

Social Science: [EC121](#), [PC101](#)

Liberal Studies electives: [MA214](#), [EC122](#), [BE101/CO101/IM101](#),
no courses with major prefix

College: Business Administration Core **33**

Required courses:

AD321	Business and Interpersonal Communications	3sh
AG201	Accounting Principles I	3sh
AG202	Accounting Principles II	3sh
BL235	Introduction to Business Law	3sh
FI310	Finance	3sh
IM300	Information Systems: Theory and Practice	3sh
MG310	Principles of Management	3sh
MG330	Production and Management Operations	3sh
MG495	Business Policy	3sh
MK320	Principles of Marketing	3sh
OB215	Business Statistics	3sh

Major: One Major in Business Administration Areas (1) **27**

Accounting Major

Finance Major

Human Resources Management Major

Management Major/Industrial Management Track

Management Major/General Management Track

Management Major/Entrepreneurship & Small Business Track

Management Information Systems Major

Marketing Major

Pre-Law Interdisciplinary Minor for Business 9-21

Seven courses, with at least one course from six areas

Criminology: [CR210](#), [CR260](#), [CR357](#)

Economics: [EC121](#), [EC122](#), [EC332](#)

English: [EN212](#), [EN220](#), [EN310](#)

History: [HI320](#), [HI321](#), [HI346](#)

Philosophy: [PH101](#), [PH222](#), [PH450](#)

Political Science: [PS358](#), [PS359](#), [PS361](#)

Free Electives: 0-1

(#) Total Degree Requirements: 124-125

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

(1) This program is the generic outline for the pre-law minor with any of the listed Eberly College of Business majors.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:34 AM on 7/24/97

The Eberly College of Business

Pre-Law Minor in Eberly College of Business

The pre-law minor is intended for the student who is a business major concentrating in one of the business areas and interested in law as a career. The minor consists of 21 semester hours selected by the student from a predetermined list of courses spread over six areas of Humanities and Social Sciences. The goals of the pre-law minor are academic accomplishment, guidance, and advisement. Interested business students should contact the pre-law advisor in the Finance and Legal Studies Department.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:35 AM on 7/24/97

The Eberly College of Business

Department of Management

John N. Orife, Chairperson;

Ali, Anderson, Ashamalla, Falcone, Gibbs, Nagendra, Osborne, Ryan, Soni, Wisnieski; and professors emeriti McGovern, Stevenson

Graduates holding the Bachelor of Science degree in Management or Human Resource Management may find employment opportunities in both the public and private sectors. In the 1990s opportunities are expected to be especially plentiful in the services sector (e.g., retailing, health care, food services, finance, and transportation).

The Bachelor of Science in Management program offers three concentrations: Industrial Management, General Management, and Entrepreneurship and Small Business Management. Students in the Industrial Management concentration are well grounded in both management theory and application, but their focus is more upon production/operations/industrial management. The concentration in General Management is distinguished by its low level of structure or specificity. The greater flexibility of this major can be useful to the student who wishes to design a customized management specialization (e.g., fine arts management). Students taking the Entrepreneurship and Small Business Management concentration will focus on creation and operation of a small business. This concentration might also be desirable for graduates who will be working in small businesses where the manager often must wear several hats.

The Bachelor of Science in Human Resource Management prepares individuals in both the theoretical and applied aspects of managing the human resources function in organizations as a generalist or specialist.

The Bachelor of Science in International Business offers students an opportunity to acquire a thorough understanding of managing global operations in the contemporary business environment. In addition, students develop skills in a traditional functional area. The combination of these two objectives enable students to successfully perform in today's competitive global economy.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:36 AM on 7/24/97

The Eberly College of Business

Bachelor of Science-Management

Liberal Studies:As outlined in Liberal Studies section **54-56**

with the following specifications:

Mathematics: [MA121](#)

Social Science: [EC121](#), [PC101](#)

Liberal Studies elective: [MA214](#), [EC122](#), [BE101/CO101/IM101](#),

no courses with MG prefix

College: Business Administration Core **33**

Required courses:

AD321	Business and Interpersonal Communications	3sh
AG201	Principles of Accounting I	3sh
AG202	Principles of Accounting II	3sh
BL235	Introduction to Business Law	3sh
FI310	Finance I	3sh
IM300	Information Systems: Theory and Practice	3sh
MG310	Principles of Management	3sh
MG330	Production and Management Operations	3sh
MG495	Business Policy	3sh
MK320	Principles of Marketing	3sh
OB215	Business Statistics	3sh

Major: Concentration **27**

Industrial Management Concentration

Required courses:

AG300	Managerial Accounting	3sh (1)
MG300	Human Resources Management	3sh
MG428	Seminar in Management	3sh

Controlled Electives:

One course from list: CO110 or IM251	3sh
Two courses from two areas on list: MG402 or LR480 , MG401 or MG400 , AG311	6sh
Three courses from list or additional electives from above: BL336 , EC371 , EC372 , EN310 or JN326 , FI320 , MA317 , MG481 , MG490 , MG493 (3sh max), MK420 , OB380 , SA101	9sh

General Management Concentration**Required courses:**

AG300	Managerial Accounting	3sh (1)
MG300	Human Resource Management	3sh
MG428	Seminar in Management	3sh

Controlled electives:

Two Advanced Business electives: 300/400 level	6sh (2)
Two Advanced Economics electives: 300/400 level	6sh
Two other advanced electives: 300/400 level	6sh

Entrepreneurship and Small Business Management Concentration**Required courses:**

AG300	Managerial Accounting	3sh
MG275	Introduction to Entrepreneurship	3sh
MG325	Small Business Management	3sh
MG403	Small Business Planning	3sh
MG492	Internship	6sh

Major Area Restricted Electives 9sh

Other Requirements: 0

Free Electives: 8-10

Total Degree Requirements: 124

- (1) [AG301](#): Intermediate Accounting I may be substituted to use as prerequisite for [AG311](#): Cost Accounting.
- (2) Only one MG and/or one AG course may be included in this category.

(3) Note prerequisites for controlled electives in planning sequence.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:38 AM on 7/24/97

The Eberly College of Business

Bachelor of Science-Human Resources Management

Liberal Studies: As outlined in Liberal Studies section **54-56**

with the following specifications:

Mathematics: [MA121](#)

Social Science: [EC121](#), [PC101](#)

Liberal Studies elective: [MA214](#), [EC122](#), [BE101/CO101/IM101](#),

no courses with MG prefix

College: Business Administration Core **33**

Required courses:

AD321	Business and Interpersonal Communications	3sh
AG201	Principles of Accounting I	3sh
AG202	Principles of Accounting II	3sh
BL235	Introduction to Business Law	3sh
FI310	Finance I	3sh
IM300	Information Systems: Theory and Practice	3sh
MG310	Principles of Management	3sh
MG330	Production and Management Operations	3sh
MG495	Business Policy	3sh
MK320	Principles of Marketing	3sh
OB215	Business Statistics	3sh

Major: Human Resource Management **27**

Required courses:

AG300	Managerial Accounting	3sh (1)
MG300	Human Resource Management	3sh
MG400	Wage and Salary Administration	3sh
MG428	Seminar in Management	3sh

Controlled electives:

One course from list: [EC330](#) or [PC390](#) 3sh
One course from list: [MG401](#) or [MG402](#) 3sh
Three courses from list: 9sh (2)
[EC371](#), [EC372](#), [EC373](#), [EN310](#), [EN312](#), [JN326](#), [LR426](#),
[LR480](#), [MG311](#), [MG493](#) (3sh max), [EC330](#) or [PC371](#),
[PC390](#) (if not above), [SO340](#)

Other Requirements: 0

Free Electives: 8-10

Total Degree Requirements: 124

- (1) [AG301](#): Intermediate Accounting I may be substituted to use as prerequisite for [AG311](#): Cost Accounting.
(2) Note prerequisites for controlled electives in planning sequence.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:41 AM on 7/24/97

The Eberly College of Business

Bachelor of Science-International Business

Liberal Studies: As outlined in Liberal Studies section **54-56**

with the following specifications:

Mathematics: [MA121](#)

Social Science: [EC121](#), [PC101](#)

Liberal Studies elective: [MA214](#), [EC122](#), [BE101/CO101/IM101](#),

no courses with MG prefix

College: Business Administration Core **33**

Required courses:

AD321	Business and Interpersonal Communications	3sh
AG201	Principles of Accounting I	3sh
AG202	Principles of Accounting II	3sh
BL235	Introduction to Business Law	3sh
FI310	Finance I	3sh
IM300	Information Systems: Theory and Practice	3sh
MG310	Principles of Management	3sh
MG330	Production and Management Operations	3sh
MG495	Business Policy	3sh
MK320	Principles of Marketing	3sh
OB215	Business Statistics	3sh

Major: International Business **12**

Required courses:

EC345	International Trade	3sh
MG/MK350	International Business	3sh
MG454	International Competiveness	3sh
MG459	Seminar in International Management	3sh

Concentration area courses: (select one concentration)

Finance concentration: **12**

FI320	Finance II	3sh
FI324	Principles of Investment	3sh
FI410	Financial Institutions and Markets	3sh
FI424	International Financial Management	3sh

Human Resources Management concentration:

MG300	Human Resources Management	3sh
MG400	Compensation Management	3sh
MG452	Comparative Management	3sh
MG402	Seminar in Human Resource Management	3sh

Marketing concentration:

MK321	Consumer Behavior	3sh
MK420	Marketing Management	3sh
MK421	Marketing Research	3sh
MK430	International Marketing	3sh

Free Electives: 4-6

Other Requirements: 0

Total Degree Requirements: 124

1. Candidates must demonstrate a conversational proficiency in a foreign language. This requirement may be met by: (a) successful completion of nine intermediate-level semester hours in a specific language, or (b) successful completion of an exemption or credit examination in lieu of the above. A foreign student, registered as such at IUP, whose acquired native language is other than English and who demonstrates an acceptable proficiency in English, can meet the foreign language requirement by successful completion of an exemption examination in the acquired native language.
2. Candidates must document one semester of foreign residence (minimum of three months). Normally, the foreign residency requirement will be met in conjunction with a work experience, internship, or student exchange. A substitute cross-cultural experience may be permitted with the recommendation of the academic advisor. The foreign language requirement is a prerequisite to the foreign residency requirement.

The Eberly College of Business

Department of Management Information Systems and Decision Sciences

Kenneth L. Schildt, Chairperson;
Albohali, Burky, Chen, Halapin, McFerron, Nahouraii, Pierce, Solak; and professor emeritus Spencer

The Management Information Systems major prepares students for careers in the business computer and information systems profession. Computer programming languages, software engineering, systems analysis, design concepts, computer architecture, data base management systems, microcomputer applications, and computer networks are integrated with other business disciplines to prepare students to develop and maintain business information systems. The major also incorporates an emphasis on managerial and end-user concerns related to modern information systems.

Decision Sciences provides students with the knowledge of statistical and other quantitative techniques that will help decision making in business. The techniques include mathematical programming, forecasting, inventory control, simulation, queuing theory, stochastic process, and network models.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:59 PM on 7/24/97

The Eberly College of Business

Bachelor of Science-Management Information Systems

Liberal Studies:As outlined in Liberal Studies section **54-56**

with the following specifications:

Mathematics: [MA121](#)

Social Science: [EC121](#), [PC101](#)

Liberal Studies electives: [MA214](#), [EC122](#), [BE101/CO101](#)

no courses with IM prefix

College: Business Administration Core **33**

Required courses:

AD321	Business and Interpersonal Communications	3sh
AG201	Principles of Accounting I	3sh
AG202	Principles of Accounting II	3sh
BL235	Introduction to Business Law	3sh
FI310	Finance I	3sh
IM300	Information Systems: Theory and Practice	3sh
MG310	Principles of Management	3sh
MG330	Production and Management Operations	3sh
MG495	Business Policy	3sh
MK320	Principles of Marketing	3sh
OB215	Business Statistics	3sh

Major: Management Information Systems **27**

Required courses:

CO220	Applied Computer Programming	3sh
IM350	Business Systems Technology	3sh
IM370	Advanced COBOL Application Programming	3sh
IM450	Data Base Theory and Application	3sh
IM451	Systems Analysis	3sh
IM470	Systems Design	3sh

Controlled electives:

At least one course from list: [CO110](#), [CO250](#),
[CO300](#), [CO310](#), [CO345](#) 3sh

Two courses from list: [IM382](#), [IM480](#),
[IM481](#), [OB380](#) or above CO courses 6sh(1)

Other Requirements: 0

Free Electives: 8-10

Total Degree Requirements: 124

(1) One course from [AG300](#), [AG301](#), or [AG311](#) may be substituted.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified on Fri Oct 4 13:39:00 1996

The Eberly College of Business

Department of Marketing

Krish S. Krishnan, Chairperson;
Batra, Bebko, Garg, Sciulli, Sharma, Taiani, Weiers

The Bachelor of Science in Marketing program is designed to prepare its majors for a wide range of careers in private and public sector marketing including sales, management, retailing, brand management, customer affairs, marketing research, public relations, and international marketing. The program focuses on integrating technical knowledge in all areas of marketing with analytical and communication skills to prepare the students for the challenges of the global competition in the twenty-first century.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 4:02 PM on 7/24/97

The Eberly College of Business

Bachelor of Science-Marketing

Liberal Studies:As outlined in Liberal Studies section **54-56**

with the following specifications:

Mathematics: [MA121](#)

Social Science: [EC121](#), [PC101](#)

Liberal Studies elective: [MA214](#), [EC122](#), [BE101/CO101/IM101](#),

no courses with MK prefix

College: Business Administration Core **33**

Required courses:

AD321	Business and Interpersonal Communications	3sh
AG201	Principles of Accounting I	3sh
AG202	Principles of Accounting II	3sh
BL235	Introduction to Business Law	3sh
FI310	Finance I	3sh
IM300	Information Systems: Theory and Practice	3sh
MG310	Principles of Management	3sh
MG330	Production and Management Operations	3sh
MG495	Business Policy	3sh
MK320	Principles of Marketing	3sh
OB215	Business Statistics	3sh

Major: Marketing **27**

Required courses:

AG300	Managerial Accounting	3sh
MK321	Consumer Behavior	3sh
MK420	Marketing Management	3sh
MK421	Marketing Research	3sh
MK422	Seminar in Marketing	3sh
EC---	Advanced Economics Elective: 300/400-level	3sh

Controlled electives:

Three courses from list: [DE332](#), [DE333](#), [EC331](#),
[EC345](#), [MK430](#), [MK431](#), [MK432](#), [MK433](#), [MK493](#) (3sh max) 9sh

Other Requirements: 0

Free Electives: 8-10

Total Degree Requirements: 124

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 4:04 PM on 7/24/97

The Eberly College of Business

Department of Office Systems and Business Education

Wayne A. Moore, Chairperson;

**Bianco, Brandenburg, Golden, Hemby, McPherson, Rowell, Smith, Szul, Woodland; and professors emeriti
Beaumont, Patterson Cordera, Mahan, Moreau, Morris, Polesky, Sheeder, Thomas, Woomer**

This department offers the following degrees:

Bachelor of Science in Education with a [Business Education major](#), Bachelor of Science with a major in [Office Systems](#), and a two-year Associate of Arts degree in Business with a Computer and Office Information Systems track.

Office Systems Major (Bachelor of Science)

The Office Systems program is an intensive study of office systems emphasizing the decision-making aspect of office functions and the systems approach. The program includes in-depth experiences required for an understanding of the total office system and its relationship to the total business and economic system.

The Office Systems program prepares students for careers such as office managers or supervisors, records managers, telecommunications consultants/managers, PC analysts, microcomputer user coordinators, and office systems analysts.

Business Education Major (Bachelor of Science in Education)

The IUP Business Education program is accredited by the National Council for Accreditation of Teacher Education (NCATE). The program leads to the degree of Bachelor of Science in Education and to certification in Pennsylvania as a business education teacher.

Our program in business education is dedicated to preparing teachers who will be qualified and certificated to instruct students to live and work in a business environment.

The major is intended for those interested in teaching in public junior and senior high schools, vocational-technical schools, private business schools, or industry. Students have a choice of the following certification areas: accounting, data processing, marketing, office technologies, secretarial, and marketing/distributive education. They must select two or more areas of certification; one of the two areas must be office technologies. Students seeking certification in marketing/distributive education must select the areas marketing and marketing/distributive education. The courses required in each area are as follows:

Secretarial: [BE260*](#), [BE261*](#), [BE262*](#), [BE312](#) (Secretarial)

Accounting: [AG300](#), [AG301](#), [AG421](#), [BE312](#) (Accounting)

Office Technologies: [BE132](#), [BE264](#), [OS301](#), [OS400](#), [BE312](#) (Office Tech)

Data Processing: [OS400](#), [IM251](#), [IM255](#), [BE312](#) (Data Processing)

Marketing: [DE331](#), [DE332](#), [DE333](#), [BE312](#) (Marketing)

Marketing/Distributive Education: [MK421](#), [MK433](#), MK elective, [DE413**](#)

*Students should transfer these courses from another Middle States-accredited institution or obtain credit by exam.

**Offered on an individualized basis.

A student must apply to the dean of the College of Education to receive an initial certificate to teach in Pennsylvania's public schools. Certification to be a business education teacher is approved by the dean of the College of Education when a student has met all the requirements in professional education, Liberal Studies, and business education major courses. Students must attain a 2.5 overall average in order to student teach. See details of the four-step process in the section "Admission to Teacher Education and Certification" in the Academic Policies section of this catalog. The candidate for certification must also complete successfully the core battery and specialization sections of the National Teachers' Examination.

All students who take a business education major also complete a track in the College of Education and must meet the standards set by that college (*see Department of Office Systems and Business Education Student Handbook, page 8*).

Practical Business Experience

Before graduation, each business education student must document completion of 500 hours of secretarial practice, accounting practice, data processing, clerical practice, or office-related experience. This experience should be in the field or fields in which the student is contemplating certification and can be acquired during summer vacations and in offices on the campus during the regular school term. Previous documented experience may also be counted.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 4:08 PM on 7/24/97

The Eberly College of Business

Bachelor of Science-Office Systems

Liberal Studies: As outlined in Liberal Studies section **53-56**

with the following specifications:

Mathematics: [MA121](#)

Social Science: [EC121](#), [PC101](#)

Liberal Studies electives: [MA214](#), [EC122](#), [BE101/CO101/IM101](#)

College: **33**

Required courses: Business Administration Core

AD321	Business and Interpersonal Communications	3sh
AG201	Accounting Principles I	3sh
AG202	Accounting Principles II	3sh
BL235	Introduction to Business Law	3sh
FI310	Finance	3sh
IM300	Information Systems: Theory and Practice	3sh
MG310	Principles of Management	3sh
MG330	Production and Management Operations	3sh
MG495	Business Policy	3sh
MK320	Principles of Marketing	3sh
OB215	Business Statistics	3sh

Major: **27**

Required courses:

IM251	Business Systems Analysis and Design	3sh
OS301	Advanced Microcomputer Applications	3sh
OS313	Office Systems Technology	3sh
OS315	Records Administration	3sh
OS400	Telecommunications	3sh
OS411	Microcomputer Support for Office Systems	3sh
OS480	Seminar in Office Systems	3sh
-----	Business Electives	6sh

Other Requirements: (1)	0-1
Free Electives:	7-11
Total Degree Requirements:	124

(1) Student must pass [BE134](#) with a "C" or better or pass an exemption exam.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 4:10 PM on 7/24/97

The Eberly College of Business

Associate of Arts-Business

Offering specialization in computer and office information systems (COIS), the Associate of Arts Degree in Business is designed to be a two-year curriculum with these objectives:

1. To provide business occupational education with the opportunity for specialization in COIS.
2. To enable the student to enter COIS positions in business and government.
3. To enable the student to upgrade his/her skills and knowledge to qualify for higher positions in business and government.
4. To provide the foundation to continue education in a four-year degree program. This program is offered at the Indiana campus only. The university has suspended admission to the COIS program at the Armstrong Campus.

Tech Prep

The Office Systems and Business Education Department has signed articulation agreements with high schools throughout Western Pennsylvania. Graduates of these approved programs have the opportunity schedule advanced courses and develop higher level skills to enhance employment options. For additional information, contact the department secretary at 412-357-3003.

Liberal Studies: as follows: **13**

English: [EN101](#) 4sh

Humanities or Fine Arts: one course from lists 3sh

Social Science: [EC101](#) or [EC121](#), [PC101](#) 6sh

Major: Business (Associate) Core **32**

Required courses:

[AD101](#) Introduction to Business 3sh

[AD221](#) Business Technical Writing 3sh

[AG201](#) Accounting Principles I 3sh

[AG202](#) Accounting Principles II 3sh

[BE111](#) Foundations of Business Math 3sh

[BE131](#) Keyboarding and Document Formatting 2sh

[BE250](#) Electronic Office Procedures 3sh

[BL235](#) Introduction to Business Law 3sh

[FI220](#) Essentials of Finance 3sh

[IM241](#) Intro to Management Information Systems 3sh

[IM245](#) Introduction to Microcomputers 3sh

Other Requirements:

Computer & Office Specialization: 12

BE273	Word Processing Applications	3sh
IM251	Business Systems Analysis and Design	3sh
IM255	Business Applications in COBOL	3sh
IM260	Business Computer Application Project	3sh

Free Electives: 3

Other Requirements: 0

Total Degree Requirements: 60

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 4:14 PM on 7/24/97

The Eberly College of Business

Minor--Office Systems

(for Business Majors in the Eberly College of Business only.)

Required Courses:		15
OS301	Advanced Microcomputer Applications	3sh
OS313	Office Systems Technology	3sh
OS315	Records Administration	3sh
OS400	Telecommunications	3sh
OS411	Microcomputer Support	3sh

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 4:19 PM on 7/24/97

The Eberly College of Business

Bachelor of Science in Education-Business Education (*)

Liberal Studies:As outlined in Liberal Studies section 53-55

with the following specifications:

Mathematics: [BE111](#)

Social Science: [EC121](#), [PC101](#)

Liberal Studies electives: [EC122](#), [MA214](#), [BE101/CO101/IM101](#),

College: 32-36

Professional Education sequence:

BE311	Methods & Evaluation in Business Education I	3sh
BE312	Methods & Evaluation in Business Education II	2-6sh
CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
EP202	Educational Psychology	3sh
FE202	American Education in Theory and Practice	3sh
EX300	Education of the Exceptional in the Regular Classroom (or pass examination)	3sh (1)

Major: 44-47

Required courses: Business Education Core

AD101	Introduction to Business	3sh
AD321	Business and Interpersonal Communications	3sh
AG201	Accounting Principles I	3sh
AG202	Accounting Principles II	3sh
BL235	Introduction to Business Law	3sh
BL337	Consumer Law	3sh
IM300	Information Systems: Theory and Practice	3sh
MK320	Principles of Marketing	3sh

Controlled electives:

Areas of Certification 20-23sh

Other Requirements: 0

Free Electives: 0

(#) Total Degree Requirements: 129-138

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#)(2sh).

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 4:18 PM on 7/24/97

The Eberly College of Business

Business Minors for Eberly College of Business Students

Minors in Accounting, Finance, Human Resources Management, Management Information Systems, Marketing, and Office Systems are offered only for students who are majoring in one of the other majors in the Eberly College of Business and assume the common thirty-six-credit Business core.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 4:19 PM on 7/24/97

The Eberly College of Business

Minor in Business Administration for Non-Business Majors

The Eberly College of Business offers, as a joint effort of its departments, a twenty-one credit hour minor for non-business majors. The program is designed to give non-business majors a general background in business with twelve credits of prescribed Liberal Studies courses and twenty-one credits of required business courses.

Prescribed Liberal Studies:

Social Science: [EC121](#)

Mathematics: [MA214](#) or [MA217](#)

Liberal Studies Electives: [BE101](#)/[CO101](#)/[IM101](#), [EC122](#)

Required Business Courses:

15

AG201	Accounting Principles I	3sh
AG202	Accounting Principles II	3sh
FI310	Finance I	3sh
MG310	Principles of Management	3sh
MK320	Principles of Marketing	3sh

Two of the following with advisement:

6

AD321	Business & Interpersonal Communications	3sh
BL235	Introduction to Business Law	3sh
IM300	Information Systems: Theory and Practice	3sh

The College of Education

Since its founding in 1875 as the Indiana Normal School, Indiana University of Pennsylvania has been widely recognized for its excellent programs in teacher education. Although the scope of the university has been greatly expanded, the College of Education continues the tradition of preparing outstanding teachers to serve the students of the commonwealth and the nation.

The College of Education comprises nine multidimensional departments which offer twenty-five programs leading to the bachelor, master, and doctoral degrees. Undergraduate programs prepare students in teacher education (elementary, early childhood, secondary, vocational, and special education), communications media, and rehabilitation. In addition, a diverse set of graduate programs, detailed in the Graduate School Catalog, meet the needs of practitioners in basic education, higher education, counseling, and communications media.

The departments of the college are Professional Studies in Education, Foundations of Education, Communications Media, Special Education and Clinical Services, Educational and School Psychology, Counselor Education, Student Affairs in Higher Education, Adult and Community Education, and the University School. Each department makes a unique contribution to the total preparation of students within the college. Some programs provide service courses to enhance the professional preparation of students; others, such as professional programs in teacher education, public school administration, and personnel services lead to certification for public school teaching or supervision in the Commonwealth of Pennsylvania.

The College of Education is well known for its opportunities to practice "hands-on" learning. Over five hundred students enjoy early field experiences each semester. In addition, the College of Education places about six hundred student teachers each year in public schools which provide a full semester of supervised teaching experience. Students are encouraged to take advantage of a full range of activities offered in urban, rural, and multicultural settings.

Practical experiences are important for students majoring in communications media and rehabilitation as well. Students in these programs are prepared in one of the largest internship programs in Pennsylvania. They select supervised work experiences with agencies throughout the commonwealth and neighboring states; many students are so successful in their internship placements, they are hired immediately upon graduation.

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The College of Education

Summary of Certification Programs Offered

- Bachelor of Science in Education (B.S.Ed. with certification)
 - Elementary Education
 - Early Childhood Education
 - Secondary Education

(For details see the [College of Humanities and Social Sciences](#))

- English
- Social Science
- French
- Spanish
- German

(For details see the [College of Natural Sciences and Mathematics](#))

- Mathematics
- Biology
- Chemistry
- Physics
- Earth and Space Science
- General Science

(For details see the [College of Health and Human Services](#))

- Home Economics
- Health and Physical Education

(For details see the [College of Fine Arts](#))

- Art (K-12)
- Music (K-12)

(For details see the [Eberly College of Business](#))

- Business

- **Special Education**
 - Speech-Language Pathology and Audiology
 - Education of Exceptional Persons
 - Education of Persons with Hearing Loss
- **Vocational/Technical Education**
- **Bachelor of Science Degree (B.S.)**

- Rehabilitation
- Communications Media
- **Graduate Programs** (See the [Graduate School Catalog.](#))
- **Masters Degree (M.Ed. unless otherwise noted)**
 - Education of Exceptional Persons
 - Speech-Language Pathology (M.S.)
 - Adult and Community Education (M.A.)
 - Counselor Education
 - Educational Psychology
 - Reading Specialist
 - Student Affairs in Higher Education (M.A.)
- **Doctoral Degree (D.Ed.)**
 - Elementary Education
 - School Psychology
 - Education Leadership (with Superintendent's Letter of Eligibility)
- **Certification Only**
 - Reading Specialist
 - School Psychologist
 - Elementary/Secondary Principal
 - Superintendent's Letter of Eligibility

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The College of Education

Teacher Certification Programs

Programs in teacher education provide students with opportunities to gain competence in both generic and program-specific competencies. Students who prepare to become teachers should be able to:

1. Demonstrate depth and breadth of knowledge in subject matter content and pedagogical skills.
2. Demonstrate an understanding of and the ability to apply the theoretical and practical aspects of human growth and development as they relate to teaching and learning.
3. Demonstrate skills and abilities to work collaboratively with others.
4. Demonstrate professional commitment to students, colleagues, and the community.
5. Demonstrate the belief that professional development is an ongoing process.
6. Demonstrate an understanding of the historical and philosophical foundations of American education.

Teacher education programs at IUP focus on student learners who are taught and guided by a faculty committed to the preparation of competent teachers. Students preparing to become teaching professionals must exhibit humanism and adaptability, practice and communicate critical thinking skills, and become excellent role models. These qualities are developed through coursework and activities that emphasize the liberal studies in concert with appropriate professional pedagogy. Collaboration is modeled as university faculty, public school personnel, and students work together to accomplish goals of the IUP teacher education programs.

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The College of Education

Degree Requirements

All degree candidates in the College of Education (except for three special programs) must satisfactorily complete a minimum of 124 semester hours in three categories: Liberal Studies, a specialized major field, and professional education. Program revisions are ongoing in an attempt to provide teachers in training with the most current information related to teaching and learning. Students should always consult with advisors to determine what changes, if any, have been made in their chosen program of study.

Liberal Studies-52-55 semester hours, described in this catalog under Requirements for Graduation.

Specialized major field-requirements listed under department offerings.

Professional Education-30 semester hours, as follows:

EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh
FE202	American Education in Theory and Practice	3sh
CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED442	School Law	1sh
Methods Course - (Teaching of _____)		3sh
Student Teaching - (One semester)		12sh

The College of Education

Admission to Teacher Education Programs

University policy outlines a 4-step process for all students seeking teacher certification; the process applies to students from the time they are admitted to the teacher certification program until they graduate with recommendation for certification. The 4-Step Process policy consists of four separate phases: Teacher Certification, Junior Standing, Student Teaching, and Recommendation for Certification. The policy is fully explained in the Academic Policies section of the catalog under the heading "Admission to Teacher Education and Certification." It is imperative that students thoroughly understand the policies, procedures, and consequences of the 4-Step process as it applies to their program of study.

Admission to teacher education programs is competitive and requires students to meet the requirements outlined in Step 1 of the 4-Step Process. To qualify for admission to teacher education, all students must complete a minimum of 29 semester hours with a cumulative QPA of 2.5 or higher. In addition, students are required to submit the following items to the Dean's Office in the College of Education: (1) an application for Teacher Certification signed by the student's advisor; (2) verification of a negative TB test; (3) clearance on an initial speech and hearing test; and (4) criminal and child abuse record clearances, Acts 33/34/151.

Students who do not achieve and maintain a cumulative QPA of 2.5 or higher are unable to take coursework in the teacher education core. Some programs apply the same standard to courses in the professional core as well. Further details about core education requirements are discussed in the catalog section under Academic Policies: Admission to Teacher Education. Details of specific program requirements can be found in the section of the catalog which describes each department's programs of study. For example, a description of the Chemistry Education program may be found under the College of Natural Sciences and Mathematics, Chemistry Department, Secondary Chemistry Education; a description of the Music Education program is located under the College of Fine Arts, Music Department, Music Education; and the Elementary Education program is described under the College of Education, Professional Studies in Education Department, Elementary Education.

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The College of Education

Student Teaching

Student teaching is designed to be the culminating learning experience for prospective teachers. Student teachers practice teaching and managing a classroom under the supervision of a full-time master teacher in an off-campus center. A university supervisor is assigned to work with individual student teachers and cooperating teachers. To gain admission to student teaching, applicants must have achieved a minimum cumulative quality-point average of 2.5. In addition, students must complete all requirements of the 4-Step Process and should complete all other components of the Liberal Studies and professional core before student teaching. Some programs have standards above the minimum 2.5 cumulative QPA and/or course grade expectations above the minimum grade of C. Each student should counsel with his/her advisor for information about specific program requirements related to qualification for student teaching.

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The College of Education

Certification Requirements

College of Education requirements for recommendation for certification as a teacher, as well as the intermediate steps leading to commonwealth certification, are outlined in the 4-Step Process. The catalog section on Academic Policies under the title "Admission to Teacher Education and Certification" gives more detail about the requirements for certification. The requirements include:

- a minimum grade of C in all professional education courses and a cumulative QPA of 2.5
- review and recommendation by the major academic advisor indicating completion of all university and departmental teacher education requirements
- completion of student teaching with a minimum grade of C
- successful completion of the NTE Core Battery and NTE Specialty Area Tests
- competency in working with students with special needs (Special Education)

Applications for certification cannot be processed until the student completes the Bachelor of Science in Education degree or its equivalent.

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The College of Education

Dual Certification

The departments of Professional Studies in Education and Special Education and Clinical Services have developed guidelines for students wishing to complete academic requirements for a second certification. Students majoring in Elementary Education or Early Childhood Education may do this in either Education of Persons with Hearing Loss or Education of Exceptional Persons. Majors in Education of Persons with Hearing Loss or Education of Exceptional Persons may do this in either Early Childhood Education or Elementary Education. Forms for applying for dual certification are available in the offices of the two departments. Applications must be approved by the student's advisor and by the department chairperson or assistant chairperson of both departments. Students are advised that the completion of requirements will take approximately two extra semesters, and they may wish to explore the possibility of completing the second certification at a graduate level.

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The College of Education

Commonwealth Requirements for Teacher Certification

(Excludes Vocational Instructional Certification. See section called "Center for Vocational Personnel Preparation.")

Certification standards for commonwealth public school teachers are established by the Pennsylvania Department of Education and the Pennsylvania Board of Education. The academic advisor of the student's major department must verify for the dean of the College of Education that all academic requirements are met. The student's name is then placed on the graduation list.

Applicants for certification must sign an attestation of United States citizenship. Applicants who are not citizens must have an immigrant visa which permits them to seek employment within the United States, and they must have declared the intent to become citizens of the United States. Applicants must also submit a physical examination report and certify they are not in the habit of using narcotic drugs in any form, do not use excessive amounts of intoxicating beverages, are not currently under indictment by legal authorities, and have not been convicted of a criminal offense. Applicants who are unable to meet one or more of these requirements must submit a full explanation with the application. In addition, they must attest to the fact that all information supplied in the application is accurate.

The Pennsylvania Department of Education issues an Instructional I certificate to beginning teachers upon graduation from and recommendation by the College of Education. All candidates for the Instructional I certificate must successfully pass the National Teacher Exam general knowledge battery and selected specialty areas tests. Since IUP is a designated test site, registration for the NTE may be completed through University Testing Services in the Career Services office. After completion of 24 additional semester hours of collegiate and/or in-service coursework and with successful teaching experience, students are eligible to receive an Instructional II certificate, which is a permanent certification to teach in the Commonwealth of Pennsylvania.

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The College of Education

The University Clinics

Two clinics under the supervision of the College of Education offer diagnostic testing, remedial services, and instruction. The Speech and Hearing Clinic is organized and managed by the Department of Special Education and Clinical Services. The Child Study Center is housed in the Department of Educational and School Psychology.

The Speech and Hearing Clinic is staffed by Special Education faculty and supervised graduate students working toward advanced degrees in Speech-Language Pathology. Using state-of-the-art equipment, clinic personnel provide diagnosis of speech problems and hearing tests and evaluations, as well as a regular program of therapy for clients. As part of this program, clinic staff members provide testing and necessary therapeutic services to all teacher education candidates, who must meet strict speech and hearing clearances. Regularly enrolled students at the university, including all teacher certification candidates, are eligible to receive these services without charge.

The Child Study Center provides opportunities for Educational Psychology graduate students in the post-master's certification and doctoral programs to acquire professional skills under the supervision of certified faculty supervisors. Clinic personnel provide psychological assessment for children and adolescents with learning and/or behavior problems. They also provide consultation for parents and public school personnel involved with these children.

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The College of Education

The University School

Marilyn S. Howe, Director;
Beisel, Ellermeyer, Ford Grove, Hechtman, Mambo, Marlin, Stephenson, Yost; and
professors emeritae Davis, Fleming, Lingenfelter, Martin, Walthour

The University School is located in Davis Hall on the IUP campus, where it is housed with the departments of Professional Studies in Education and Special Education and Clinical Services. The University School provides a program of instruction for students in kindergarten through sixth grade. In addition, the school offers a rich variety of experimental and research activities for IUP faculty and students. Faculty members from disciplines as varied as music, physical education, Spanish, elementary education, and special education have ongoing programs which are carried out at the University School. Each year, hundreds of teacher education students participate in activities such as observations, lesson presentations, and student teaching. Graduate students utilize the University School to conduct research on teaching and learning. Research and experimental activities are scheduled with the director of the University School.

The University School is a member of the National Association of Laboratory Schools. Faculty at the University School have received many grants and teaching awards in recognition of their contributions to the education profession.

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The College of Education

Vocational-Technical Professional Studies

Sandra J. Durbin, Chairperson;

Boyd, Brady, Debow, Dolecki, Jakubowski, Keith, Mielke, Spewock, Sylves, Whisner

The Vocational-Technical Professional Studies program offers undergraduate and graduate curricula that prepare preservice teachers, in-service teachers, supervisors, and administrators in vocational-technical education. Students enrolling in one of the vocational education programs may specialize in an area related to interest and/or previous work experience. Programs may lead to either a Bachelor of Science in Education degree with certification or to professional certification only. Program graduates have a broad range of employment opportunities as teachers/trainers in secondary schools, vocational-technical schools, postsecondary schools, and private industry.

Certification to teach vocational-technical education in the commonwealth's secondary schools is issued to individuals who meet statutory requirements, demonstrate occupational/technical proficiency on a nationally standardized occupational competency examination, and complete 60 credit hours of the Pennsylvania Department of Education's approved university program. In the IUP program, a plan of studies will be tailored to each student's unique background (i.e., electrical, electronics, data processing, drafting, welding, dental, etc.) and professional needs.

Certification to serve as a cooperative education teacher-coordinator in the commonwealth's secondary schools can be earned by completing a program of studies tailored to each student's individual background and professional needs. The program prepares individuals for managing industrial cooperative training and school-to-work transitional experiences. For persons holding a valid Pennsylvania Instructional Certificate, the program of studies will be individualized based upon educational credits earned.

Each program offered by the Center for Vocational Personnel Preparation requires completion of the following semester hours:

The Bachelor of Science in Education	124sh
The Cooperative Education Teacher/Coordinator certificate	75sh
The Vocational Technical Education Certificate	60-62sh

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The College of Education

Bachelor of Science in Education-Vocational-Technical Education

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Social Science: [PC101](#)

Liberal Studies electives: no courses with VO prefix

College: 6

Professional Educational sequence:

[EP202](#) Educational Psychology 3sh

[FE202](#) American Education in Theory and Practice 3sh

Major: 30

Required courses:

[VO100](#) Preparation of the Vocational Professional I 15sh

[VO400](#) Preparation of the Vocational Professional II 15sh

Other Requirements: 27

Vocational Technical:

[EN310](#) Public Speaking 3sh

[VO401](#) Special Topics in Vocational Technical Prep. 3-12sh

[VO402](#) Special Topics in Vocational Pedagogical Prep. 3-15sh

[VO450](#) Technical Preparation of the Vocational Prof. 24sh

----- Other as approved

Free Electives: 6-8

Total Degree Requirements: 124

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The College of Education

Certificate-Vocational-Technical Education

Liberal Studies: As follows: 21-23

Mathematics: [MA101](#)

English: [EN101](#)

Humanities: one course from lists

Fine Arts: one course from list

Natural Science: one course, lab or non-lab

Social Science: [PC101](#)

Liberal Studies electives: one course, no course with VO prefix

College: 6

Professional Educational sequence:

[EP202](#) Educational Psychology 3sh

[FE202](#) American Education in Theory and Practice 3sh

Major: 33

Required courses:

[EN310](#) Public Speaking 3sh

[VO100](#) Preparation of the Vocational Professional I 15sh

[VO400](#) Preparation of the Vocational Professional II 15sh

Free Electives: 0

Total Certification Requirements: 60-62

The College of Education

Certificate as Secondary School Cooperative Education Teacher/Coordinator

Liberal Studies: As follows: 21-23

Mathematics: [MA101](#)

English: [EN101](#)

Humanities: one course from lists

Fine Arts: one course from list

Natural Science: one course, lab or non-lab

Social Science: [PC101](#)

Liberal Studies electives: one course, no courses with VO prefix

College: 6

Professional Educational sequence:

[EP202](#) Educational Psychology 3sh

[FE202](#) American Education in Theory and Practice 3sh

Major: 48

Required courses:

[EN310](#) Public Speaking 3sh

[VO100](#) Preparation of the Vocational Professional I 15sh

[VO400](#) Preparation of the Vocational Professional II 15sh

[VO402](#) Special Topics in Vocational Pedagogical Prep 15sh

Free Electives: 0

Total Certification Requirements: 75-77

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The College of Education

Department of Adult and Community Education

Gary J. Dean, Chairperson; Ferro

The Department of Adult and Community Education is a graduate department offering two programs leading to the Master of Arts degree. Adult and Community Education helps students learn about teaching and planning educational programs for adults in a wide variety of settings including business and industry, the community, health agencies and hospitals, colleges and universities, and religious institutions. The Master of Arts in Adult Education and Communications Technology, jointly administered by the Department of Communications Media, prepares students to become adult educators with an emphasis on the use of technology such as computers, production design, radio and television, and distance education technology.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:36 PM on 7/24/97

The College of Education

Department of Communications Media

Kurt P. Dudt, Chairperson;

Ausel, Handler, Juliette, Kanyarusoke, Kornfeld, Lamberski, Leidman-Golub, Start, Willis, Wilson; and professors emeriti Klingensmith, MacIsaac, Murray, Sargent, Young

The department offers a Bachelor of Science in Communications Media and two minors, one in Communications Media and one in Educational Technology. The minor in Communications Media is an eighteen-credit program designed to complement any major. The minor in Educational Technology is a twenty-four-credit program designed for students in the College of Education who are completing a teaching degree. The department also serves preservice teachers and other students who are required to complete the course Technology for Learning and Instruction, [CM301](#).

The philosophy of the Communications Media Department is to prepare generalists in the area of Communications. Our students may select from a number of elective courses, depending on their career interests.

The department faculty offers a wide variety of experience in all areas of communications media. With the combination of classroom work and the optional internship program, departmental graduates are competitive for positions in various areas. Students graduating with a degree in Communication Media have obtained positions in such areas as radio, television, cable television, public relations, advertising media, media relations, and corporate media relations.

The department has two minors, one in Communications Media and one in Educational Technology. The minor in Communications Media is an eighteen-credit program designed to complement any major. The minor in Educational Technology is a twenty-four-credit program designed for students in the College of Education who are completing a teaching degree.

Students changing majors from other academic departments within the university are required to be in good academic standing before the transfer will be approved.

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The College of Education

Bachelor of Science Degree--Communications Media@

Liberal Studies: As outlined in Liberal Studies section 54-55

with the following specifications:

Social Science: [PC101](#)

Liberal Studies electives: BE/CO/IM101, no courses with CM prefix,
not to include courses cross-listed courses with CM

College: 3

[EP202](#) Educational Psychology or
[EP388](#) Interpersonal Effectiveness and Communication 3sh

Major: 42

Required courses:

[CM101](#) Communications Media in American Society 3sh
[CM200](#) Images 3sh
[CM395](#) Career Planning in Communications Media 1sh

One course from the following list:

[CM303](#) Scriptwriting 3sh
[CM330](#) Communications Media in Training and Education 3sh
[CM403](#) Writing for Broadcasting 3sh

Controlled electives:

Other Communications Media elective courses 32sh

Other requirements:

Out-of College Requirement (advisor approval) 18sh

Free Electives:

6-7

(#)Total Degree Requirements:

124

(@) To be implemented 1997-98, pending Council of Trustees approval

(#) A maximum of 12 sh of CM493 can be applied to requirements for graduation.

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The College of Education

Minor-Communications Media

18

Required courses:

CM101	Communications Media in American Society	3sh
CM---	Electives in Communication Media	15sh

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The College of Education

Minor-Educational Technology

24

Required courses:

CM101	Communications Media in American Society	3sh
CM460	Alternative Systems of Communication	3sh
CO101	Microbased Computer Literacy	3sh
CM---	Electives in Communications Media	15sh

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The College of Education

Department of Educational and School Psychology

William F. Barker, Chairperson;
Briscoe, Damiani, Hoellein, Levinson, Quirk, Rafoth, Rattan; and professors emeriti DeFabo, Meadowcroft,
Shank, Yanuzzi

The department services undergraduate and graduate students. Undergraduate students may declare a minor in Educational Psychology by making application to the department chairperson. Fifteen semester hours from the courses are required for the minor in educational psychology.

The department also offers the M.Ed. in Educational Psychology as well as a post-master's certification and a Doctor of Education in School Psychology. Refer to the current [Graduate School Catalog](#) for details.

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The College of Education

Department of Foundations of Education

Kurt P. Dudt, Interim Chairperson; Penta, Rotigel, Thibadeau; and professor emeritus Chu

The Department of Foundations of Education serves all undergraduate students in teacher certification preparation with an introductory course, American Education in Theory and Practice. Additional areas of coursework are in urban education, curriculum development, and contemporary issues and trends in education.

Graduate courses offered by this department include Comparative, Historical, Philosophical, and Social Foundations of Education; Curriculum Development; Professional Negotiations in Education; and International Education Studies Program. For specific information concerning these courses, see the current edition of the Graduate School Catalog.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 9:33 PM on 7/24/97

The College of Education

Department of Professional Studies in Education

1. [Elementary Education Program](#)
2. [Early Childhood Education Program](#)
3. [Graduate Programs](#)

Edwina B. Vold, Chairperson; Bieger, Briscoe, Carreiro, Cole Slaughter, Corbett, Elliott, Fennimore, Gerlach, Jalongo, Kaufman, King, Kupetz, Mikkelsen, Millward, Nastase, Stamp, Tidwell, Mark Twiest, Meghan Twiest, L. Vold, Willis, Yan; and professors emeriti Dorsey, Glott, Lore, Lott, McFeely, Mott, Reilly, Rizzo

Elementary Education Program

The Elementary Education program is designed to provide learning experiences which will assist students in developing into highly competent and effective teachers in grades K-6. Students are able to expand their knowledge through coursework and field experiences which embody content, knowledge of liberal studies, pedagogy, curriculum, human development and learning, and a historical and philosophical basis to undergird one's professional behavior. A 2.5 cumulative QPA is required to apply for teacher certification, to take major courses in the department, to apply for Junior Standing, and to student teach.

Early Childhood Education Program

The Early Childhood Education Program is designed to provide learning experiences which assist students to become competent and effective teachers in N-Grade 3. It prepares the students to select from among a variety of techniques and strategies those which appropriately expand children's cognitive, social, emotional, and physical development. Through lectures, research, and on-site experiences with young children, students are able to expand their own knowledge of and attitudes toward education of young children.

A 2.5 cumulative QPA is required to apply for teacher certification, to take major courses in the department, to apply for junior standing, and to student teach. Students must meet the requirements leading to teacher certification as outlined in the Academic Policies section of this catalog.

Graduate Programs

Programs leading to the M.Ed. and Ed.D. degrees are described in the current issue of the [Graduate School Catalog](#). Internships and assistantships are available.

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The College of Education

Bachelor of Science in Education-Elementary Education (*)

Liberal Studies: As outlined in Liberal Studies section 56-57

with the following specifications:

Mathematics: [MA151](#)

Natural Science: [SC101](#), [SC102](#), [SC103](#), and [SC104](#) (1)

Social Science: [GE101](#), [GE102](#), or [GE104](#) (one course), [PC101](#)

Liberal Studies electives: [MA152](#) (2);

no courses with EL prefix; not to include [HE218](#)

College: 27

Professional Education sequence: (3)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh
FE202	American Education in Theory and Practice	3sh

Major: 34

Required courses:

EL211	Music for the Elementary Grades	2sh
EL213	Art for the Elementary Grades	2sh
EL215	Child Development	3sh
EL221	Children's Literature	3sh
EL222	Teaching of Reading I	3sh
EL312	Teaching of Elementary Science	2sh
EL313	Teaching Mathematics in the Elementary School	3sh
EL314	Teaching of Health and Physical Education	2sh
EL257	Pedagogy I	3sh

EL357	Pedagogy II	3sh
EL411	Teaching of Social Studies	3sh
EL425	Language Arts Across the Curriculum	3sh
ED499	Multicultural Education	2sh

Other Requirements:

9

Special electives from a defined discipline (4)

Biology: [BI103](#), [BI104](#), [BI150](#), [BI155](#), [BI232](#), [BI261](#), [BI265](#),
[BI269](#), [BI272](#), [BI273](#)

Child Development/Family Relations: [HE220](#), [HE224](#), [HE317](#),
[HE321](#), [HE324](#), [HE418](#), [HE422](#), [HE424](#), [HE426](#), [HE463](#)

Criminology: [CR101](#), [CR270](#), [CR357](#), [CR361](#)

Early Childhood: [EE200](#), [EE220](#), [EE310](#), [EE311](#), [EE312](#), [EE315](#)

Economics: [EC121](#), [EC122](#), [EC241](#)

Educational Psychology: [EP373](#), [EP376](#), [EP378](#)

English Department: [EN220](#), [EN310](#), [EN312](#), [EN324*](#), [EN330*](#), [EN333](#),
[EN345](#), [EN348](#)

[* = most highly recommended by English Department]. Add English course
only at drop/add; see chairperson, English Department.

French: [FR201](#), [FR202](#) (or [FR203](#)), [FR221](#), [FR222](#),
[FR321-FR322](#), [FR351-FR352](#)

Geoscience: [GS121](#), [GS123](#), [GS131](#), [GS133](#), [GS221](#), [GS336](#),
[GS342](#), [GS361](#), [GS371](#), [GE371](#)

History: [HI308](#), [HI311](#), [HI320](#), [HI321](#), [HI322](#), [HI326](#), [HI331](#),
[HI340](#), [HI341](#), [HI342](#), [HI343](#), [HI360](#), [HI365](#), [HI369](#), [HI373](#)

Mathematics: [MA317](#), [MA420](#), [MA456](#), [MA457](#), [MA458](#), [MA459](#),
[MA471](#), [MA483](#)

Philosophy: [PH101](#), [PH120](#), [PH222](#), [PH223](#), [PH323](#), [PH329](#),
[PH330](#), [PH400](#), [HI405](#)

Psychology: [PC310](#), [PC311](#), [PC320](#), [PC371](#), [PC373](#)

Reading: [ED408](#), [EL422](#), [EE220](#) or [EE451](#)

Religious Studies: [RS100](#), [RS110](#), [RS200](#), [RS210](#), [RS250](#), [RS260](#),
[RS290](#), [RS311](#), [RS380](#)

Sociology: [SO333](#), [SO336](#), [SO337](#), [SO428](#)

Sociology (Urban Education): [SO333](#), [SO335](#), [SO339](#)

Spanish: [SP101](#), [SP102](#), [SP111](#), [SP201](#), [SP221](#), [SP222](#), [SP230](#),
[SP321](#) or FLISET Program.

Students may also select a set of special electives from the list of Liberal Studies electives of non-Western courses that have not been used previously in their program.

Total Degree Requirements:

126-127

(*)See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) This sequence of ten credits fulfills the Liberal Studies natural science requirement.

(2) For students who test out of [MA152](#), consult your advisor for suggested math courses.

(3) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX300](#) (2sh).

(4) More than twenty options are available for groupings in specific departments or cross-departmental areas. This requirement is also fulfilled by completion of an approved specialty such as FLISET, math, or reading. With permission of the chairperson of Professional Studies in Education and a specific department, a student may be allowed to create an area of specialty other than those listed. See department office for full listing; check prerequisites carefully. Submit plan to advisor for approval.

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The College of Education

Dual Certification-Elementary Education for Majors in Education of Persons with Hearing Loss

Students majoring in Education of Persons with Hearing Loss may complete academic requirements for certification in Elementary Education by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters.

ED342	Pre-student Teaching Clinical Experience II (EL)	1sh
ED421	Student Teaching (1)	6sh
EE312	Aesthetic Experiences for Young Children	3sh
EL221	Children's Literature	3sh
EL312	Teaching of Elementary Science	2sh
EL313	Teaching Mathematics in the Elementary School (2)	3sh
EL257	Pedagogy I	3sh
EL357	Pedagogy II	3sh
EL411	Teaching of Social Studies	3sh
EL425	Language Arts Across the Curriculum	3sh

Recommended electives:

EL351	Creative Activities in the Elementary School	3sh
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(1) Students are required to do 6 semester hours of student teaching in the regular elementary classroom in addition to the 12 semester hours required in the EH major, or a total of 18 semester hours of student teaching inclusive for both certifications.

(2) [MA152](#) is a prerequisite for [EL313](#) and should be taken as a Liberal Studies elective.

The College of Education

Dual Certification-Elementary Education for Majors in Education of Exceptional Persons

Students majoring in Education of Exceptional Persons may complete academic requirements for certification in Elementary Education by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters.

ED342	Pre-student Teaching Clinical Experience II (EL)	1sh
ED421	Student Teaching (1)	6sh
EE312	Aesthetic Experiences for Young Children	3sh
EL221	Children's Literature	3sh
EL312	Teaching of Elementary Science	2sh
EL313	Teaching Mathematics in the Elementary School(2)	3sh
EL257	Pedagogy I	3sh
EL357	Pedagogy II	3sh
EL411	Teaching of Social Studies	3sh
EL425	Language Arts Across the Curriculum	3sh

Recommended electives:

EL351	Creative Activities in the Elementary School	3sh
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(1) Students are required to do 6 semester hours of student teaching in the regular elementary classroom in addition to the 12 semester hours required in the EX major, or a total of 18 semester hours of student teaching inclusive for both certifications.

(2) [MA152](#) is a prerequisite for [EL313](#) and should be taken as a Liberal Studies elective.

The College of Education

Bachelor of Science in Education-Early Childhood Education (*) (@)

Liberal Studies: As outlined in Liberal Studies section
with the following specifications:

56

Mathematics: [MA151](#)

Natural Sciences: [SC101](#), [SC102](#), [SC103](#), and [SC104](#)

Social Science: [GE101](#), [GE102](#), [GE103](#), or [GE104](#); [PC101](#)

Liberal Studies electives: no courses with EE prefix;
not to include [HE218](#)

College:

27

Professional Education sequence:

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh
FE202	American Education in Theory and Practice	3sh

Major:

43

Required courses: (1)

ED499	Multicultural/Multiethnic Education	2sh
EE200	Introduction to Early Childhood Education	3sh
EE220	Language Development and Children's Literature	3sh
EE310	Integrated Curriculum I (Math, Science)	3sh
EE311	Integrated Curriculum II (Social Science)	3sh
EE312	Aesthetic Experiences for Young Children	3sh
EE315	Development and Learning Through Play	3sh
EE451	Teaching Primary Reading	3sh

EL215	Child Development	3sh
EL257	Pedagogy I	3sh
EL357	Pedagogy II	3sh
EX300	Education of the Exceptional Child	3sh
EX415	Preschool Education for Children with Disabilities	3sh
HE426	Techniques of Parent Education	3sh
MA320	Mathematics for Early Childhood	3sh

Free Electives: 3

Total Degree Requirements: 129

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

@) To be implemented 1997-98, pending Council of Trustees approval

(1) A 2.5 overall grade-point average is required to register for major courses.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:17 PM on 7/24/97

The College of Education

Dual Certification-Early Childhood Education for Majors in Education of Persons with Hearing Loss

Students majoring in Education of Persons with Hearing Loss may complete academic requirements for certification in Early Childhood Education by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters.

ED242	Pre-student Teaching Clinical Experience I (1)	1sh
ED342	Pre-student Teaching Clinical Experience II (EE)	1sh
ED421	Student Teaching (N-3) (2)	6sh
EE200	Introduction to Early Childhood Education	3sh
EE220	Language Development and Children's Literature	3sh
EE310	Integrated Curriculum I	3sh
EE311	Integrated Curriculum II	3sh
EE315	Development and Learning Through Play	3sh
EL357	Pedagogy II	3sh
MA320	Mathematics for Early Childhood	3sh

Recommended electives:

EE312	Aesthetic Experiences for Young Children	3sh
EL351	Creative Activities in the Elementary School	3sh

(1) EH majors must complete 10 hours of observation in an N-3 classroom.

(2) EH majors must complete 6 semester hours of student teaching in EE (N-3) in addition to the 12 semester hours required in the EH major, or a total of 18 semester hours of student teaching inclusive for both certifications.

The College of Education

Dual Certification-Early Childhood Education for Majors in Education of Exceptional Persons

Students majoring in Education of Exceptional Persons may complete academic requirements for certification in Early Childhood Education by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters.

ED242	Pre-student Teaching Clinical Experience I (1)	1sh
ED342	Pre-student Teaching Clinical Experience II (EE)	1sh
ED421	Student Teaching (N-3) (2)	6sh
EE200	Introduction to Early Childhood Education	3sh
EE220	Language Development and Children's Literature	3sh
EE310	Integrated Curriculum I	3sh
EE311	Integrated Curriculum II	3sh
EE315	Development and Learning through Play	3sh
EL357	Pedagogy II	3sh
EX415	Preschool Education of Children with Disabilities	3sh

Recommended electives:

EE312	Aesthetic Experiences for Young Children	3sh
EL351	Creative Activities in the Elementary School	3sh

(1) EX majors must complete 10 hours of observation in a N-3 classroom.

(2) EX majors must complete 6 semester hours of student teaching in EE (N-3) in addition to the 12 semester hours required in the EX major, or a total of 18 semester hours of student teaching inclusive for both certifications.

The College of Education

Foreign Languages and International Studies Program for Elementary Teaching (FLISET) (2)

Elementary Education/Early Childhood majors may develop an academic specialty in Spanish and International Studies, which will prepare them to teach in elementary programs where content teaching in the foreign language is the objective. To complete this specialty area, students must: (1) attain a minimum level of intermediate-high on the ACTFL/ETS scale; (2) successfully complete a six-week summer study/internship abroad at a site approved by the department (usually the summer following the junior year); (3) successfully complete the student teaching experience in a bilingual or immersion elementary school classroom; and (4) complete the following minimum number of credits in Spanish:

Required courses: 22 (1)

SP201	Intermediate Spanish	4sh
SP221	Intermediate Conversation	3sh
SP230	Intermediate Spanish Composition	3sh
SP290	Intensive Spanish for Elementary Teaching	3sh
SP321	Advanced Conversation	3sh
SP340	Hispanic Civilization Through the 19th Century	3sh
SP390	Teaching of Elementary Content Through the Spanish Language	3sh

Controlled elective: one course 3

SPXXX	Elective (taken abroad)	3sh
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Other Requirements: 0

[GE252](#), [PS387](#), or [AN474](#)

as the non-Western course

Study/internship in Mexico

for six to eight weeks the

summer following junior year 0-6sh

Student teaching experience

in immersion classroom 0sh

(1) While the total number of credits required in Spanish in order to attain the desired proficiency level will vary from student to student depending on the entry level of proficiency, most students can expect to complete between twenty-five and thirty-one credits.

(2) Students interested in the program should contact the director of the FLISET Program in the Department of Spanish and Classical Languages or the FLISET coordinator in the Department of Professional Studies in Education.

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The College of Education

Department of Special Education and Clinical Services

Richard C. Nowell, Chairperson; Bormann, Chapman, Domaracki, Ferrell, Fiddler, Glor-Sheib, Jackson, Klein, Marshak, Newell, Reber, Robertson, Smith, Stein, Turton; and professors emeriti M. Bahn, W. Bahn, Morris, Scanlon

This department offers the degree of Bachelor of Science in Education in any one of four majors. Each of the four majors follows a prescribed sequence of courses. Students may elect to major in any one of the following fields:

- [A. Education of Exceptional Persons](#)
- [B. Speech-Language Pathology and Audiology](#)
- [C. Rehabilitation](#)
- [D. Education of Persons with Hearing Loss](#)

The following grade policy applies to all four undergraduate programs of study in the Department of Special Education and Clinical Services. Individual students may appeal any aspect of the policy by making a formal written request to the Departmental Appeals Committee.

1. No more than one "D" in major courses will be accepted toward graduation and certification.
2. No "D" is permitted as the final recorded grade in any of the following courses.

ED421 :	Student Teaching
ED441 :	Student Teaching
EH308 :	Language for Persons with Hearing Loss
EX425 :	Methods and Curriculum (Mild-Moderate Disabilities)
EX435 :	Methods and Curriculum (Severe-Profound Disabilities)
RH322 :	Rehabilitation Case Study and Interpretation
RH488 :	Field Training in Rehabilitation
RH493 :	Field Training in Rehabilitation
SH122 :	Clinical Phonology

The following enrollment policy applies to three undergraduate programs in the Department of Special Education and Clinical Services: Education of Exceptional Persons, Education of Persons with Hearing Loss, and Speech-Language Pathology and Audiology. To enroll in a 300 or 400 level course in those programs, a student must have a cumulative QPA of 2.5 and must meet the other provisions of the four-step process for admission to teacher education and must either be a departmental major or have permission of the department chairperson.

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The College of Education

A. Education of Exceptional Persons

Completion of the sequence of study in this major leads to Pennsylvania Department of Education special education certification (Mentally and/or Physically Handicapped Certificate). Students will be prepared to teach persons with mental retardation, autism, developmental disabilities, learning disabilities, brain injuries, emotional/behavioral disorders, physical disabilities, and multiple disabilities. Academic coursework and field experiences are integrated within the course of study. The program also provides a foundation for pursuing additional study at the graduate level.

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The College of Education

Bachelor of Science in Education-Education of Exceptional Persons (*)

Liberal Studies: As outlined in Liberal Studies section 54-55

with the following specifications:

Mathematics: [MA151](#)

Social Science: [PC101](#)

Natural Science: laboratory science required ([SC105-SC106](#) recommended)

Liberal Studies electives: no course with EX prefix

College: 27

Professional Education sequence:

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-Student Teaching Clinical Experience I	1sh
ED342	Pre-Student Teaching Clinical Experience II	1sh
ED421	Student Teaching (Mild/Moderate)	6sh
ED441	Student Teaching (Severe/Profound)	6sh
ED442	School Law	1sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh
FE202	American Education in Theory and Practice	3sh

Major: 43

Required courses:

EX111	Introduction to Exceptional Persons	3sh
EX112	Typical and Atypical Growth and Development	3sh
EX221	Methods of Teaching Mathematics to Persons with Disabilities	3sh
EX222	Methods of Teaching Reading to Persons with Disabilities	3sh
EX231	Methods of Teaching Content Area Subjects to Persons with Disabilities	3sh
EX321	Methods of Teaching Language Arts to Persons	

	with Disabilities	3sh (1)
EX340	Introduction to Behavior Management in Special Education	3sh
EX416	Education of Persons with Emotional or Behavioral Disorders	3sh
EX417	Education of Persons with Mental Retardation or Developmental Disabilities	3sh
EX418	Education of Persons with Physical or Multiple Disabilities	3sh
EX419	Education of Persons with Brain Injuries or Learning Disabilities	3sh
EX425	Methods and Curriculum (Mild-Moderate Disabilities)	3sh
EX435	Methods and Curriculum (Severe-Profound Disabilities)	3sh
EX440	Ethical and Professional Behavior	1sh
SH254	Classroom Management of Language Disorders	3sh

Total Degree Requirements:

124-125

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) A minimum QPA of 2.5 is required to enroll in 300 and 400 level major courses

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The College of Education

Dual Certification-Education of Exceptional Persons

Students majoring in Elementary Education or Early Childhood Education may complete academic requirements for certification in Education of Exceptional Persons by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters.

ED342	Pre-student Teaching Clinical Experience II (EX)	1sh
ED421	Student Teaching (1) (EX)	6sh
EX111	Introduction to Exceptional Persons	3sh
or		
EX300	Education of the Exceptional in the Regular Classroom	3sh
EX416	Education of Persons with Emotional or Behavioral Disorders	3sh
EX417	Education of Persons with Mental Retardation	
	or Developmental Disabilities	3sh
EX418	Education of Persons with Physical or Multiple Disabilities	3sh
EX419	Education of Persons with Brain Injuries	
	or Learning Disabilities	3sh
EX425	Methods and Curriculum (Mild-Moderate Disabilities)	3sh
EX435	Methods and Curriculum (Severe-Profound Disabilities)	3sh
EX440	Ethical and Professional Behavior	1sh

Recommended electives:

EX340	Introduction to Behavior Management	3sh
SH254	Classroom Management of Language Disorders	3sh

(1) The 6 semester hours of student teaching in EX with students with severe and profound disabilities are in addition to the 12 semester hours normally required for Elementary Education or Early Childhood Education majors.

The College of Education

B. Speech-Language Pathology and Audiology

Completion of the sequence of courses in Speech-Language Pathology and Audiology serves as a preprofessional program for students planning to become practicing speech-language pathologists or audiologists. Students entering the undergraduate program should be aware of the following:

1. IUP is accredited by the Educational Standards Board of the American Speech-Language-Hearing Association and qualifies a person for the Certificate of Clinical Competence from the American Speech-Language-Hearing Association and Pennsylvania State Licensure.
2. National certification, state licensure, and Pennsylvania Department of Education Certification in Speech-Language Impaired are available only to holders of the master's degree in Speech-Language Pathology.
3. Students will need to project a minimum QPA of 3.0 to qualify for admission to most graduate schools.
4. Upon completion of a master's degree at IUP, students will be prepared to provide services in work settings such as hospitals, community clinics, public health programs, and rehabilitation settings.
5. Students who elect to prepare for certification in Speech-Language Impaired from the Pennsylvania Department of Education must successfully complete the College of Education requirements listed below prior to enrollment in the Master of Science degree in the Speech-Language Pathology program at IUP.

The University Speech and Hearing Clinic serves as the laboratory for the undergraduate clinical practicum. Prior to registration for the clinical practicum course (SH420), students must earn a minimum QPA of 3.0 and complete the following hours of observation through enrollment in ED242 and ED342:

- A. 25 hours of observation in speech-language pathology supervised by an IUP faculty member who holds a Certificate of Clinical Competence in Speech-Language Pathology.
- B. 20 hours of classroom observation
 1. Five hours in regular education classrooms, K-3.
 2. Five hours in special education classrooms.
 3. Five hours in regular education classrooms with integrated special students.
 4. Five hours in community facilities such as preschools, sheltered workshops, etc. Services in this category should be of a noneducational nonspeech pathology type.

The College of Education

Bachelor of Science in Education-Speech-Language Pathology and Audiology (*)

Liberal Studies: As outlined in Liberal Studies section 54-55

with the following specifications:

Mathematics: [MA217](#)

Social Science: [PC101](#)

Natural Science: laboratory science sequence required
([BI103](#)-[BI104](#) recommended)

Liberal Studies electives: [PC310](#), no courses with SH prefix

College (*): The following are required **ONLY** for students
electing the pre-teacher certification track: 0-13

Professional Education sequence:

CM301	Technology for Learning Instruction	3sh
ED442	School Law	1sh
EP202	Educational Psychology	3sh
FE202	American Education in Theory and Practice	3sh
SH412	Organization and Administration of Speech and Hearing Programs	3sh

Major: 38-41

Required courses:

ED242	Pre-Student Teaching Clinical Experience I	1sh
ED342	Pre-Student Teaching Clinical Experience II	1sh
EX111	Introduction to Exceptional Persons	3sh
EX222	Methods of Teaching Reading to Persons with Disabilities	3sh
SH111	Introduction to Communication Disorders	3sh
SH122	Clinical Phonology	3sh
SH222	Introduction to Audiology	3sh

SH242	Speech Science I	3sh
SH251	Anatomy and Physiology of the Speech and Hearing Mechanism	3sh
SH311	Aural Rehabilitation	3sh (1)
SH334	Language Development	3sh
SH342	Speech Science II	3sh
SH406	Articulation and Language Disorders	3sh
SH408	Stuttering and Voice Disorders	3sh

Optional:

SH420	Speech Clinic	3sh
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Free Electives: [ED499](#) recommended

General Track **28-32**

Pre-Teacher Certification Track **15-19**

Total Degree Requirements 124

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) A minimum QPA of 2.5 is required to enroll in all 300 and 400 level courses for both pre-teacher certification and noncertification speech-language pathology majors.

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The College of Education

C. Rehabilitation

Completion of this program leads to the Bachelor of Science with a specialization in rehabilitation. The program is designed for students seeking career opportunities with health and welfare agencies and institutions and also provides a foundation for pursuing additional work at the graduate level.

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The College of Education

Bachelor of Science-Rehabilitation

Liberal Studies: As outlined in Liberal Studies section **54-55**

with the following specifications:

Mathematics: [MA217](#)

Natural Science: Laboratory Science sequence required

Social Science: [PC101](#), [SO151](#)

Liberal Studies electives: [PC321](#), no courses with RH prefix

Major: **48**

Required courses:

RH200	Introduction to Rehabilitation	3sh
RH211	Medical Aspects of Rehabilitation	3sh
RH220	Neurological Basis of Disability	3sh
RH312	Psychological Basis of Disability	3sh
RH321	Principles and Methods of Rehabilitation	3sh
RH322	Rehabilitation Case Study and Interpretation	3sh
RH360	Rehabilitation Counseling: Strategies	3sh
RH410	Vocational Assessment in Rehabilitation	3sh
RH412	Occupational Aspects of Rehabilitation	3sh
RH422	Current Topics in Rehabilitation	3sh
RH460	Advanced Rehabilitation Counseling	3sh
RH484	Directed Rehabilitation Activities	3sh
RH488	Field Training in Rehabilitation	6sh
RH493	Field Training in Rehabilitation	6sh

Other Requirements: **6-7**

Required course:

[EX111](#) Introduction to Exceptional Persons 3sh

Controlled elective: (1) 3-4sh

[BI150](#), [BI151](#), [BI155](#), [EH115](#), [EH244](#), [EH331](#), [EX340](#), [EX416](#),
[EX417](#), [EX418](#), [EX419](#), [HP221](#), [PC312](#), [PC378](#), [SO251](#), [SO335](#)

Free Electives:

14-16

Total Degree Requirements:

124

(1) Some Controlled Elective choices have prerequisites that may be used as free electives.

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The College of Education

D. Education of Persons with Hearing Loss

Completion of the sequence of courses in Education of Persons with Hearing Loss leads to a Bachelor of Science Degree in Education and Pennsylvania Department of Education certification as a "Teacher of the Hearing Impaired, K-12." Students are provided with the basic skills to teach in special classes for hard-of-hearing or deaf individuals.

Students enrolled in this sequence of study are prepared to assume positions as itinerant hearing therapists and classroom teachers for individuals ranging from preschoolers to adults. Work settings may include public schools, continuing education programs, and home training situations.

Observations, clinical experience, and practicum are required prior to placement in a school environment for the student teaching experience. The student will complete the following 50 hours of observation through enrollment in [ED242](#).

0. 25 hours of observation of itinerant and self-contained classrooms for the hearing impaired.
 - A. 10 hours of observation in regular education classrooms.
 - B. 10 hours of observation in special education classrooms.
 - C. 5 hours of observation in a noneducational setting.

The student will complete 30 hours of individual clinical experience through enrollment in [EH329](#) and [EH330](#) and 25 hours of school-based practicum through enrollment in [ED342](#).

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 12:05 AM on 7/25/97

The College of Education

Bachelor of Science in Education-Education of Persons with Hearing Loss (*)

Liberal Studies: As outlined in Liberal Studies section 54-55

with the following specifications:

Mathematics: [MA151](#)

Social Science: [PC101](#)

Natural Science: Laboratory Science sequence required

Liberal Studies electives: no courses with EH prefix

College: 30

Professional Education sequence:

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED421	Student Teaching-Hearing Impaired (Pri-Elem)	6sh
ED441	Student Teaching-Hearing Impaired (Jr-Sr H.S.)	6sh
ED442	School Law	1sh
EH360	General Methodology for Persons with Hearing Loss	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh (1)
FE202	American Education in Theory and Practice	3sh

Major: 38

Required courses:

EH114	Introduction to Persons with Hearing Loss	3sh
EH115	Introduction to Sign Language	1sh
EH244	Intermediate Sign Language	1sh
EH307	Speech for Persons with Hearing Loss	3sh (2)
EH308	Language for Persons with Hearing Loss	3sh
EH329	Hearing Practicum I	1sh

EH330	Hearing Practicum II	1sh
EH331	Advanced Sign Language	1sh
EH351	Teaching Reading to Persons with Hearing Loss	3sh
EH365	Parent-Preschool Programs for Children with Hearing Loss	3sh
EX111	Introduction to Exceptional Persons	3sh
SH222	Introduction to Audiology	3sh
SH242	Speech Science I	3sh
SH334	Language Development	3sh (2)
SH311	Aural Rehabilitation	3sh (2)

Controlled electives:

One course from: [EX112](#) or [EL215](#) or [HE218](#) 3sh

Free Electives: 1-2

Total Degree Requirements: 124

(* See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

- (1) [MA217](#): Probability and Statistics may substitute for [EP377](#) but may not replace [MA151](#).
- (2) A minimum QPA of 2.5 is required to enroll in all 300 and 400 level major courses.

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The College of Education

Dual Certification-Education of Persons with Hearing Loss for Early Childhood Education Majors

Students majoring in Early Childhood Education may complete academic requirements for certification in Education of Persons with Hearing Loss by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters.

ED342	Pre-student Teaching Clinical Experience II	1sh
ED421	Student Teaching (1) (EH)	6sh
EH114	Introduction to Persons with Hearing Loss	3sh
EH115	Introduction to Sign Language	1sh
EH244	Intermediate Sign Language	1sh
EH307	Speech for Persons with Hearing Loss	3sh
EH308	Language for Persons with Hearing Loss	3sh
EH329	Hearing Practicum I	1sh
EH330	Hearing Practicum II	1sh
EH331	Advanced Sign Language	1sh
EH365	Parent-Preschool Programs for Children with Hearing Loss	3sh
SH222	Introduction to Audiology	3sh
SH311	Aural Rehabilitation	3sh

Recommended electives:

EH351	Teaching Reading to Persons with Hearing Loss	3sh
SH242	Speech Science I	3sh
SH334	Language Development	3sh

(1) Student Teaching Configuration—In addition to their regular requirement of 12 semester hours in Early Childhood Education, dual certification students must do an extra six-credit placement. The recommended pattern is as follows:

- 6 semester hours in K-3 regular classroom

- 6 semester hours in K-3 classroom with deaf and/or hard-of-hearing pupils included
- 6 semester hours in upper school classroom with deaf and/or hard-of-hearing pupils
- Total = 18 credits inclusive for both certifications

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 12:10 AM on 7/25/97

The College of Education

Dual Certification-Education of Persons with Hearing Loss for Elementary Education Majors

Students majoring in Elementary Education may complete academic requirements for certification in Education of Persons with Hearing Loss by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters.

ED342	Pre-student Teaching Clinical Experience II	1sh
ED421	Student Teaching (1) (EH)	6sh
EH114	Introduction to Persons with Hearing Loss	3sh
EH115	Introduction to Sign Language	1sh
EH244	Intermediate Sign Language	1sh
EH307	Speech for Persons with Hearing Loss	3sh
EH308	Language for Persons with Hearing Loss	3sh
EH329	Hearing Practicum I	1sh
EH330	Hearing Practicum II	1sh
EH331	Advanced Sign Language	1sh
EH351	Teaching Reading to Persons with Hearing Loss	3sh
SH222	Introduction to Audiology	3sh
SH311	Aural Rehabilitation	3sh

Recommended electives:

SH242	Speech Science I	3sh
SH334	Language Development	3sh

(1) **Student Teaching Configuration**—In addition to their regular requirement of 12 semester hours in Elementary Education, dual certification students must do an extra six-credit placement. The recommended pattern is as follows:

- 6 semester hours in a regular elementary classroom
- 6 semester hours in an elementary classroom with deaf and/or hard-of-hearing pupils included
- 6 semester hours in upper school classroom with deaf and/or hard-of-hearing pupils
- Total = 18 credits inclusive for both certifications

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The College of Fine Arts

The College of Fine Arts has professional programs in art, music, and theater and awards the Bachelor of Arts and Bachelor of Fine Arts degrees. Programs leading to certification to teach are offered in cooperation with the College of Education and lead to the Bachelor of Science degree. The college offers minors in art, music, theater, and dance.

With one of the largest arts programs in the commonwealth, IUP's College of Fine Arts offers members of both the university and the extended community many opportunities to learn and grow. Dedicated facilities for each department are augmented by a 1,600-seat auditorium, two theaters, two art galleries, a university museum, a recital hall, a computer laboratory, and a dance studio. Typically, the college sponsors two hundred to three hundred arts events annually, and our students, who currently enjoy the strongest academic profile of any of the university's colleges, have opportunities to develop their talents locally, regionally, and even nationally through a variety of long-established field-based programs.

There are four objectives for the College of Fine Arts:

1. to provide special academic programs for majors in the arts
2. to provide service courses for other departmental majors
3. to offer all university students general courses in the arts
4. to make cultural programs in the arts available to the university, the surrounding community, and the local region

There are no additional college requirements for graduation beyond the university and departmental requirements listed in other sections of this catalog.

College Majors

Art (History or Studio Track)

Art Education

General Fine Arts

Music (History and Literature, Performance, or Theory and Composition Track)

Music Education

Theater

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The College of Fine Arts

General Fine Arts Major

A general fine arts major program is available for those students desiring to take coursework in art, dance, interior design, media, music, and theater. This program is offered in conjunction with the College of Education and the College of Health and Human Services. This interdisciplinary program, including an opportunity for an internship ([FA493](#)), is coordinated through the Office of the Dean, College of Fine Arts, where additional information is available.

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The College of Fine Arts

Bachelor of Arts-General Fine Arts

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Liberal Studies electives: no courses with FA prefix

Major: 36

Required courses:

Courses must come from three departments,
one of which must be Art, Music, or Theater

Controlled electives:

Art: Art Education (AE), Art History (AH), Art Studio (AR)

Music: Music (MU), Music History (MH), or Applied Music (AM)

Theater: Any Theater (TH) courses

Consumer Services: Interior Design courses (CS)

Communications Media: Any courses (CM)

Dance: (HP) Dance courses

Other Requirements: 0

At least one-third (12) of the major credits must be in
courses numbered in the 300s and 400s. No course that is
used to fulfill Liberal Studies requirements may be used
again to meet major requirements.

Free Electives: 33-35

Total Degree Requirements: 124

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The College of Fine Arts

Department of Art

Anthony G. DeFurio, Chairperson; Ali, Ben-Zvi, Boerner, Burwell, Ciganko, Clay, Hamilton, Hanson, Hedman, Lacey, Mitchell, Nestor, Palmisano, J. Slenker, R. Slenker, Villalobos, Weiland; and professors emeriti Balsiger, Battaglini, Dongilla, Dropcho, Innes, Johnson, McVitty, Seelhorst, Vislosky, Wert

The Department of Art provides both general and special courses in art, directed toward the development of the student's creative and expressive abilities. Degrees offered are the Bachelor of Arts with tracks in either Art History or Art Studio, the Bachelor of Fine Arts in Art Studio, and the Bachelor of Science in Education in Art Education. The degree in art education provides certification for teaching art in grades K-12 in the schools of Pennsylvania.

The Department of Art offers a cooperative program with the Art Institute of Pittsburgh. Students interested in commercial art, with departmental approval, may earn credit toward their major at the Art Institute.

All art majors are obligated to fulfill the university requirements for Liberal Studies. Art education majors must maintain a 2.5 average overall QPA, and this is a prerequisite to student teaching.

A minor in art is available, consisting of at least 18 semester hours in art courses approved by the chairperson of the Department of Art.

Acceptance by the Department of Art as a major requires the submission of a portfolio and approval of the portfolio committee. Detailed information will be sent to the applicant upon request.

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The College of Fine Arts

Bachelor of Arts-Art/History Track

Liberal Studies: As outlined in Liberal Studies section **53-55**

with the following specifications:

Fine Arts: [MH101](#) or [TH101](#)

Liberal Studies electives: no courses with AH prefix

Major:

Foundation required: **15**

AR100	Arts of the 20th Century	3sh
AR111	Figure Drawing	3sh
AR112	Fundamentals of Drawing and Design	3sh
AR113	Three-Dimension Design	3sh
AR114	Color and Two-Dimensional Design	3sh

Art History required: **30**

AH205	Ancient to Medieval Art	3sh
AH206	Renaissance to Baroque Art	3sh
AH211	Modern Art	3sh
AH222	Art in America	3sh
AH407	Medieval Art	3sh
AH408	Italian Renaissance	3sh
AH409	Baroque and Rococo Art	3sh
AH412	Classical Art	3sh
AH413	Senior Seminar (To be taken during senior year)	3sh
AH416	Northern Renaissance Art	3sh

Free Electives: (1) **24-26**

AH406	Ancient Migratory Art	3sh
AH424	Art of the East	3sh
AH426	Pre-Columbian Art	3sh
AH493	Internship	3-12sh

(1) It is recommended that the student of art history make judicious choices of elective courses in consultation with the major advisor. Students may consider additional foundation or advanced studio electives, advanced art history, and related academic electives. Course selection in a foreign language is strongly recommended.

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The College of Fine Arts

Bachelor of Arts-Art/Studio

Liberal Studies: As outlined in Liberal Studies section **50-52**

with the following specifications:

Fine Arts: Fulfilled by Art History counted in major

Liberal Studies electives: [AH206](#); no courses with AR prefix

Major:

Foundation required: **15**

AR100	Arts of the 20th Century	3sh
AR111	Figure Drawing	3sh
AR112	Fundamentals of Drawing and Design	3sh
AR113	Three-Dimension Design	3sh
AR114	Color and Two-Dimensional Design	3sh

Foundation electives:

(Select 5 of the following 8 courses) **15**

AR211	Painting	3sh
AR213	Wood/Furniture Design	3sh
AR214	Ceramics	3sh
AR215	Sculpture	3sh
AR216	Basic Metal Techniques	3sh
AR217	Printmaking	3sh
AR218	Graphic Design	3sh
AR219	Fibers	3sh

Art History required: **9**

AH205	Ancient to Medieval Art	3sh(1)
AH206	Renaissance to Baroque Art	3sh(2)
AH211	Modern Art	3sh(3)
AH413	Senior Seminar (To be taken during senior year)	3sh

Advanced Studio required: (4) 21

Advanced Studio courses to be selected from list:

[AR421](#), [AR451](#), [AR452](#), [AR453](#), [AR454](#), [AR455](#), [AR457](#),
[AR459](#), [AR460](#), [AR481](#), [AR493](#) (5)

Free Electives: 12-14

Total Degree Requirements: 124

- (1) Credits counted in Liberal Studies Fine Arts requirement.
- (2) Credits counted under Liberal Studies electives.
- (3) [AH222](#) may be substituted for AH211.
- (4) Students must complete three credits within an advanced studio before permission will be granted to enroll in the six-credit component of the advanced level. Permission of the instructor is a prerequisite to all six-credit advanced studios.
- (5) Inclusion of internship credits toward any portion of fulfillment of degree requirements must be approved by the departmental chair and student's major advisor. Approval must be obtained in writing prior to enrollment.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:09 AM on 7/25/97

The College of Fine Arts

Bachelor of Fine Arts-Studio

Liberal Studies: As outlined in Liberal Studies section **50-52**

with the following specifications:

Fine Arts: Fulfilled by Art History counted in major

Liberal Studies electives: [AH206](#), no courses with AR elective

Major:

Foundation required: **15**

AR100	Arts of the 20th Century	3sh
AR111	Figure Drawing	3sh
AR112	Fundamentals of Drawing and Design	3sh
AR113	Three-Dimension Design	3sh
AR114	Color and Two-Dimensional Design	3sh

Foundation electives:

(Select 5 of the following 8 courses) **15**

AR211	Painting	3sh
AR213	Wood/Furniture Design	3sh
AR214	Ceramics	3sh
AR215	Sculpture	3sh
AR216	Basic Metal Techniques	3sh
AR217	Printmaking	3sh
AR218	Graphic Design	3sh
AR219	Fibers	3sh

Art History required: **9**

AH205	Ancient to Medieval Art	3sh (1)
AH206	Renaissance to Baroque Art	3sh (2)
AH211	Modern Art	3sh (3)
AH413	Senior Seminar	3sh

Advanced Studio required: (4)	27
Primary Advanced Studio Concentration	
Minor Advanced Studio Concentration	18sh
Courses from list: AR421 , AR451 , AR452 , AR453 , AR454 , AR455 , AR457 , AR459 , AR460 , AR481 , AR493 (5)	
Free electives:	6-8
(#) Total Degree Requirements:	125-127

- (1) Credits counted in Liberal Studies Fine Arts requirement.
- (2) Credits counted under Liberal Studies electives.
- (3) [AH222](#) may be substituted for [AH211](#).
- (4) The foundation-level course must be successfully completed before a student will be permitted to enroll in the six-credit component of that specific studio course. Permission of the instructor is a prerequisite to all six-credit advanced studios.
- (5) Inclusion of internship credits toward any portion of fulfillment of degree requirements must be approved by the departmental chair and student's major advisor. Approval must be obtained in writing prior to enrollment.
- (#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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The College of Fine Arts

Bachelor of Science in Education-Art Education (*)

Liberal Studies: As outlined in Liberal Studies section **50-52**

with the following specifications:

Fine Arts: Fulfilled by Art History counted in major.

Social Science: [PC101](#)

Liberal Studies electives: [AH206](#), no courses with AR prefix

College:

Professional Education sequence: (1) **24**

CM301	Technology for Learning and Instruction	3sh
ED421	Student Teaching Elementary	6sh
ED441	Student Teaching Secondary	6sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED442	School Law	1sh
EP202	Educational Psychology	3sh
FE202	American Education in Theory and Practice	3sh

Major:

Foundation required: **15**

AR100	Arts of the 20th Century	3sh
AR111	Figure Drawing	3sh
AR112	Fundamentals of Drawing and Design	3sh
AR113	Three-Dimension Design	3sh
AR114	Color and Two-Dimensional Design	3sh

Foundation electives:

(Select 5 of the following 8 courses) **15**

AR211	Painting	3sh
AR213	Wood/Furniture Design	3sh
AR214	Ceramics	3sh

AR215	Sculpture	3sh
AR216	Basic Metal Techniques	3sh
AR217	Printmaking	3sh
AR218	Graphic Design	3sh
AR219	Fibers	3sh

Art Education required: 9

AE315	Survey in Art Education	3sh
AE317	Art Education Methodology: Elementary	3sh
AE318	Art Education Methodology: Secondary	3sh

Art History required: 9

AH205	Ancient to Medieval Art	3sh (2)
AH206	Renaissance to Baroque Art	*sh (3)
AH211	Modern Art	3sh (4)
AH413	Senior Seminar	3sh

Controlled electives: 12

Additional courses from lists: (5)

Advanced Studio: [AR421](#), [AR451](#), [AR452](#), [AR453](#),
[AR454](#), [AR455](#), [AR457](#), [AR459](#), [AR460](#)

Advanced Art History: [AH219](#), [AH222](#), [AH406](#),
[AH408](#), [AH409](#), [AH412](#), [AH416](#), [AH424](#), [AH426](#)

Art Education elective: [AE330](#)

Free Electives: 0

(#) Total Degree Requirements: 134-136

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#)(2sh).

(2) Credits counted in Liberal Studies Fine Arts requirement.

(3) Credits counted under Liberal Studies electives.

(4) [AH222](#) may be substituted for [AH211](#).

(5) Courses can only be taken following successful completion of the foundation prerequisite course.

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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The College of Fine Arts

Department of Music

John F. Scandrett, Chairperson; Adams, Bird, Borst, Casavant, Chepaitis, Dearing, Dickinson, Dietz, Fry, Godt, Intili, Kauffman, Kuehn, Lloyd, Luchsinger, Mantel, McBride, Olmstead, Perlongo, Radell, Sartori, Stamp, Staples, Teti, Thorell, Wheatley, Wilson, Wulfhorst; and professors emeriti Becker, DiCicco, Malitsky, Perkins, Vansteenikist

The Department of Music has a threefold mission: (1) professional preparation of music educators and performers, (2) liberal studies for the university, and (3) programs of music for the community. Degrees offered include the Bachelor of Arts, Bachelor of Fine Arts, and Bachelor of Science in Education.

Admission to the Music Department requires satisfactory completion of an audition in addition to the university general requirements. Detailed information will be sent to the applicant upon request.

A student wishing to minor in music must elect a minimum of 15 semester hours in music courses as approved by the department chairperson. The program leading to the Bachelor of Arts in music has been designed to give the student a general experience in music. The student seeking this degree has the choice of four tracks: Music History/Literature, Music Theory/Composition, Performance, or Jazz Studies.

The program leading to the Bachelor of Fine Arts in Music (equivalent to the Bachelor of Music Degree) is a special program with a major in one of twenty-one areas of performance. The student in this program prepares to pursue a career as a professional performing musician.

The program leading to the Bachelor of Science in Education with a music major leads to certification to teach in the schools of Pennsylvania.

Special Requirements

1. Each student must declare a primary performing medium. Those who elect voice as their primary instrument normally elect piano as a secondary instrument; those who elect piano as their primary instrument normally elect voice as their secondary instrument. Performance juries are held at the end of each semester. Students are expected to complete the requirements for their performing area and level. Piano proficiency is required in all degree programs.
2. Ensemble participation of 5 hours a week is required each semester. Students may fulfill this departmental requirement by participation in either one-credit or zero-credit ensemble(s). In meeting the degree requirements of 7-8 semester hours of ensemble credit, enrollment in credit-bearing ensembles is flexible across semesters.
3. Students must register for [MU475](#) (Music Lab) and attend (1) all department and area recitals and (2) eight campus recitals and concerts each semester.

The College of Fine Arts

Bachelor of Arts-Music/History and Literature Track

Liberal Studies: As outlined in Liberal Studies section **53-55**

with the following specifications:

Mathematics: [MA101](#) recommended

Fine Arts: [MH101](#)

Liberal Studies electives: [HI305](#), no courses with MH prefix

Major: **41**

Required courses:

MU111	Theory Skills I	2sh
MU112	Theory Skills II	2sh
MU115	Theory I	3sh
MU116	Theory II	3sh
MU211	Theory Skills III	2sh
MU212	Theory Skills IV	2sh
MU215	Theory III	3sh
MU216	Theory IV	3sh
MH301	Music History I	3sh
MH302	Music History II	3sh

Controlled electives: **15sh**

Five courses from this list:

[MH320](#), [MH321](#), [MH322](#), [MH323](#), [MH324](#),
[MH325](#), [MH326](#), [MH420](#), [MH421](#)

Other Requirements: **15**

Music Ensembles ([MU120-MU136](#)) **8sh**

Music Electives **7sh**

Jury Clearance in piano C **0sh**

Attendance at 8 recitals per semester

([MU475](#), S grade, 8 semesters) **0sh**

Free Electives: 13-15

Total Degree Requirements: 124

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The College of Fine Arts

Bachelor of Arts-Music/Music Performance Track

Liberal Studies: As outlined in Liberal Studies section **53-55**

with the following specifications:

Mathematics: [MA101](#) recommended

Fine Arts: [MH101](#)

Liberal Studies electives: [HI305](#), [MH301](#), no courses with MU prefix

Major: **42**

Required courses:

MU111	Theory Skills I	2sh
MU112	Theory Skills II	2sh
MU115	Theory I	3sh
MU116	Theory II	3sh
MU211	Theory Skills III	2sh
MU212	Theory Skills IV	2sh
MU215	Theory III	3sh
MU216	Theory IV	3sh

Controlled electives:

Applied Music I thru VIII: private lessons in
performance area-2sh each of eight semesters **16sh**

Major related:

MH103	Perspectives in Jazz	3sh
MH302	Music History II	3sh

Other Requirements: **14**

Music ensembles (MU120-MU136)	8sh
Music electives, with adviser approval	6sh
Jury clearance in major instrument, minor instrument (if any), and piano (if not major or minor instrument)	0sh

Attendance at 8 recitals per semester

([MU475](#), S grade, 8 semesters)

0sh

Free Electives:

13-15

Total Degree Requirements:

124

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:24 AM on 7/25/97

The College of Fine Arts

Bachelor of Arts-Music/Theory and Composition Track

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Mathematics: [MA101](#) recommended

Fine Arts: [MH101](#)

Liberal Studies electives: [HI305](#), [MH301](#), no courses with MU prefix

Major: 54

Required courses:

MU111	Theory Skills I	2sh
MU112	Theory Skills II	2sh
MU115	Theory I	3sh
MU116	Theory II	3sh
MU211	Theory Skills III	2sh
MU212	Theory Skills IV	2sh
MU215	Theory III	3sh
MU216	Theory IV	3sh
MU217	Keyboard Harmony I	1sh
MU218	Keyboard Harmony II	1sh
MU306	Counterpoint I	2sh
MU315	Theory V	3sh
MU411	Composition I	2sh
MU412	Composition II	2sh
MU413	Composition III	2sh
MU414	Composition IV	2sh

Controlled electives:

One from list: [MU304](#), [MU307](#), [MU309](#) 2sh

Applied Music I-VII: Private lessons in performance
area-2sh each of seven semesters 14sh

Major related:

[MH302](#) Music History II 3sh

Other Requirements: 8

Music ensembles ([MU120](#)-[MU136](#)) 8sh

Jury clearance in major instrument, minor instrument
(if any), and piano B 0sh

Attendance at 8 recitals per semester
([MU475](#), S grade, 8 semesters) 0sh

Free Electives: 7-9

Total Degree Requirements: 124

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:25 AM on 7/25/97

The College of Fine Arts

Bachelor of Fine Arts-Music Performance

Liberal Studies: As outlined in Liberal Studies section **53-55**

with the following specifications:

Mathematics: [MA101](#) recommended

Fine Arts: [MH101](#)

Liberal Studies electives: [HI305](#), [MH301](#), no courses with MU prefix

Major: **55**

Required courses:

MU111	Theory Skills I	2sh
MU112	Theory Skills II	2sh
MU115	Theory I	3sh
MU116	Theory II	3sh
MU211	Theory Skills III	2sh
MU212	Theory Skills IV	2sh
MU215	Theory III	3sh
MU216	Theory IV	3sh

Controlled electives:

Applied Music I thru VIII: private lessons in performance area-4 sh each of 8 semesters **32sh**

Major related:

[MH302](#) Music History II **3sh**

Other Requirements: **20**

Music ensembles (MU120-136) **8sh**

Music electives **12sh (1)**

Jury clearance in major instrument, minor instrument (if any), and piano C (unless major or minor) **0sh**

Attendance at 8 recitals per semester ([MU475](#), S grade, 8 semesters) **0sh**

Junior and Senior Recitals

0sh

Free Electives:

0

(#) Total Degree Requirements:

128-130

(1) Majors with piano or organ performance specialization must elect [MU217](#) and [MU218](#): Keyboard Harmony I and II, 1sh each.

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:28 AM on 7/25/97

The College of Fine Arts

Bachelor of Science in Education-Music Education (*)

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Mathematics: [MA101](#) recommended

Fine Arts: [MH101](#)

Social Science: [PC101](#)

Liberal Studies electives: [HI305](#), [MH301](#), no courses with MU prefix

College: 30

Professional Education sequence: (1)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED421	Student Teaching Elementary Level	6sh
ED441	Student Teaching Secondary Level	6sh
ED442	School Law	1sh
EP202	Educational Psychology	3sh
FE202	American Education in Theory and Practice	3sh
MU331	Elementary Methods	3sh
MU333	Secondary Methods	3sh

Major: 49

Required courses:

MU111	Theory Skills I	2sh
MU112	Theory Skills II	2sh
MU115	Theory I	3sh
MU116	Theory II	3sh
MU211	Theory Skills III	2sh
MU212	Theory Skills IV	2sh
MU215	Theory III	3sh
MU216	Theory IV	3sh

MU151 -152	Class Voice I and II	2sh (2)
MU153 -154	Class Piano I and II	2sh (3)
MU155	Class Strings I	1sh
MU157	Class Percussion I	1sh
MU159	Class Brass I	1sh
MU161	Class Woodwinds I	1sh
MU311	Fundamentals of Conducting	2sh

Controlled electives:

One from list: [MU312](#) or [MU313](#) 2sh

Applied Music I thru VII:private lesson in performance
area-2sh each of seven semesters 14sh

Major related:

[MH302](#) Music History II 3sh

Other Requirements: 7

Music Ensembles ([MU120](#)-[MU136](#)) 7sh

Jury clearance in major instrument, minor instrument
(if any) and piano C (unless major or minor) 0sh

Attendance at 8 recitals per semester
([MU475](#), S grade, 7 semesters) 0sh

Free Electives: 0

(#) Total Degree Requirements: 139-141

(* See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

(2) For majors with voice as performance specialization, any three of the following may be substituted:
[MU351](#),[MU353](#),[MU354](#),[MU406](#)

(3) Private Piano I and II ([AM101](#),[AM151](#)) may be substituted.

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:30 AM on 7/25/97

The College of Fine Arts

Department of Theater

Annie-Laurie Wheat, Chairperson; Ault, Blackledge, Boda, Bowes, Jones, Lommock, McCreary, Simpson; and professors emeriti Eisen, Ensley

The Department of Theater is dedicated to theater as a collaborative and highly disciplined fine art that demands a broad-based education and offers a wide view of the world as a part of a liberal and humanistic education. Students wishing to share in this will find the Department of Theater committed to the following:

1. providing comprehensive coursework from introductory through advanced levels of study, in all major areas of theater
2. providing production opportunities to develop and enhance expertise, as well as stimulate artistic and intellectual growth of both the students and the faculty
3. augmenting and complementing the aesthetic offerings of the university community

The Department of Theater offers a Bachelor of Arts degree as well as minors in both theater and dance. The department offers courses in theater history, drama, and criticism as well as basic and advanced coursework in acting, dance/movement, voice, directing, design, and technical theater. A minor in theater consists of 15 semester hours in coursework approved by the chairperson of the Department of Theater. The requirements for the minor in dance are outlined elsewhere.

As a practical extension of the academic program, the Department of Theater offers a variety of production opportunities in the Theater-by-the-Grove Mainstage and Studio theaters. The IUP Dance Theater performs twice annually, and the department has a professional theater company, Summer Theater-by-the-Grove, to offer students summer options.

Admission to the Department of Theater requires satisfactory completion of an audition or interview, in addition to the university's general admission requirements. Detailed information will be sent to applicants upon request.

The Department of Theater is an accredited institutional member of the National Association of Schools of Theater (NAST).

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:32 AM on 7/25/97

The College of Fine Arts

Bachelor of Arts-Theater

Liberal Studies: As outlined in Liberal Studies section **53-55**

with the following specifications:

Fine Arts: [AH101](#), [MH101](#), or [TH102](#)

Liberal Studies electives: no courses with TH prefix

Major: **36**

Required courses:

TH110	Script Analysis	3sh
TH116	Fundamentals of Theatrical Design	3sh
TH201	Theater History I	3sh
TH202	Theater History II	3sh
TH301 /302	Tragic Mask or Comic Mask	3sh
TH310	Theater Criticism	3sh

Any three of the following:

TH120	Stagecraft I	3sh
TH122	Costume Workshop	3sh
TH221	Basic Lighting	3sh
TH223	Makeup	3sh

Any three of the following:

TH130	Stage Voice	3sh
TH131 /150	Stage Movement or Fundamentals of Dance	3sh
TH240	Acting I	3sh
TH350	Directing	3sh

Other Requirements: **4**

TH486	Practicum for Production	
(minimum of six semesters)		4sh

Free Electives:

29-31

Total Degree Requirements:

124

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The College of Fine Arts

Dance Minor (1)

The Dance Minor program provides a foundation for those interested in teaching dance, working with a dance company, managing a private dance studio, working with theater productions, or desiring a broad-based education within the dance discipline.

The Dance Minor is an eighteen-credit program with nine required credits and nine elective credits. The required credits include the pertinent foundation courses and higher-level theory courses. The required courses also provide design elements of production, fundamental and historical theories of dance, and dance choreographic and teaching theories that cannot be obtained in any of the elective courses. The elective credits include the technique courses.

The Dance Minor is based on the National Standards for Arts Education dance requirements. Using this basis for the program ensures fundamental preparation for a number of student needs, for example: the dance teacher, the performer, and/or the dance studio owner.

The program is also designed to fulfill the needs of a Liberal Arts minor in dance. Through advisement, the minor program can serve the individual student's needs. The program would be of interest to secondary elementary, elementary education majors, small business majors, recreation and physical education majors, and anyone else who has an interest in dance and wants to broaden his or her Liberal Arts education.

Required Courses: **9**

[TH116](#) Fundamentals of Theatrical Design 3sh

One of the following:

[TH102](#) Introduction to Dance 3sh

[TH150](#) Fundamentals of Dance 3sh

One of the following:

[TH351](#) Choreography 3sh

[TH353](#) Dance Curriculum and Instruction 3sh

Any three of the following as advised: **9**

[TH150](#) Fundamentals of Dance 3sh

[TH250](#) Contemporary Dance 3sh

[TH260](#) Jazz Dance 3sh

[TH270](#) Ballroom/Tap Dance 3sh

[TH280](#) Ballet 3sh

TH290	Ethnic Dance	3sh
TH485	Dance Studio	3sh

Total credits: 18

(@)To be implemented in 1996-97, pending Council of Trustees approval.

(1)The Dance Minor consists of eighteen credits. Fundamentals of Dance cannot be counted twice.

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The College of Health and Human Services

The College of Health and Human Services is composed of seven academic departments: Food and Nutrition; Health and Physical Education; Hotel, Restaurant, and Institutional Management; Human Development and Environmental Studies; Industrial and Labor Relations; Nursing and Allied Health Professions; and Safety Sciences. Each department provides theoretical, laboratory, and practical experiences for students and prepares them for selected careers.

Faculty members of the college hold advanced academic degrees in their area of expertise. They have extensive experience as teachers and advisors and have had experience working in a variety of career fields.

Students can study in the following academic areas: Child Development/Family Relations, Community Services, Consumer Affairs, Dietetics, Family and Consumer Sciences Education, Fashion Merchandising, Food and Nutrition Science, Food Service Management, Health and Physical Education, Hotel Management, Industrial and Labor Relations (graduate program only), Interior Design/Housing, Medical Technology, Nuclear Medicine Technology, Nursing, Physical Education and Sport Science, Respiratory Care, and Safety Sciences.

College goals are designed to emphasize the areas of human development and family relations; positive health in growth and development through nutritional, physical, and emotional fitness; prevention of illness; restoration of optimal health after illness; occupational safety and health; teacher education; consumerism; commercial and residential design; merchandising and buying of apparel and home furnishings; management within the hospitality industry; and labor relations in the public sector.

Courses in natural sciences are required of all undergraduate academic majors, and students are encouraged to become involved in research activities and computer utilization.

The college offers a variety of opportunities to extend the students' educational experience through honorary and service organizations; field organizations; and sports and recreational activities. Employment opportunities for graduates of the college are excellent.

College Majors

Child Development/Family Relations
Consumer Affairs
Consumer Services/Community Services Track
Dietetics
Family and Consumer Sciences Education
Fashion Merchandising
Food and Nutrition Science
Health and Physical Education
Hotel, Restaurant, and Institutional Management
Industrial and Labor Relations (graduate program only)
Interior Design/Housing
Medical Technology
Nuclear Medicine Technology
Nursing
Physical Education and Sport
Respiratory Care

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The College of Health and Human Services

Department of Food and Nutrition

Joanne B. Steiner, Chairperson; Barker, Cessna, Dahlheimer, Johnson; and professor emerita Minnick

The Food and Nutrition Department offers degree programs in dietetics and food and nutrition science. These curricula prepare students as professionals for a diversity of career opportunities in health care, food service, the food industry, and food and nutrition research.

In addition, the department provides Liberal Studies courses which are available to all university students. These include [FN143](#), an option in the university's Liberal Studies requirements for Health and Wellness; [FN145](#), a Liberal Studies elective; and [LS499](#): Human Food Consumption Patterns, a synthesis course.

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The College of Health and Human Services

Dietetics

The dietetics program meets the didactic academic requirements approved by the American Dietetic Association. This program will prepare an individual to serve as translator of food and nutrition science information for members of the larger community with respect to healthful food preparation, healthy eating behaviors, medical nutrition therapy, management of nutrition delivery and food service systems, and advocacy for the profession of dietetics. The individual who completes this program will exhibit in-depth knowledge of food, nutrition, behavioral sciences, and management theory. The student will also have the ability to apply these theories at an intermediate level and will develop the ability to problem solve at an entry level using synthetic thinking.

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The College of Health and Human Services

Bachelor of Science-Dietetics

Liberal Studies: As outlined in Liberal Studies section **54-55**

with the following specifications:

Mathematics: [MA217](#)

Natural Science: [CH101-CH102](#)

Social Science: [EC101](#), [PC101](#), [SO151](#)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#); [HE218](#) or [PC310](#),

no courses with FN prefix

Major: **39**

Required courses:

FN110	Careers in Food and Nutrition	1sh
FN150	Foods	3sh
FN151	Foods Laboratory	1sh
FN212	Nutrition	3sh
FN213	Life Cycle Nutrition	3sh
FN355	Nutrition in Disease I	3sh
FN362	Experimental Foods	3sh
FN364	Methods of Teaching	3sh
FN402	Community Nutrition	3sh
FN430	Professional Topics in Food and Nutrition	3sh
FN455	Nutrition in Disease II	3sh
FN458	Advanced Human Nutrition	3sh
FN463	Nutrition Counseling	3sh
FN470	Human Food Consumption Patterns	3sh
FN484	Senior Seminar	1sh

Other Requirements:

Food Service Requirements: **13**

HR259	Hospitality Purchasing	3sh
HR313	Food Systems I	4sh

HR356	Human Resources in Hospitality Management	3sh
HR408	Institutions Management	3sh
Additional Sciences:		13
BI105	Cell Biology	3sh
BI155	Human Physiology and Anatomy	4sh
BI232	Fundamentals of Microbiology	3sh
CH255	Biochemistry and Nutrition	3sh
Free Electives (minimum):		4-5
Total Degree Requirements:		124

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The College of Health and Human Services

Food and Nutrition Science

Food and Nutrition Science provides a student with a background in the basic sciences that gives a solid foundation for theoretical and applied food science and nutrition. Emphasis is placed on laboratory work in nutrition and food composition. The program meets the needs of students motivated in the biological-physical sciences who wish, with graduate education, to enter careers in food/nutrition research, nutrition service professions, medical science, and education.

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The College of Health and Human Services

Bachelor of Science-Food and Nutrition Science

Liberal Studies: As outlined in Liberal Studies section 55-56

with the following specifications:

Mathematics: [MA121](#)

Natural Science: [CH111-CH112](#)

Social Science: [EC101](#), [PC101](#), [SO151](#)

Liberal Studies electives: [MA217](#), no courses with FN prefix

College: 6

Human Ecology requirements:

One course from list: [HE218](#) or [HE224](#) 3sh

One course from list: [CS213](#), [CS315](#), or [CS101](#) 3sh

Major: 32

Required courses:

[FN150](#) Foods 3sh

[FN151](#) Foods Laboratory 1sh

[FN212](#) Nutrition 3sh

[FN213](#) Life Cycle Nutrition 3sh

[FN362](#) Experimental Foods 3sh

[FN458](#) Advanced Human Nutrition 3sh

[FN462](#) Advanced Experimental Foods 3sh

[FN464](#) Food and Nutrition Research Methods 3sh

[FN470](#) Human Food Consumption Patterns 3sh

[FN484](#) Senior Seminar 1sh

Controlled electives:

Three courses from list: 9sh

[FN213](#), [FN355](#) (1), [FN444](#), [FN447](#), [FN455](#) (1), [FN482](#)

Other Requirements: 22

Science sequence:

BI150	Human Anatomy	3sh (2)
BI151	Human Physiology	4sh (2)
BI232	Fundamentals of Microbiology	3sh (2)
CH231	Organic Chemistry I	4sh
CH351	Biochemistry	4sh
PY111	Physics I Lecture	3sh
PY121	Physics I Lab	1sh

Free Electives: (3) **8-9**

Total Degree Requirements: **124**

- (1) [FN355](#) and [FN455](#) must be completed as a sequence, if elected.
- (2) Alternate Biology sequence recommended for graduate study preparation: [BI105](#), [BI151](#), [BI361](#).
- (3) To meet American Dietetic Association requirements: [FN110](#), [FN213](#), [FN355](#), [FN364](#), [FN402](#), [FN430](#), [FN455](#), [FN463](#), [HR259](#), [HR313](#), [HR356](#), [HR358](#), [HR408](#) (38sh total).

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The College of Health and Human Services

Nutrition Minor

This minor sequence is recommended for students majoring in the related health disciplines such as child development, family and consumer sciences education, nursing and allied health, food service management, and health and physical education. Students electing a minor in nutrition must complete 15 credit hours of coursework from the courses listed below. Students must note that the completion of this minor neither meets the requirements for practice as a credentialed nutritionist nor satisfies the academic requirements of the American Dietetic Association for a registered dietitian. For additional information about these careers, contact the Food and Nutrition Department.

Nutrition Minor **15**

FN212	Nutrition	3sh
FN213	Life Cycle Nutrition	3sh
FN245	Sports Nutrition	3sh (1)
FN355	Nutrition in Disease I	3sh
FN470	Human Food Consumption Patterns <i>or</i>	3sh
FN357	Special Problems in Foods	3sh

(1) Students not interested in FN245 could select both FN402 and FN470 in place of FN245.

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The College of Health and Human Services

Department of Health and Physical Education

James G. Mill, Chairperson; Black, Blacksmith, Blair, Celtnieks, Clark, Cortazzo, Diccico, Grove, Hornfeck, Klingaman, Liscinsky, Montgomery, Moore, Paternostro-Bayles, Sloniger, Sutton, Trenney; and professors emeriti Aierstock, Beck, Dakak, Davis, Dickie, Godlasky, Neal, Sledzik, Tucker

The Department of Health and Physical Education provides the following services:

1. instruction in health and wellness courses as part of the university's Liberal Studies requirement
2. instruction in health and physical education courses as Physical Education course electives
3. an undergraduate major in health and physical education that leads to the Bachelor of Science degree in Education with potential certification to teach in the Commonwealth of Pennsylvania
4. Bachelor of Science degree in Physical Education and Sport
5. endorsement program in Driver Education - Safe Living

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The College of Health and Human Services

Required Program-Liberal Studies

The Department of Health and Physical Education through its Health and Wellness course in the Liberal Studies program seeks to enhance the overall well-being of students through instruction planned to promote and maintain desirable levels of physical, mental, emotional, and social well-being. Self-responsibility in the following dimensions of wellness is emphasized: nutritional awareness, stress awareness and management, exercise and fitness, substance use and abuse, and sexually transmitted diseases/AIDS. The importance of reducing risk factors for chronic degenerative disease and managing lifestyle factors for promotion of health is presented with implication for both the present and future. Information is provided during class lectures and enhanced by a variety of practical learning experiences which give students opportunities for self-assessment and personal application of the subject matter.

In addition, the department offers a variety of one-credit activity courses focusing on physical fitness and the development of skills essential for recreation and lifetime sports. Instruction is offered in many activities including aerobic dance, archery, badminton, bowling, fencing, golf, resistive exercise, scuba, swimming, tennis, volleyball, and others.

The university's Liberal Studies requirements, in effect since fall, 1989, require that each student successfully complete [HP143](#) or its alternate, [FN143](#). Students may also elect to take 4 semester hours of the ROTC program ([MS101-MS102](#)) as an alternate to the wellness courses. Activity courses will continue to be offered, although they are no longer required. It is encouraged and recommended that students choose these courses as elective credits.

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The College of Health and Human Services

Bachelor of Science Degree (Physical Education and Sport)

The Bachelor of Science Degree in Physical Education and Sport provides greater emphasis on subject matter/content and less on pedagogy. Students who select this emphasis area generally apply their knowledge in fields of exercise science, community and corporate fitness, cardiac rehabilitation, pre-physical therapy, and/or executive fitness programming. Requirements for the degree in Physical Education and Sport include:

1. the university's Liberal Studies requirements;
2. 31 credit hours in the HPE Core; and
3. nineteen credits from the Physical Education and Sport requirements.

In addition, the Department of Health and Physical Education has developed two programs approved by the National YMCA Physical Education Office to provide for the professional preparation of YMCA aquatic directors and physical directors. Both programs emphasize high standards and are vitally concerned with the major objectives of YMCA physical education. Specialized "Y" courses are offered through the IUP Aquatic School, through the annual Middle Atlantic Region Aquatic Institute held at IUP each spring, and through other special YMCA programs conducted on the IUP campus and sponsored in cooperation with the Middle Atlantic Region Physical Education Program.

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The College of Health and Human Services

Bachelor of Science-Physical Education and Sport

Liberal Studies: As outlined in Liberal Studies section **54**

with the following specifications:

Mathematics: [MA101](#) or [MA110](#) or [MA217](#)

Health and Wellness: [FN143](#) or [MS101-MS102](#)

Natural Science: [BI103-BI104](#) or [CH101-CH102](#)

Social Science: [PC101](#), [SO151](#)

Liberal Studies Electives: [FN145](#), [BE101/CO101/IM101](#),

no courses with HP prefix

Major:

Core requirements: **31**

HP142	Foundations of Health and Physical Education	3sh
HP200	Fundamentals of Physical Activity	1sh
HP210	Motor Development	2sh
HP221	Human Structure and Function	3sh
HP246	Biomechanics	3sh
HP251	Foundations of Safety and Emergency Health Care	3sh
HP263	Aquatics	1sh
HP341	Evaluation in Health and Physical Education	3sh
HP343	Physiology of Exercise	3sh
HP344	Adapted Physical Education	3sh
HP441	Psychosocial Implications for Health and Physical Education	3sh
HP442	Seminar in Health, Physical Education, and Recreation I	3sh

Professional requirements: **17**

HP319	Preprofessional Experience II	1sh
HP345	Athletic Training I	3sh
HP346	Athletic Training Lab I	1sh

HP375	Physiological Basis of Strength Training	3sh
HP410	Exercise Prescription	3sh
HP411	Physical Fitness/Appraisal Guidance	3sh
HP412	Physical Activity and Stress Management	3sh
Controlled electives: (1)		6-12
HP408	Guided Research	2sh
HP413	Physical Activity and Aging	3sh
HP426	Health Science Instruction	3sh
HP482	Independent Study	3sh
HP493	Internship	6-12sh
BI151	Human Physiology	4sh
BI155	Human Physiology and Anatomy	4sh
Other Requirements:		0
Free Electives:		10-16
Total Degree Requirements:		124

(1) Nutrition minor may substitute for Controlled Electives; see Department of Food and Nutrition.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 2:21 PM on 7/25/97

The College of Health and Human Services

Bachelor of Science in Education (Health and Physical Education)

Requirements for the degree of Bachelor of Science in Education with a major in Health and Physical Education include the university's Liberal Studies requirements, Professional Education requirements, and the Health and Physical Education core requirement. Upon completion of the degree program and successfully passing the National Teachers Exam, the student is qualified for an Instructional I Certificate in Health and Physical Education, issued by the Pennsylvania Department of Education in Harrisburg. This certificate is valid for teaching health and physical education in grades K through 12 for three years in the public schools of Pennsylvania. All students seeking Pennsylvania certification must follow the four-step process described in the section "Admission to Teacher Education and Certification" found in the Academic Policies section of the catalog.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 2:21 PM on 7/25/97

The College of Health and Human Services

Bachelor of Science in Education-Health and Physical Education (*)

Liberal Studies: As outlined in Liberal Studies section **54**

with the following specifications:

Mathematics: [MA101](#) or [MA110](#) or [MA217](#)

Health and Wellness: [FN143](#) or [MS101-MS102](#)

Natural Science: [BI103-BI104](#) or [CH101-CH102](#)

Social Science: [PC101](#), [SO151](#)

Liberal Studies electives: [FN145](#), [PC378](#),

or approved alternatives

Major:

Course requirements: **31**

HP142	Foundations of Health, Physical Education, and Sport	3sh
HP200	Fundamentals of Physical Activity	1sh
HP210	Motor Development	2sh
HP221	Human Structure and Function	3sh
HP246	Biomechanics	3sh
HP251	Foundations of Safety and Emergency Health Care	3sh
HP263	Aquatics	1sh
HP341	Evaluation in Health and Physical Education	3sh
HP343	Physiology of Exercise	3sh
HP344	Adapted Physical Education	3sh
HP441	Psychosocial Implications for Health and Physical Education	3sh
HP442	Seminar in Health, Physical Education, and Recreation I	3sh

Professional requirements Health and Physical Education: **22**

HP211	Dance, Rhythmic Activities, and Gymnastics	3sh
HP212	Team Sports	3sh

HP213	Individual, Dual Sports, and Adventure Activities	3sh
HP318	Preprofessional Experience I	1sh
HP321	Methods for Elementary Health and Physical Education	3sh
HP325	School and Community Health	3sh
HP426	Health Science Instruction	3sh
HP450	Curriculum in Human Sexuality	3sh
Professional Education requirements: (1)		24
CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED421	Student Teaching	6sh
ED441	Student Teaching	6sh
ED442	School Law	1sh
EP202	Educational Psychology	3sh
FE202	American Education in Theory and Practice	3sh
Other Requirements:		0
Free Electives:		0
(#)Total Degree Requirements:		131

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 2:26 PM on 7/25/97

The College of Health and Human Services

Health and Physical Education Core

The Health and Physical Education curriculum identifies a required core of studies which emphasizes a body of knowledge relevant to the study of professional health and physical education, as well as the study of physical education and sport. Courses contained in the core are those which are intended to teach students to identify and solve problems by applying relevant knowledge and also to engage in self-directed learning.

Candidates for the degree program in Health and Physical Education must demonstrate acceptable cognitive and psychomotor qualifications as well as desirable character and personality traits. The professional program seeks to foster those qualities of individual character and competence that are inherent in personal and professional maturity. These competencies are evaluated at the end of the sophomore year. The student is either granted Advanced Standing in the department or restricted in scheduling advanced courses for not less than one probationary semester. Continuation in the major program is based upon attainment of department Advanced Standing.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 2:22 PM on 7/25/97

The College of Health and Human Services

Driver Education-Safe Living 7-12

Candidates for the driver education certification must possess, or be a candidate for, a valid Pennsylvania certificate in any area of certification. A student must currently complete the following four courses [HP251](#), [HP252](#), [HP353](#), and [HP354](#). Students must request the certificate in driver education-safe living 7-12 when they apply for graduation. For students who have already graduated, contact the office of the Dean, College of Education, for correct procedure.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 2:23 PM on 7/25/97

The College of Health and Human Services

Certification-Driver Education-Safe Living

Certification in Driver Education-Safe Living may be added to a valid Pennsylvania Instructional Certificate with the completion of the following courses:

HP251	Accident Causation and Prevention	3sh
HP252	Introduction to the Driving Task	3sh
HP353	Driving Education Program Management	3sh
HP354	Application of Driver Ed. Instructional Modes	3sh

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 2:27 PM on 7/25/97

The College of Health and Human Services

Aquatics School Course Offerings

Each summer the department offers the annual Aquatics School for eight consecutive days. Students must be seventeen years of age or older and possess the necessary aquatic prerequisites. A fee will be charged which will include room, three meals a day, use of equipment, accident insurance, transportation to and from the lake, and special one-night programs. Certification will be granted by the American Red Cross, National YMCA, Professional Association of Diving Instructors, and the American Heart Association upon completion of courses. All courses may be taken for college credit, if the student is eligible and pays the additional tuition fee. For more information, contact the aquatic director. Courses offered exclusively as a part of the Aquatics School are [HP267](#), [HP268](#), [HP269](#), [HP270](#), [HP271](#), [HP272](#), [HP273](#), [HP274](#), [HP276](#), [HP277](#), [HP279](#), and [HP280](#). Courses offered during the academic year as well as in summer school include [HP242](#), [HP261](#), [HP265](#), and [HP266](#).

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 2:24 PM on 7/25/97

The College of Health and Human Services

Department of Hotel, Restaurant, and Institutional Management

Jeffrey A. Miller, Chairperson; Baker, Cauffiel, Marshall, Shiring, Van Dyke; and professors emeriti Simkins, Woods

The department offers students an academic preparation leading to a Bachelor of Science degree in Hotel, Restaurant, and Institutional Management. Students take general courses in business, chemistry, biology, computer literacy, and foreign language. Students elect to concentrate in either food service management or lodging management. The program has received accreditation from the Accreditation Commission for Programs in Hospitality Administration.

The food service management track prepares men and women for management positions in restaurants, corporate food services, entertainment or recreation food service, health care, or other institutional and contract food service.

The lodging management track prepares women and men for management positions within hotels, resorts, and other lodging operations. Emphasis is on the study of housekeeping, rooms, and sales departments but also includes food production and service.

Both programs require the student to complete 880 hours of hospitality industry work experience before graduation. The first 440 hours are completed during the freshman and sophomore years in any type of hospitality position selected by the student and must be completed before the internship is scheduled. The second 440 hours are completed as an internship. The internship is supervised by a faculty member who assists the student in developing the learning package to be achieved during the internship and who advises the intern on university, department, and site requirements.

Professional-type uniforms are prescribed as part of the dress code for departmental majors in all food production courses.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 2:42 PM on 7/25/97

The College of Health and Human Services

Bachelor of Science-Hotel, Restaurant, and Institutional Management

Liberal Studies: As outlined in Liberal Studies section 54-55

with the following specifications:

Mathematics: [MA217](#)

Natural Science: [CH101-CH102](#)

Social Science: [EC121](#), [PC101](#)

Liberal Studies electives: CO/IM/[BE101](#), [FN145](#),

no course with an HR prefix

Major:

Required courses: 33

HR101	Introduction to Hospitality Management	3sh
FN150	Foods	3sh
FN151	Foods Lab	1sh
HR259	Hospitality Purchasing	3sh
HR313	Food Systems I	4sh
HR356	Human Resources in the Hospitality Industry	3sh
HR401	Cost Management	3sh
HR411	Seminar in Hospitality Management	3sh
HR413	Food Systems II	3sh
HR493	Internship	6sh (1)

Controlled electives: One track required 12-15

Food Service Management Track:

FN145	Introduction to Nutrition	*sh (2)
HR306	Food and Beverage Management	3sh
HR358	Food Service Equipment and Facilities Design	3sh
HR406	Catering and Banquet Management	3sh
HR408	Institutions Management	3sh

Lodging Management Track:

HR115	Introduction to Tourism	3sh
HR360	Hotel Systems Management	3sh
HR365	Hotel Design and Maintenance	3sh
HR420	Hotel Sales and Services	3sh
IM300	Information Systems: Theory and Practice	3sh

Other Requirements: **15-21**

AG201	Accounting Principles I	3sh
BI232	Fundamentals of Microbiology	3sh
BL235	Introduction to Business Law	3sh
MK320	Principles of Marketing	3sh
FL---	Foreign Languages	3-9sh (3)

Free Electives: **0-11**

Total Degree Requirements: **124**

- (1) Each student must complete 880 hours of work experience, of which 440 hours must be through supervised experiences in [HR493](#). See department internship coordinator for detailed information.
- (2) Credit counted in Liberal Studies electives.
- (3) Each student must have foreign language proficiency of either:
 - A. Intermediate-level - [SP201](#)/[FR202](#)/[GM252](#) or
 - B. Successful completion of two semesters of one language. Intermediate-level courses may be used as Liberal Studies elective.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 2:45 PM on 7/25/97

The College of Health and Human Services

Department of Human Development and Environmental Studies

Donna L. Streifthau, Chairperson; Austin, Bell, Gordon, Heckroth, Kesner, Lynn, A. Nelson, L. Nelson, Rodgers, Schmitt, Swinker, Viggiano; and professors emeritae Cramer, Gallati, Hovis, Kazmer, Wood

The Department of Human Development and Environmental Studies was created by the merging of the Family and Consumer Sciences Education and Consumer Services departments. The mission statement of the Department of Human Development and Environmental Studies is to empower individuals to support human and environmental needs, enabling them to perform professionally in a changing, diverse technological and global society.

The department is composed of majors that are interdisciplinary and share humanistic values. All majors have an applied research focus and stress critical thinking, professional judgment, decision making, and synthesis of information with direct focus upon career paths.

The Human Development and Environmental Studies Department offers academic programs leading to the Bachelor of Science degree in the following majors: Child Development/Family Relations, Consumer Affairs, Fashion Merchandising, and Interior Design/Housing. The Family and Consumer Sciences Education program leads to a Bachelor of Science in Education. These majors prepare men and women for positions in business, the community, and education. The majors also prepare students for graduate study in the areas of interior design, housing, clothing, textiles, consumer economics, community service, child development, family studies, or education.

Faculty advisors work closely with students in planning and integrating the academic program to meet the students' career goals and to supplement classroom experiences. Internships are available and encouraged so students can apply academic knowledge to actual situations. International study is also available to provide an enriching cultural experience.

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The College of Health and Human Services

Consumer Affairs

The Consumer Affairs major prepares individuals for professional positions in government, business, and the community. This option concentrates on consumer economic behavior and consumer protection and their relationship to the fair exchange and consumption of products and services. The increased interest in consumer concerns has resulted in creating and expanding positions for persons with an understanding of consumer needs, business operations, and regulatory agencies. The interdisciplinary approach provides the necessary knowledge and skills to fulfill the requirements of such positions.

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The College of Health and Human Services

Bachelor of Science-Consumer Affairs

Liberal Studies: As outlined in Liberal Studies section **54-55**

with the following specifications:

Mathematics: [MA101](#) or higher

Natural Science: [CH101-CH102](#)

Social Science: [EC101](#), [PC101](#), [SO151](#)

Liberal Studies electives: no courses with CS prefix

Major: **42**

Required courses:

CS101	Personal and Family Management	3sh
CS121	Introduction to Consumer Services	1sh
CS213	Residential Appliances and Consumer Electronics	3sh
CS312	Housing and Culture	3sh
CS315	Consumer Economics and Family Finance	3sh
CS413	Problems in Consumer Economics	3sh
CS416	Problems in Family Finance	3sh
CS421	Senior Seminar	2sh
FM110	Introduction to Fashion	3sh
FM303	Visual Merchandising	3sh
FM314	Textiles	3sh
FN212	Nutrition	3sh
JN120	Journalistic Writing	3sh

Controlled electives:

Three six-credit courses from list: [CS217](#), [CS433](#), [CS461](#), [CS482](#), [FM112](#), [FM212](#), [FM303](#), [FM350](#), [FM450](#), [HR259](#), [FN362](#), [HR313](#), [HR358](#) 6sh (1)

Other Requirements: **18**

Outside concentration:

Required:

BL235	Introduction to Business Law	3sh
BL336	Law of Business Organizations	3sh
BL337	Consumer Law	3sh

Controlled electives: Three courses from list:

[AD321](#), [MG300](#), [MK320](#), [MK321](#), [MK433](#) 9sh (1)

Free Electives: 9-10

Total Degree Requirements: 124

(1) Substitutions may be approved by department.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 2:51 PM on 7/25/97 ÿ

The College of Health and Human Services

Community Services Track

Within the Consumer Affairs major, students can elect a community services track which offers a broad selection of courses. Electives may be concentrated in specific areas. A concentration of courses is elected in an outside field of study such as sociology or psychology. Graduates may be employed by the Extension Services or by governmental and social agencies.

Liberal Studies: As outlined in Liberal Studies section **54-55**

with the following specifications:

Mathematics: [MA101](#) or higher

Natural Science: [CH101-CH102](#)

Social Science: [EC101](#), [PC101](#), [SO151](#)

Liberal Studies electives: no course with CS prefix

Major: **32**

Required courses:

AR120	Principles of Design	2sh
CS101	Personal and Family Management	3sh
CS121	Introduction to Consumer Services	1sh
CS213	Residential Appliances and Consumer Electronics	3sh
CS312	Housing and Culture	3sh
CS315	Consumer Economics/Family Finance	3sh
CS421	Senior Seminar	2sh
FM110	Introduction to Fashion	3sh
FM314	Textiles	3sh
FN212	Nutrition	3sh
HE224	Marriage and Family Relations	3sh

Controlled electives:

One course from list: [FM112](#) or [FM212](#) 3sh

Other Requirements: **25**

Human Ecology requirements:

FN150	Foods	3sh
FN151	Foods Laboratory	1sh
HE218	Child Development	3sh

Outside concentration: **18sh**

Six courses from list: [AN211](#), [AN319](#), [PC374](#), [PC290](#), [PC322](#),
[PC310](#), [PC311](#), [PC320](#), [PC321](#), [PC330](#), [PC361](#), [PC373](#), [PC374](#), [PC312](#),
[SO231](#), [SO332](#), [SO333](#), [SO336](#), [SO339](#), [SO357](#), [SO435](#), [SW238](#).

Free Electives: **12-13**

Total Degree Requirements: **124**

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 2:55 PM on 7/25/97

The College of Health and Human Services

Fashion Merchandising

The Fashion Merchandising program provides course emphasis in clothing and human behavior, apparel production and analysis, textiles and quality control, apparel distribution, merchandising and promotion, global diversity, historic textiles and apparel, color and aesthetics, and apparel construction. Communications, problem solving, group project organization, professional presentation, and analytical and critical thinking skills are incorporated in course content. The Eberly College of Business complements the Fashion Merchandising major by providing study in one of three options: Business Administration, Marketing, and Small Business Management.

A cooperative program between IUP and the Fashion Institute of Technology in New York City allows students to study one of seven majors: accessories design, advertising and communications, advertising design, fashion design, manufacturing management, textile/surface design, and textile development and marketing.

Graduates of the Fashion Merchandising program are being prepared for entry-level positions such as manufacturer's sales representative, production assistant, ready-to-wear quality control analyst, textile testing laboratory technician, management trainee leading to position of store manager, executive/merchandising trainee leading toward position of buyer/merchandise manager, museum curator assistant, personal color consultant, and personalized shopping specialist for an up-scale retail firm.

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The College of Health and Human Services

Bachelor of Science-Fashion Merchandising

Liberal Studies: As outlined in Liberal Studies section **54-56**

with the following specifications:

Mathematics: [MA101](#) or higher level MA course

Natural Science: [CH101-CH102](#)

Social Science: [EC121](#); [GE104](#) or [PC101](#); [AN110](#) or [AN211](#) or [SO151](#)

Liberal Studies electives: [BE101/CO101/IM101](#), [EC122](#); [MA214](#) or [MA217](#);

no course with FM prefix

Major: **39**

Required courses:

FM110	Introduction to Fashion	3sh
FM112	Fundamentals of Clothing Construction	3sh
FM314	Textiles	3sh
FM350	Apparel Industry I	3sh
FM385	Ready-to-Wear Analysis	3sh
FM434	Quality Control in Textiles /W/	3sh
FM450	Apparel Industry II	3sh
FM456	Historic Costume	3sh
FM480	Seminar in Fashion Merchandising	3sh

Controlled electives:

Courses from [CS205](#), [FM212](#), [FM252](#), [FM281](#), [FM303](#),
[FM357](#), [FM433](#), [FM453](#), [FM454](#), [FM455](#), [FM457](#), [FM481](#), [FM482](#) 12sh

Additional Requirements: **21-24**

Required courses:

AG201	Principles of Accounting I	3sh
MK320	Principles of Marketing	3sh
JN120	Journalistic Writing or	3sh
EN310	Public Speaking	

Students will complete courses in one of the following options:

12-15sh

Option 1: Business Administration Minor (15sh)

[AG202](#), [FI310](#), [MG310](#), select two from [AD321](#), [BL235](#), [IM300](#) (Note: students must meet all minor requirements listed in catalog)

Option 2: Marketing (12sh)

[MK321](#), [MK420](#), select two from [DE332](#) (1), [DE333](#), [MK421](#) (1), [MK430](#), [MK433](#)

Option 3: Small Business Management (12sh)

[MG275](#), [MG325](#) (1), select two from [MG300](#), [MG310](#), [MG350](#), [MG403](#) (2)

Free Electives:

5-10

Total Degree Requirements:

124

(1) Prerequisites to be waived.

(2) Student will need to take [AG202](#) and [AG300](#).

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:24 PM on 7/25/97

The College of Health and Human Services

Interior Design/Housing

The Interior Design program develops creative individuals who are able to conceive, propose, and implement design solutions supportive of the needs of people and the environment. Emphasis is placed on research, synthesis of information, and creative problem solving. Space planning, design graphics, lighting, color theory, historical and modern interiors, housing, and textiles form the core of the program. Students develop an understanding of the Americans with Disabilities Act (ADA) and its relationship to barrier-free design and a sensitivity to global environmental issues. Students tour a variety of settings including offices, museums, factories, showrooms, retail outlets, construction sites, and other design-related facilities. Supportive courses are available in art and business. Potential careers include commercial and residential design, housing, sales, historical preservation, and showroom management.

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The College of Health and Human Services

Bachelor of Science-Interior Design/Housing

Liberal Studies: As outlined in Liberal Studies section **54-55**

with the following specifications:

Mathematics: [MA101](#) or higher

Fine Arts: [AH101](#)

Natural Science: [CH101-CH102](#)

Social Science: [EC101](#), [PC101](#), [SO151](#)

Liberal Studies electives: [AH205](#) or [AH206](#),

no courses with CS prefix

Major: **41**

Required courses:

CS121	Introduction to Consumer Services	1sh
CS213	Residential Appliances and Consumer Electronics	3sh
CS217	Interior Design	3sh
CS312	Housing and Culture	3sh
CS315	Consumer Economics and Family Finance	3sh
CS357	Interior Design Studio	3sh
CS421	Senior Seminar	2sh
CS465	Interior Lighting	3sh
FM314	Textiles	3sh

Controlled electives:

One course from [AR113](#) or [AR120](#) **3-2sh**

Courses from list: [CS101](#), [CS117](#), [CS205](#), [CS281](#), [CS433](#), **14-15sh**

[CS462](#), [CS463](#), [CS464](#), [CS481](#), [CS482](#), [FM303](#)

Other Requirements: **18**

Outside concentration: Six courses from lists **18sh**

Business: [AD101](#) or [MG300](#), [AD321](#), [BL235](#), [BL336](#), [BL337](#),

[BL382](#), [AG201](#), [DE331](#), [DE332](#), [DE333](#), [IM300](#), [MK320](#), [MK433](#)

Art: [AR100](#), [AR111](#), [AR112](#), [AR211](#), [AR213](#), [AR214](#),
[AR215](#), [AR216](#), [AR217](#), [AR218](#), [AR219](#), [AR421](#), [AR451](#)

Free Electives: 10-11

Total Degree Requirements: 124

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:49 PM on 7/25/97

The College of Health and Human Services

Family and Consumer Sciences Education

The Family and Consumer Sciences Education major prepares students for the teaching of family and consumer sciences-related subjects in the public schools. Coursework is required in all areas of family and consumer services, including child development and family relations, consumer economics, clothing, foods, and interior design/housing. Professional education courses are also required.

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The College of Health and Human Services

Bachelor of Science in Education - Family and Consumer Sciences Education (*)

Liberal Studies: As outlined in Liberal Studies

section with the following specifications:

54-56

Natural Science: [CH101-CH102](#)

Social Science: [PC101](#), [SO151](#)

Liberal Studies electives: [CS315](#),

no courses with HE prefix

College:

33

Professional Education sequence:

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED431	Student Teaching in Home Economics	6sh
ED441	Student Teaching	6sh
ED442	School Law	1sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh
FE202	American Education in Theory and Practice	3sh
HE350	Teaching Family Life Education	3sh
HE450	Teaching Vocational Home Economics	3sh
EX300	Education of the Exceptional in the Regular Classroom	0-3sh (1)

Major:

35

Required courses:

CS101	Personal and Family Management	3sh
CS312	Housing and Culture	3sh
FM112	Fundamentals of Clothing Construction	3sh
FM314	Textiles	3sh

FN150	Foods	3sh
FN151	Foods Laboratory	1sh
FN212	Nutrition	3sh
HE218	Child Development	3sh
HE220	Teaching in Child Development Centers	4sh
HE224	Marriage and Family Relations	3sh

Controlled electives:

One from list:	CS213 or CS413	3sh
One from list:	HE424 or HE463	3sh

Free Electives: 0-2

(#)Total Degree Requirements: 124

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:54 PM on 7/25/97

The College of Health and Human Services

Child Development/Family Relations Major

The Child Development/Family Relations program leads to a Bachelor of Science degree. Primary objectives of the program are to prepare professionals to administer and/or work in programs that entail aspects of child development and family relationships; to teach at the adult level; or administer human services agencies at federal, state, or local level. The program also provides preparation for students who want to pursue graduate study in child development or family studies. Students in Child Development/Family Relations may secure certification in Early Childhood Education through an optional program.

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The College of Health and Human Services

Bachelor of Science-Child Development/Family Relations

Liberal Studies: As outlined in Liberal Studies

section with the following specifications:

54-56

Mathematics: [MA101](#) or [MA110](#) or [MA121](#) or [MA217](#)

Natural Science: [CH101-CH102](#)

Social Science: [AN110](#), [PC101](#), [SO151](#)

Liberal Studies electives: no courses with HE prefix

Major:

39-40

Required courses:

CS315	Consumer Economics and Family Finance	3sh
FN212	Nutrition	3sh
HE218	Child Development	3sh
HE220	Teaching in Child Development Centers\W\	4sh
HE224	Marriage and Family Relations	3sh
HE317	Infant Development	3sh
HE426	Techniques of Parent Education	3sh
HE463	Family and the Community	3sh

Controlled electives: (one track)

Track A: Child Development/Family Relations

HE321	Preschool Education (Developmental Programming)	3sh
HE324	Family Dynamics	3sh
HE418	Advanced Child Development	3sh
HE422	Early Childhood Education	3sh
HE424	Family Issues	3sh

Track B: Child Development (by permission only)

HE321	Preschool Education (Developmental Programming)	3sh
HE418	Advanced Childhood Development	3sh

HE420	Practicum	6sh
HE422	Early Childhood Education	3sh

Track C: Family Relations (by permission only)

HE324	Family Dynamics\W\	3sh
HE424	Family Issues	3sh
HE493	Internship	6sh

Other Requirements: 10

Outside courses:

CM301	Technology for Learning and Instruction	3sh
BI155	Human Physiology and Anatomy	4sh
EP202	Educational Psychology	3sh

Free Electives: 18-23

Total Degree Requirements: 124

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:56 PM on 7/25/97

The College of Health and Human Services

Department of Industrial and Labor Relations

James F. Byers, Chairperson; Gaylor, McPherson, Morand, Sedwick, and professor emeritus Gates

The Department of Industrial and Labor Relations offers a graduate program within the College of Health and Human Services leading to the degree of Master of Arts in Industrial and Labor Relations. The 42-semester-hour program consists of a required core of 27 semester hours, including an elective thesis and elective course offerings totaling 15 semester hours. Internships are available and strongly encouraged.

The Industrial and Labor Relations program is multidisciplinary, combining analytical and human relations skills with knowledge drawn from social sciences and business disciplines. The degree is designed to prepare professional industrial and labor relations practitioners in public and private management, unions, neutral agencies, government agencies, and arbitration panels. It has as a special emphasis labor relations in the public sector.

While the department does not offer coursework leading to an undergraduate major or degree, it does offer several undergraduate courses which are open to students of any major or college.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:59 PM on 7/25/97

The College of Health and Human Services

Department of Nursing and Allied Health Professions

Jodell L. Kuzneski, Chairperson; Barlow, Beck, Bellak, Cunningham, Edwards, Gerwick, Hartman, Holmes, Labant, Polansky, Poorman, Rossiter, Sadler, Settlemyer, Shellenbarger, Snyder, Szwarc, Twal, Walz, Zuraikat; and professors emeritae Blair, Hart, Kresak, Murray, Thistlethwaite

The College of Health and Human Services offers a curriculum leading to the Bachelor of Science Degree in Nursing. Students are admitted to the nursing major as freshmen. Upon completion of the program, the graduate is prepared to write the examination for licensure as a Registered Nurse in Pennsylvania and other states. The program is fully accredited by the National League for Nursing.

The nursing curriculum has as its primary goal the development of competent professional nurses who are liberally educated, clinically competent, and aware of their social responsibilities as members of the health professions. The program is designed to provide a broad background in liberal education, coupled with the specialized knowledge and skills required for professional nursing. Additionally, the curriculum prepares the nurse to practice within the professional code of nursing ethics, to function effectively as a member of the health care professions, and to utilize scientific principles in planning and implementing health care. The nursing program emphasizes concepts in health promotion and maintenance and restoration of wellness for people of all ages.

The first three semesters are devoted mainly to Liberal Studies and science courses considered essential to the nursing major. The first clinical nursing courses begin in the fourth semester. Clinical experiences in patient care are provided in acute and long-term care facilities as well as community health agencies throughout the last five semesters. Detailed information is available in the department office regarding health screening requirements, professional uniform requirements, liability insurance needs, and transportation requirements. There is an option to complete the program in five years.

Registered Nurse students are enrolled in the basic baccalaureate program in nursing. They will have an upper-division major in Nursing and will fulfill all degree requirements set by the university and the Nursing Department. The Registered Nurse student may be awarded advanced standing, based on prior work completed at an accredited college or university and on exemption tests in nursing at a given point in the curriculum.

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The College of Health and Human Services

Bachelor of Science-Nursing

Liberal Studies: As outlined in Liberal Studies section **55-56**

with the following specifications:

Mathematics: [MA217](#) (1)

Natural Science: [CH101-CH102](#)

Social Science: [PC101](#), [SO151](#)

Liberal Studies electives: [PY151/PY161](#), [PC310](#),

no courses with NU prefix

Major: **53**

Required courses:

NU280	Introduction to Nursing	3sh
NU285	Introduction to Clinical	3sh
NU302	Core I	2sh
NU303	Clinical Lab I	5sh
NU304	Core II	2sh
NU305	Clinical Lab II	5sh
NU322	Maintenance and Restoration of Wellness I	3sh
NU323	Maintenance and Restoration of Wellness II	3sh
NU402	Core III	2sh
NU403	Clinical Lab III	5sh
NU404	Core IV	2sh
NU405	Clinical Lab IV	5sh
NU422	Maintenance and Restoration of Wellness III	3sh
NU423	Maintenance and Restoration of Wellness IV	3sh
NU430	Nursing Research	3sh
NU480	Seminar in Nursing (2)	4sh

Other Requirements: **19**

Science sequence:

BI105	Cell Biology	3sh
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BI150	Human Anatomy	3sh
BI151	Human Physiology	4sh
BI241	General Microbiology	3sh
FN212	Nutrition	3sh
PC321	Abnormal Psychology	3sh

Free Electives: 0

(#)Total Degree Requirements: 127-128

(1) The Pennsylvania State Board of Nursing requires two units of high school mathematics (one of which is algebra) for admission to the nursing major.

(2) [NU480](#) must be taken four semesters, focusing on a different topic each semester.

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 4:02 PM on 7/25/97

The College of Health and Human Services

Respiratory Care

Respiratory therapists assist physicians in the care of patients who have respiratory system problems or illness that relates to breathing. Their assistance includes administering gaseous drugs and executing therapeutic procedures. Included are the operation and maintenance of specialized equipment.

The program leads to the Bachelor of Science Degree in Respiratory Care. Presented jointly by IUP and the School of Respiratory Care, Western Pennsylvania Hospital in Pittsburgh, the program offers intensive theoretical and applied knowledge to produce highly skilled graduates who are prepared to enter the profession as therapists or instructors.

Two academic years of university studies, followed by two academic years of hospital studies and clinical practice, constitute the program. Incoming students must maintain a QPA of 2.25 in Natural Sciences and Mathematics to be considered for admission into the clinical years in Respiratory Care. However, since admission to the hospital is competitive, IUP cannot guarantee admission into the hospital program.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 4:03 PM on 7/25/97

The College of Health and Human Services

Bachelor of Science-Respiratory Care (*)

Liberal Studies: As follows: 45

Composition: [EN101](#), [EN202](#)

Humanities: three courses, one in each area ([PH222](#) recommended)

Fine Arts: one course

Mathematics: [MA110](#) or higher level

Natural Science: [CH101](#)-[CH102](#)

Social Sciences: [PC101](#), [SO151](#), non-Western course

Health and Wellness/ROTC: H&W recommended

Liberal Studies electives: one course from: [CO101](#), [PC378](#),
other course as approved by advisor.

Synthesis: not required

Major: 62

Required courses:

Completed in junior and senior years at

Western Pennsylvania Hospital in Pittsburgh

RT326	Respiratory Care Clinical Practice I	3sh
RT327	Pharmacology	3sh
RT328	Introduction to Respiratory Care	4sh
RT329	Respiratory Care Instrumentation	4sh
RT330	Cardiopulmonary Resuscitation	2sh
RT331	Introduction to Ventilator Management	1sh
RT333	Respiratory Care Clinical Practice II	4sh
RT334	Respiratory Care Instrumentation and Application	4sh
RT335	Nursing Arts	3sh
RT336	Cardiopulmonary Evaluation and Clinical Correlation	4sh
RT337	Introduction to Pulmonary Functions	1sh
RT426	Respiratory Care Clinical Practice III	5sh

RT427	Applied Pulmonary Physiology	4sh
RT428	Essentials of ECG Interpretation	2sh
RT429	Design and Function of Respiratory Care Department	2sh
RT430	Pulmonary Function Studies	2sh
RT431	Pediatric Respiratory Care	1sh
RT433	Respiratory Care Clinical Practice IV	5sh
RT434	Pediatrics and Selected Topics	3sh
RT436	Respiratory Care Teaching	2sh
RT437	Methods in Critical Care	2sh
RT438	Cardiopulmonary Rehabilitation	1sh

Other Requirements: 17

Science courses:

BI105	Cell Biology	3sh
BI150	Human Anatomy	3sh
BI151	Human Physiology	4sh
BI241	General Microbiology	3sh
PY151	Medical Physics Lecture	3sh
PY161	Medical Physics Lab	1sh

Free Electives: 0

(#)Total Degree Requirements: 124

(*) Curriculum revision is pending approval.

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 4:09 PM on 7/25/97

The College of Health and Human Services

Medical Technology

Medical Technology encompasses the study of analytical and diagnostic procedures used in clinical laboratories and in medical research. Medical technologists perform a variety of laboratory tests upon which the physician depends for accurate diagnosis, prognosis, and proper treatment of the patient. The program of studies, presented jointly by IUP and accredited medical technology programs in hospitals, prepares the student to enter the profession. Upon completion of the four-year program, the degree of Bachelor of Science in Medical Technology is granted. The program also prepares the student for graduate and professional schools.

IUP maintains short- and long-term affiliations with selected hospital schools. The Allied Health Professions coordinator provides student counseling and maintains a liaison with hospital schools. However, since admission to any hospital program is on a competitive basis, IUP cannot guarantee admission into any hospital program.

The following programs maintain permanent agreements of affiliations with IUP: Abington Memorial Hospital, Abington; Allegheny University Hospitals, Elkins Park; Altoona Hospital, Altoona; Conemaugh Memorial Medical Center, Johnstown; Lancaster General Hospital, Lancaster; Latrobe Area Hospital, Latrobe; Polyclinic Medical Center, Harrisburg; and St. Vincent Health Center, Erie. Other temporary affiliations are negotiated for the convenience of the student.

Completion of academic studies at IUP and of one year of clinical experience qualifies the student to take a national certification examination. Successful results on this examination lead to certification as a professionally qualified medical technologist.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 4:04 PM on 7/25/97

The College of Health and Human Services

Bachelor of Science-Medical Technology

Liberal Studies: As follows 45-47

Composition: [EN101](#), [EN202](#)

Humanities: three courses - one in each area (PH222 recommended)

Fine Arts: one course

Mathematics: [MA110](#) or higher level

Natural Science: [CH111](#)-[CH112](#)

Social Sciences: three courses

Health and Wellness/ROTC: H&W recommended

Liberal Studies electives: [PY111](#)

Synthesis: not required

Writing Intensive: one required

Major: 32

Required courses: (1)

MT494	Clinical Microbiology	8sh
MT495	Clinical Chemistry	10sh
MT496	Clinical Hematology/Coagulation	6sh
MT497	Clinical Immunohematology	4sh
MT498	Clinical Immunology/Serology	2sh
MT499	Clinical Seminar	2sh

Other Requirements: Science sequence 37-39

Required courses:

BI111	Principles of Biology I	4sh
BI250	Principles of Microbiology	3sh
BI364	Immunology	3sh
CH231	Organic Chemistry I	4sh
CH232	Organic Chemistry II	4sh
CH323	Analytical Methods	4sh
CH351	Biochemistry	4sh

PY121	Physics I Lab	1sh
PY112/PY122	Physics II Lecture/Lab	4sh

Controlled electives:

Two courses from list:

BI112 , BI120 , BI151 , BI263 , BI331 , BI350 , BI352 , BI360 , BI432 , BI466 , BI476	6sh
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Free Electives: 6-10

(#)Total Degree Requirements: 124

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

(1) These courses are offered by our affiliating hospital-based clinical programs. These areas of study are consistent with requirements of the National Accrediting Agency for Clinical Laboratory Sciences. All six of these areas of study are completed during the final twelve months of the degree program at one of the affiliating hospitals.

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The College of Health and Human Services

Nuclear Medicine Technology

Nuclear Medicine is the medical specialty that utilizes the nuclear properties of radioactive and stable nuclides to make diagnostic evaluations of the anatomic or physiologic conditions of the body and to provide therapy with unsealed radioactive sources. A nuclear medicine technologist's skills complement those of the nuclear medicine physician and other allied health professionals.

The nuclear medicine technologist is a highly trained individual who has completed an approved course of study in the theory of nuclear medicine technology. This allied health profession utilizes radioactive materials for the diagnosis of various pathological disease states and for the treatment of some specific disorders. The American College of Radiology, American Medical Association, American College of Medical Technology, American Society of Technologists, Society of Nuclear Medicine, and the Society of Medicine-Technologist Section cooperate to establish, maintain, and promote appropriate standards of quality for educational programs in nuclear medicine technology.

The program leading to a Bachelor of Science degree in Nuclear Medicine Technology consists of three years of study at IUP and one year at the University of Findlay/Nuclear Medicine Institute in Findlay, Ohio. Incoming students must maintain a QPA of 2.25 in the Natural Science and Mathematics to be considered for admission to the Nuclear Medicine Institute. Since admission to the Nuclear Medicine Institute is competitive IUP cannot guarantee admission into their program.

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The College of Health and Human Services

Bachelor of Science-Nuclear Medicine Technology

Liberal Studies: As follows: 54

Composition: [EN101](#), [EN202](#)

Humanities: three course, one in each area

Fine Arts: one course

Mathematics: [MA110](#) or higher level

Natural Science: [CH101](#)-[CH102](#)

Social Science: [PC101](#), [SO151](#), non-western and social science
([AN110](#) recommended)

Health and Wellness/ROTC: [HP143](#), [FN143](#), or [MS101-MS102](#)

Liberal Studies Electives/Synthesis:

four Liberal Studies electives or three Liberal
Studies electives and one Synthesis course

Major: 32

Required courses: (1)

NT427	Nuclear Scintigraphy	3sh
NT428	Radiation Physics	3sh
NT429	Nuclear Medicine Instrumentation	3sh
NT430	Radiation Biology and Radiation Protection	2sh
NT431	In Vivo/In Vitro Non-Imaging	1sh
NT432	Radiopharmaceutical	3sh
NT433	Introduction to Tomographic Imaging	3sh
NT434	Clinical Nuclear Medicine	1sh

Other Requirements: 18

Science courses:

BI150	Human Anatomy	3sh
BI151	Human Physiology	4sh
PY111	Physics I Lecture	3sh
PY121	Physics I Lab	1sh

PY112	Physics II Lecture	3sh
PY122	Physics II Lab	1sh

Required course:

EN310	Public Speaking	3sh
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Free Electives: **17-20**

At least two of the selected courses must be Writing Intensive.

Total Degree Requirements: **124**

(1) These courses are offered at the University of Findlay/Nuclear Medicine Institute, Findlay, Ohio. These areas of study are consistent with requirements of the Committee for Allied Health Education Accreditation. All eight of these areas of study are completed during the final twelve months of the degree program.

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The College of Health and Human Services

Gerontology Certification Program

The Gerontology Certificate program provides an interdisciplinary approach to the systematic study of the aging and is designed to be combined with any undergraduate major at IUP. The 21-credit-hour program entails three core courses, three elective courses, and an internship that will provide experiential learning in an agency or program serving older adults. Many courses fulfill the requirements for the Liberal Studies program. Applications are available at 244 Johnson Hall. For information call 412-357-7647.

Core Courses:		9
HP350	Health Aspects of Aging	3sh
PC312	Adult Development and Aging	3sh
SO357	Sociology of Aging	3sh

Controlled Electives:		9
AN340 , AN444 , CS315 , GN281 , GN481 , GN482 , HE324 ,		
HP413 , MG300 , MG311 , PC376 , PC378 , PH400 , PH405 ,		
RH312 , SA380 , SO336 , SO342 , SO345		

Other Requirements:		3
Internship (GN493 or internship in student's major)	3sh	

Total Requirements:		21
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The College of Health and Human Services

Department of Safety Sciences

Robert D. Soule, Chairperson; Chekanski, Christensen, Engler, Ferguson, Joseph, McClay, McClosky, Reed

The department offers the Bachelor of Science degree in Safety Sciences with specialization in occupational safety and health. The program in Safety Sciences prepares the student for professional, administrative, managerial, and supervisory positions in industry, manufacturing, insurance, transportation, utility, government, construction, trade service industries, and others. There remains a need in Pennsylvania and the nation for university-educated occupational safety and health professionals. The curriculum includes a major of 41 semester hours in Safety Sciences and an additional 15 semester hours in related professional courses. A variety of elective courses is available in both the major and professional fields that enable students to strengthen their primary interest areas.

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The College of Health and Human Services

Bachelor of Science-Safety Sciences (@)

Liberal Studies: As outlined in Liberal Studies section **56-57**

with the following specifications:

Mathematics: [MA123](#)

Natural Science: [CH101-CH102](#)

Social Science: [PC101](#), [SO151](#), Non-western culture recommended

Liberal Studies electives: [EC122](#), BE/CO/IM101, [MA217](#),

no course with SA prefix

Major: **36**

Required courses:

SA101	Introduction to Occupational Safety and Health	3sh
SA111	Principles of Industrial Safety I	3sh
SA210	Environmental Safety and Health Regulations	3sh
SA211	Principles of Industrial Safety II	4sh
SA301	Health Hazard Identification	3sh
SA303	Control of Health Hazards	3sh
SA311	Industrial Fire Protection	3sh
SA345	Systems Safety Analysis	3sh
SA347	Ergonomics	3sh
SA402	Health Hazard Evaluation	3sh
SA412	Evaluation of Safety Program Effectiveness	4sh
SA488/493	Internship	6sh

Other Requirements: **34**

Additional Science and Math:

PY111	Physics I Lecture	3sh
PY112	Physics II Lecture	3sh
PY121	Physics I Lab	1sh
PY122	Physics II Lab	1sh
BI155	Human Physiology and Anatomy	4sh

Professional courses:

[AD321](#) Business and Interpersonal Communications 3sh

[MG311](#) Human Behavior in Organizations 3sh

Three professional courses approved by student's advisor 9sh

Free Electives: 0

(#)Total Degree Requirements: 126-127

(@) To be implemented 1997-98, pending Council of Trustees approval.

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The College of Health and Human Services

Minor-Safety Scieces

Minor-Safety Sciences

18

Required courses:

SA101	Introduction to Occupational Safety and Health	3sh
SA111	Principles of Industrial Safety I	3sh
SA301	Health Hazard Identification	3sh

Controlled electives:

Three SA courses approved by department chairperson 9sh

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The College of Humanities and Social Sciences

The College of Humanities and Social Sciences

The College of Humanities and Social Sciences provides a liberal education as an essential foundation for the student's preparation for a satisfying career. The college maintains an emphasis on the fundamental understanding of our cultural heritage, combined with development of a thorough background of knowledge in the student's specific area of interest. It seeks to promote in students critical and objective thinking, analytical skill, and a keen awareness of their responsibilities to society.

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The College of Humanities and Social Sciences

College Majors

Anthropology
Criminology
Economics
English
Foreign Languages and International Trade
French
Geography
German
Government and Public Service
History
International Studies
Journalism
Law School Preparation
Philosophy
Political Science
Regional Planning
Religious Studies
Sociology
Spanish

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The College of Humanities and Social Sciences

Degrees

The departments of Anthropology, Criminology, Economics, English, French, Geography and Regional Planning, German, History, Journalism, Philosophy and Religious Studies, Political Science, Spanish and Classical Languages, and Sociology offer work leading to a Bachelor of Arts degree. The Bachelor of Science is offered in Regional Planning. Master of Arts or Master of Science degrees are offered by Criminology, English, Geography and Regional Planning, History, Political Science, and Sociology. The English and Criminology departments offer the Doctor of Philosophy degree. Information about these graduate programs may be obtained from the Graduate School.

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The College of Humanities and Social Sciences

Degree Requirements

In addition to the university's Liberal Studies requirements, all students seeking a baccalaureate degree in the College of Humanities and Social Sciences must complete the requirements for a major as established by the department through which they wish to specialize. Statements of these requirements, and the requirements for those minoring in a specific field, appear in the department sections that follow. A double major or minor may encompass a discipline outside as well as within the college but should be selected only with advisor approval. As a general principle, there is considerable latitude in course choice for Humanities and Social Sciences majors. The intermediate-level foreign language requirement (a description follows) applies without exception to all Humanities and Social Sciences four-year degree programs.

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The College of Humanities and Social Sciences

College Foreign Language Requirements

Students in the Colleges of Natural Sciences and Mathematics and of Humanities and Social Sciences must demonstrate an intermediate level of foreign language proficiency as a college requirement for graduation. They may choose any of the languages offered, including self-instruction in the Critical Languages, described below. Intermediate-level foreign language courses in French, German, Latin, and Spanish will also count as Liberal Studies electives.

For students with previous foreign language instruction or experience, individual placement into foreign language courses may be done during placement testing and registration prior to the first semester at IUP. Students whose placement test demonstrates competence equivalent to the intermediate level are considered to have fulfilled the foreign language requirement. Students with no previous foreign language background will take entry-level courses, which may be counted as free electives in the total required for graduation.

Any foreign student, registered as such at IUP, whose acquired native language is other than English and who demonstrates an acceptable proficiency in English, is exempt from the foreign language requirement if the department of the student's major does not require a specific foreign language.

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The College of Humanities and Social Sciences

Critical Language Program

The Critical Language Program is a self-instructional/tutorial approach to less commonly taught foreign languages. Students meet with a tutor three hours per week in addition to practicing with audio cassettes. Most tutors are native speakers of the language. Professional teachers of the specific language may be brought in from other universities to evaluate student performance. The final grade is based on final examination as well as on performance during the tutorial sessions. Interested students must contact the coordinator before registration. Each course carries three semester hours of credit.

The following languages may be available for study: Arabic, Chinese, Dutch, Modern Greek, Modern Hebrew, Hindi, Hungarian, Italian, Japanese, Korean, Portuguese, Russian, and Turkish.

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The College of Humanities and Social Sciences

Foreign Study Programs

College majors may be interested in the various Foreign Study Programs and Tours offered. Credits obtained through such arrangements normally are applicable toward a Humanities and Social Sciences degree. Also of interest are the college's credit-awarding programs at Valladolid (Spain), Duisburg (Germany), and Nancy (France), as well as the Summer Study in Mexico Program. For further information, contact the chair of the appropriate language department.

IUP at Valladolid: Through the Spanish and Classical Languages Department, the university has offered a spring semester of study at the University of Valladolid, Spain, for more than thirty-five years. The participants live in private homes. For details and brochures, contact the Department of Spanish and Classical Languages.

IUP at Duisburg: IUP has a study abroad program at the University of Duisburg, Germany. The program is open to German majors and other students having specific interest in a foreign study experience. Students must register for FL100 and pay a foreign exchange fee for each semester in the program. For further information, contact the German Department.

IUP at Nancy: IUP has established a study program with the University of Nancy, France. Participants in the Nancy program must pay a foreign exchange fee for each semester in the program. For details, contact the French Department.

IUP at Mexico Summer Program: The Spanish and Classical Languages Department sponsors a program of study in Spanish language in Mexico. The program is located at Cuernavaca, and the cost of the program includes transportation, complete room and board, insurance, and tuition. The student may earn up to six hours of undergraduate or graduate credit. Internship opportunities are available for students with fluency in Spanish. For details and brochures, contact the Department of Spanish and Classical Languages.

IUP at Costa Rica Summer Program: The Department of Spanish and Classical Languages has also established a four-week study program at the National University of Costa Rica, located in Heredia. Participants live with Costa Rican families and take classes at the university. This program is intended for students who are going abroad for the first time, and preference is given to beginning students. Participants earn four transfer credits in Spanish from the UNA. For details and brochures, contact the Department of Spanish and Classical Languages.

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The College of Humanities and Social Sciences

Pre-Law Program

The College of Humanities and Social Sciences offers a pre-law program that prepares the student for application to law school. This program is in the following Social Sciences, Humanities, and Business departments: Business, Criminology, Economics, English, History, Philosophy, and Political Science. All programs are designed as part of a baccalaureate degree and as preparation for law school.

Coursework in the pre-law program centers upon a carefully developed interdisciplinary minor. For detailed guidance in pre-law, students should consult the pre-law advisor in their major department.

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The College of Humanities and Social Sciences

Internship Programs

Humanities and Social Sciences departments have extensive internship programs which allow students to engage in supervised off-campus work experience for credit. IUP students have worked in Harrisburg as aides to state legislators, with the Governor's Justice Commission and the Local Government Commission, and with the Investigations Division, Pennsylvania Department of Justice. Others have worked at correctional institutions in Pittsburgh, Greensburg, and Warrendale, as peer group counselors on the local campus, as assistants to the Pennsylvania state Republican chairperson, as on-site guides at the United Nations, as workers on an Israeli kibbutz, and as student aides for the Department of Education in Puerto Rico. Other students have worked in the Pittsburgh federal probation office. Many students have worked with major political parties and candidates at the local and state levels. At the county level, they have been attached to the offices of the county planner, the Common Pleas Court, the coroner, the treasurer, commissioners, and the borough manager. Students have also worked in the Washington offices of Pennsylvania congressmen and in many federal and international organizations in Washington as well. Opportunities for internships in other countries also exist. For more information about specific internship programs, students should consult with the chair of the department in which the student is majoring.

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The College of Humanities and Social Sciences

Pan-African Studies Minor

The Pan-African Studies minor is a multidisciplinary program that brings together courses focusing on the vitality and accomplishments of pre-colonial African societies, the cultural and racial heritages of people of African descent in relationship to western societies, and aspects of modern-day African cultures. The cluster of courses included in this program represents a broad diverse look at the diaspora of people of African origin.

The minor helps IUP students to enrich their cross-cultural studies; to heighten their awareness of, and sensitivity to, cultural diversity; and to expand their knowledge of world contributions of persons of African heritage. A Pan-African studies minor is thus valuable in an increasingly diverse society and attractive to employers and graduate schools alike.

Minor—Pan-African Studies **18**

Required courses: **6**

AF131	Introduction to Pan-African Studies	3sh
HI365	The History of Black America Since Emancipation	3sh

Electives: Four courses from the following list: **12 (1)**

AF281	Special Topics in Pan-African Studies	3sh
AF481	Special Topics in Pan-African Studies	3sh
AF482	Independent Study	3sh
AN/SO271	Cultural Area Study: Africa	3sh
CM380	The History of African Americans in Film	3sh
EC339	Economic Development I	3sh
EN348	African-American Literature	3sh
GE255	Geography of Africa	3sh
HI355	African History I - Antiquity to 1600	3sh
HI356	African History II - 1600 to Present	3sh
HI366	African-American Women	3sh
PS382	African Politics	3sh
RS360	African Religions	3sh

(1) With the program coordinator's approval, three credits of an internship may be counted towards the Pan-African studies minor.

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The College of Humanities and Social Sciences

Department of Anthropology

Miriam S. Chaiken, Chairperson; Conelly, Garcia, Kruckman, P. Neusius, S. Neusius, Olin-Fahle; and professor emerita Lanham

The Anthropology Department promotes awareness of anthropological knowledge and methods and seeks to further the discipline and its applications to the problems of the contemporary world. Through teaching, research, and involvement in campus and community events and programs, the anthropology faculty members contribute to the liberal education of IUP students. The anthropology major itself equips students with knowledge and skills needed for full participation in the global environment of the twenty-first century.

Anthropology emphasizes the study of human biological and cultural diversity within its four subfields: sociocultural anthropology, biological anthropology, linguistics, and archaeology. All students receive a solid foundation in the discipline of anthropology and tailor their major to specific interests by following one of the three tracks.

The General Anthropology track continues the student's education in all of the subfields of anthropology, preparing the student for a graduate education in anthropology or in one of many related fields. The general track also provides a solid base for interdisciplinary study with a number of other fields including biology, philosophy, political science, psychology, religious studies, sociology, and Spanish.

The Archaeology track provides an emphasis on the study of culture through the material remains of human behavior. This track provides training for careers in the growing fields of cultural resource management and historic preservation, with opportunities for employment in both government and the private sector. A wide variety of internship opportunities provide hands-on training in these areas.

The Applied Anthropology track provides students with a background in anthropological method and theory, a cross-cultural perspective, and an avenue to translate this knowledge into action through internships and research. Examples of career opportunities include program design, implementation, and evaluation; policy analysis and administrative and managerial development; assessment of current and future human needs; and creation of strategies for social intervention and advocacy. In consultation with an advisor, each student will develop his or her own curriculum in order to build expertise in a specific topical area.

The department also offers preparation for teaching social studies with a concentration in anthropology. This program leads to a Bachelor of Science in Education degree. With its emphasis on cross-cultural comparisons, the realities of contemporary global cultures, and cultural resource management, anthropology provides a solid foundation for teaching social science at the secondary level. The department also offers a minor in anthropology.

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The College of Humanities and Social Sciences

Bachelor of Arts-General Anthropology Track

Liberal Studies: As outlined in Liberal Studies section 53-54

with the following specifications:

Mathematics: [MA217](#)

Social Science: [SO151](#) (recommended)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#), (recommended),
no courses with AN prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 33

Required courses:

AN211	Cultural Anthropology	3sh
AN222	Biological Anthropology	3sh
AN233	Language and Culture	3sh
AN244	Basic Archaeology	3sh
AN456	Field Research Methods	3sh

Controlled electives:

One theory course:

AN480	Anthropology Seminar or	3sh
SO447	Modern Sociological Theory (2)	

Three courses in Topical Area Ethnography such as: 9sh

AN271	Cultural Area Studies: Africa
AN272	Cultural Area Studies: China
AN273	Cultural Area Studies: Southeast Asia
AN274	Cultural Area Studies: Latin America
AN314	Native Americans

Two additional AN electives (300 or 400 level)	6sh
Other Requirements:	0
Free Electives:	37-38
Total Degree Requirements:	124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) [SO447](#): Modern Sociological Theory may be taken only with approval of the advisor.

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The College of Humanities and Social Sciences

Bachelor of Arts-Anthropology/Archaeology Track

Liberal Studies: As outlined in Liberal Studies section 53-54

with the following specifications:

Mathematics: [MA217](#)

Natural Science: [GS121](#)/[GS122](#)-[GS131](#)/[GS132](#) (recommended)

Social Science: [SO151](#) (recommended)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#), (recommended),

no courses with AN prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 36

Required courses:

AN211	Cultural Anthropology	3sh
AN222	Biological Anthropology	3sh
AN233	Language and Culture	3sh
AN244	Basic Archaeology	3sh

Controlled electives:

Three methods courses:

AN317	Archaeological Research Design and Analysis	3sh
AN320	Archaeological Field School (2)	6sh
AN415	Cultural Resource Management	3sh

One theory course:

AN480	Anthropology Seminar or	3sh
SO447	Modern Sociological Theory (3)	

Two area courses, one in archaeology and one in ethnography, such as:

AN213	World Archaeology or	3sh
AN315	North American Archaeology	
	and	
AN314	Native Americans or	3sh
AN271 / AN272 / AN273 / AN274	Cultural Area Study	

One topical course such as:

AN401	Sociocultural Change or	3sh
AN420	Cultural Ecology	

Other Requirements: 0

Free Electives: (4) 37-38

Total Degree Requirements: 124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) For approval by advisor, an equivalent field school of another university must have a lab component.
- (3) [SO447](#): Modern Sociological Theory may be taken only with approval of the advisor.
- (4) A minor in Geoscience, Geography, History, or other approved field is recommended. An internship ([AN493](#)) also is recommended. Your adviser should be consulted.

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The College of Humanities and Social Sciences

Bachelor of Arts-Anthropology/Applied Anthropology Track

Liberal Studies: As outlined in Liberal Studies section 53-54

with the following specifications:

Mathematics: [MA217](#)

Social Science: [SO151](#) (recommended)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#),

no courses with AN prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 36

Required courses:

AN211	Cultural Anthropology	3sh
AN222	Biological Anthropology	3sh
AN233	Language and Culture	3sh
AN244	Basic Archaeology	3sh

Controlled electives:

Two methods courses:

AN360	Applied Anthropology	3sh
AN456	Field Research Methods	3sh

One theory course:

AN480	Anthropology Seminar or	3sh
SO447	Modern Sociological Theory (2)	

One area course:

AN314	Native Americans or	3sh
AN271 / AN272 / AN273 / AN274	Cultural Area Study	

Two additional AN electives (300 or 400 level)	6sh
Internship in Anthropology (3)	6sh

Other Requirements: (recommended) **0**

EN322	Technical Writing
SO231	Contemporary Social Problems
SO457	Computer Use in Sociology

Free Electives: **34-35**

Total Degree Requirements: **124**

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) [SO447](#): Modern Social Theory may be taken only with permission of the advisor.
- (3) Internship is highly recommended but may be replaced by 6sh of pragmatic skill courses upon approval of advisor.

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The College of Humanities and Social Sciences

Bachelor of Science in Education-Social Sciences Education/Anthropology Concentration (*)

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Social Science: [AN211](#), [EC121](#), [PC101](#)

Liberal Studies electives: [EC122](#), [GE230](#), no courses with AN prefix

College: 30

Professional Education sequence: (1)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
ED455	Teaching of Social Sciences in Secondary School	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh
FE202	American Education in Theory and Practice	3sh

Major: 21

Required Anthropology courses:

AN211	Cultural Anthropology	*sh
AN222	Biological Anthropology	3sh
AN233	Language and Culture	3sh
AN244	Basic Archaeology	3sh

Two area ethnography courses:

([AN271](#), [AN272](#), [AN273](#), or [AN314](#)) 6sh

Two additional Anthropology courses

numbered 300 or above 6sh

History Distributional Requirements:	9
Any two History courses which focus on the U.S.	6sh
Any Non-Western or World History course	3sh
Required Social Science Distribution:	6
PS280 or PS285	3sh
GE104 , GE252 , GE255 , GE256 , or GE257	3sh
Other Requirements:	0
Free Electives: (2)	0-17
Total Degree Requirements:	124

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

(2) If certain courses are chosen for Social Sciences major, they may also fulfill Liberal Studies requirements and permit additional free electives.

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The College of Humanities and Social Sciences

Minor-Anthropology

Minor-Anthropology

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Required course:

[AN110](#) Contemporary Anthropology 3sh

Controlled electives:

Four additional courses in Anthropology 12sh

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The College of Humanities and Social Sciences

Department of Criminology

Mark E. McNabb, Chairperson; Austin, Culliver, Gibbs, Gido, Hanrahan, Martin, McCauley, Merlo, Moyer, Mutchnick, J. Thomas, Wilson, Zimmerman

The Department of Criminology offers men and women seeking careers in criminology a broad liberal arts education supported by a professional education program. The degree offered is the Bachelor of Arts with a major in Criminology, under the College of Humanities and Social Sciences; students may also minor in Criminology. Through the Graduate School the department offers graduate work at the master's and doctoral level.

The program in Criminology has a five-fold objective:

1. The education of students for employment and leadership in the expanding field of criminology and criminal justice
2. The education of presently employed criminal justice personnel who recognize a need for furthering their education
3. The instruction of students who wish to acquire an understanding of the processes of criminal justice as a cultural part of their higher education
4. The instruction of students who wish to prepare for graduate study and/or research in criminology
5. A curriculum that provides an excellent foundation for students preparing for a career in law

Nearly every level of government offers opportunities for professional careers in criminology. Employment opportunities normally exist in more than fifty federal agencies, including the Federal Bureau of Investigation, U.S. Secret Service; U.S. Postal Inspectors; Drug Enforcement Agency; Bureau of Alcohol, Tobacco, and Firearms; National Security Agency; U.S. Marshals; the Internal Revenue Service; and military investigative branches. Graduates will find employment in local and state law enforcement, probation, parole, and the custody and treatment of adult and youthful offenders. There are also a wide variety of opportunities in the expanding fields of private, commercial, and industrial security. In addition, many governmental agencies have specialized units dealing with juveniles, community relations, training, education, and research.

Career opportunities are available also in research and teaching at the college and university levels and in research divisions of various agencies.

Students who wish to change their major or minor to Criminology or Pre-Law Criminology must have an overall QPA of 2.5 to declare the major or minor and to be accepted formally by the department.

For new entering freshmen, the department will utilize a junior status screening criteria and procedure for junior status approval as described in the section ["Sophomore Screening for Junior Status Approval."](#)

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The College of Humanities and Social Sciences

Bachelor of Arts-Criminology

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Liberal Studies electives: no courses with CR prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 36

Required courses:

CR102	Survey of Criminology	3sh
CR210	Criminal Law	3sh
CR300	Theories of Complex Criminal Justice Organizations	3sh
CR306	Research Methods	3sh
CR400	Theoretical Criminology	3sh
CR401	Contemporary Issues	3sh

Controlled electives:

One course from list: [CR416](#), [CR451](#), [CR470](#), [CR491](#) 3sh

Five additional Criminology courses 15sh (2)

Free Electives: (3) 27-35

Total Degree Requirements: 124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

(2) No more than 6sh of [CR493](#): Internship may be applied to 36sh minimum in major.

(3) Students selecting a minor may apply no more than 15sh outside the College of Humanities and Social Sciences without special approval.

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The College of Humanities and Social Sciences

Bachelor of Arts-Criminology/Pre-Law

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Liberal Studies electives: no courses with CR prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 36

Required courses:

CR102	Survey of Criminology	3sh
CR210	Criminal Law	3sh
CR300	Theories of Complex Criminal Justice Organizations	3sh
CR306	Research Methods	3sh
CR400	Theoretical Criminology	3sh
CR401	Contemporary Issues	3sh

Controlled electives:

One course from list: [CR416](#), [CR451](#), [CR470](#), [CR491](#) 3sh

Five additional Criminology courses 15sh (2)

Other Requirements: Pre-law interdisciplinary minor 15-21

Seven courses, including at least one from
each of six areas:

Business: [BL235](#), [AG201](#), [AG202](#)

Economics: [EC121](#), [EC122](#), [EC332](#)

English: [EN212](#), [EN220](#), [EN310](#)

History: [HI320](#), [HI321](#), [HI346](#)

Philosophy: [PH101](#), [PH222](#), [PH450](#)

Political Science: [PS358](#), [PS359](#), [PS361](#)

Free Electives: (3)

6-20

Total Degree Requirements:

124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) No more than 6sh of [CR493](#): Internship may be applied to 36sh minimum in major.
- (3) Students selecting a minor may apply no more than 15sh outside College of Humanities and Social Sciences without special approval.

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The College of Humanities and Social Sciences

Minor--Criminology

Minor--Criminology (1) 18

Required courses:

CR102	Survey of Criminology	3sh
CR210	Criminal Law	3sh
CR300	Theory of Complex Criminal Justice Organizations	3sh
CR306	Research Methods	3sh
CR400	Theoretical Criminology	3sh
CR401	Contemporary Issues in Criminology	3sh

(1) Must have formal criminology department approval to be admitted to minor in Criminology.

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The College of Humanities and Social Sciences

Department of Economics

Donald A. Walker, Chairperson; Asamoah, Cross, Dyal, Garvin, Holt, Karatjas, Martel, Radakovic, Radell, Stonebraker, Ware

Economics provides a background and educational base that open a broad range of professional, educational, and vocational opportunities. As part of a Humanities and Social Science degree, a Bachelor of Arts in economics provides a liberal education as well as professional and technical training. Indeed, many students completing an undergraduate major in economics do not pursue careers as professional economists; they enter such fields as law, management, finance, and labor relations. By helping to develop a student's ability to think and communicate, economics provides a firm foundation upon which the student can build any one of a large number of possible careers.

Four different degree programs are available: a Bachelor of Arts in Economics that prepares students for immediate employment or graduate school; a pre-law Bachelor of Arts in Economics for students who wish to attend law school; a Bachelor of Arts in Economics/Mathematics combining courses in both areas to prepare students for graduate study in economics as well as possible immediate employment; and the Bachelor of Science in Education that prepares students to teach economics and other social sciences in secondary schools.

The Department of Economics offers concentrations in six areas of Economics. The concentrations are designed to equip students with the education and skills that will help to enable them to obtain a position in government or private business upon completion of the undergraduate program. The concentrations available at present are

- Competition and Public Policy
- Economics of Government Affairs
- International Economics
- Labor Economics
- Managerial Economics
- Monetary Economics
- Quantitative Economics

Detailed information regarding these concentrations may be obtained from the department chairperson. Concentrations are not restricted to Economics majors.

Either [EC101](#): Basic Economics or [ED121](#): Principles of Economics will count as a Liberal Studies social science course. However, [EC101](#) is intended for students who will take only one course in the field. Students who anticipate taking more than one economics course should schedule [EC121](#). [EC101](#) will not count toward either a major or minor in economics and may not be taken after the successful completion of or in concurrent registrations with any other economics course.

Economics majors are encouraged to minor in one of the other Social Sciences, in Business, or in Mathematics.

The Department of Economics houses the Center for Economic Education. The center is a nonprofit, nonpartisan organization affiliated with both the Pennsylvania Council on Economic Education and the National Council on Economic Education. Its mission is to upgrade the quality of economic education in kindergarten through twelfth

grade. The center performs the following functions: teacher training, consulting services, research, materials development, and programs in economic education for adults. Drs. Nicholas Karatjas and Arthur H. Martel are the co-directors of the center.

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The College of Humanities and Social Sciences

Bachelor of Arts-Economics

Liberal Studies: As outlined in Liberal Studies section **53-56**

with the following specifications:

Social Science: [EC121](#)

Mathematics: [MA110](#) or [MA121](#) (1)

Liberal Studies electives: no courses with EC prefix

College: **0-6**

Foreign Language Intermediate Level (2)

Major: **24**

Required courses:

EC121	Principles of Economics I	*sh
EC122	Principles of Economics II	3sh
EC355	Statistics for Economists	3sh (3)
EC421	Macroeconomic Analysis	3sh
EC422	Microeconomic Analysis	3sh
MA121	Calculus I for Natural and Social Sciences and Business	*sh (1)

Controlled electives:

Four other EC courses **12sh (4)**

Free Electives: **38-47**

Total Degree Requirements: **124**

- (1) [MA123](#) or [MA127](#) may be substituted for [MA121](#).
- (2) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (3) [MA214](#), [MA217](#) or [MA363](#) may be substituted for [EC355](#).
- (4) No more than six hours of Internship credit may be applied toward major.

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The College of Humanities and Social Sciences

Bachelor of Arts-Economics/Pre-law

Liberal Studies: As outlined in Liberal Studies section 53-56

with the following specifications:

Social Science: [EC121](#)

Mathematics: [MA110](#) or [MA121](#) (1)

Liberal Studies electives: no courses with EC prefix

College: 0-6

Foreign Language Intermediate Level (2)

Major: 24

Required courses:

EC121	Principles of Economics I	*sh
EC122	Principles of Economics II	3sh
EC355	Statistics for Economists (3)	3sh
EC421	Macroeconomic Analysis	3sh
EC422	Microeconomic Analysis	3sh
MA121	Calculus I for Natural and Social Sciences and Business (1)	*sh

Controlled electives:

Four other EC courses 12sh (4)

Other Requirements: Pre-law interdisciplinary minor 6-21

Seven courses, including at least one
from each of six areas:

Business: [BL235](#), [AG201](#), [AG202](#)

Criminology: [CR210](#), [CR260](#), [CR357](#)

English: [EN212](#), [EN220](#), [EN310](#)

History: [HI320](#), [HI321](#), [HI346](#)

Philosophy: [PH101](#), [PH222](#), [PH450](#)

Political Science: [PS358](#), [PS359](#), [PS361](#)

Free Electives: 17-36

Total Degree Requirements: 124

- (1) [MA123](#), or [MA127](#) may be substituted for [MA121](#).
- (2) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (3) [MA214](#), [MA217](#), or [MA363](#) may be substituted for [EC355](#).
- (4) No more than six hours of Internship credit may be applied toward major.

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The College of Humanities and Social Sciences

Bachelor of Arts-Economics/Mathematics

Liberal Studies: As outlined in Liberal Studies section **47-49**

with the following specifications:

Social Science: [EC121](#) (included in major)

Mathematics: [MA127](#) (included in major)

Electives: Intermediate foreign language,
no course with EC or MA prefix.

Major: **54-56**

Core:

EC121	Principles of Economics I	3sh
EC122	Principles of Economics II	3sh
EC421	Macroeconomic Analysis	3sh
EC422	Microeconomic Analysis	3sh
MA127	Calculus I	4sh
MA128	Calculus II	4sh
MA227	Calculus III	4sh
MA171	Introduction to Linear Algebra	3sh
MA216 or EC355	Statistics	3-4sh

Economics Electives: **12**

Students are especially encouraged to take [EC334](#)
and [EC356](#), but any course except [EC101](#) may be used.
[EC493](#) may be counted only with the approval
of the program coordinator.

Mathematics Electives: **12-13**

At least one of the following two-semester sequences:

- [MA241](#) Differential Equations and [MA371](#) Linear Algebra
- [MA363](#) and [MA364](#) Mathematical Statistics I and II
- [MA445](#) and [MA446](#) Programming and Probabilistic Models

in Operations Research

Two additional courses either from the above or from the following:

MA271	Introduction to Algebraic Structures
MA342	Advanced Mathematics for Applications
MA417	Statistical Applications or
	MA418 Sampling Survey Theory
MA421	Advanced Calculus I
MA422	Advanced Calculus II
MA423	Complex Variables I
MA425	Applied Mathematical Analysis I
MA427	Topography
MA465	Topics in Statistics
MA476	Abstract Algebra I
MA477	Abstract Algebra II

Other Requirements: 0

Free Electives: 19-23

Total Degree Requirements: 124

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:58 PM on 7/25/97

The College of Humanities and Social Sciences

Bachelor of Science in Education-Social Science Education/Economics Track (*)

Liberal Studies: As outlined in Liberal Studies section

with the following specifications:

53-55

Social Science: [PC101](#), [PS111](#), [AN110](#) or [AN211](#)

Mathematics: [MA110](#) or [MA217](#) or [MA121](#)

Liberal Studies electives: [GE230](#), [SO337](#)

College:

30

Professional Education sequence: (1)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
ED455	Teaching of Social Science in the Secondary School	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurement	3sh
FE202	American Education in Theory and Practice	3sh

Major:

21

Required Economics courses:

EC121	Principles of Economics I	3sh
EC122	Principles of Economics II	3sh

Controlled Economics electives:

15sh

Upper-level Economics courses including at least one writing-intensive course and at least one course from each of the following three groups:

International courses: [EC339](#), [EC345](#), [EC350](#), [EC351](#)

Macroeconomic courses: [EC325](#), [EC343](#), [EC421](#)

Microeconomic courses: [EC283](#), [EC330](#), [EC331](#), [EC332](#),
[EC333](#), [EC335](#), [EC336](#), [EC373](#), [EC383](#)

Other Requirements: 15-18

Required Social Science distribution

[HI203](#) U.S. History for Historians 3sh

GE____ 3sh

[PS280](#) or [PS285](#) Comparative Governments 3sh

Social Science minor 6-9sh (2)

Free Electives: 0-4

Total Degree Requirements: 124

(* See requirements leading to teacher certification in the catalog section on Academic Policies, "Admission to Teacher Education."

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require EX301 (2sh).

(2) Students must complete a minor in second Social Science of their choice. The coursework for each alternative is described below. Some of the courses chosen may also fulfill the third Liberal Studies elective course above.

1. Anthropology: [AN110](#) or AN211, 12 additional sh in AN
2. Geography: [GE230](#) (3sh) and 12 additional sh in GE
3. History: [HI195](#) (3sh), [HI203](#) (3sh), 9 additional sh in HI
4. Political Science: [PS111](#), [PS280](#) or [PS285](#), 9 additional sh in PS
5. Sociology: [SO151](#), [SO237](#), 9 additional sh in SO

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The College of Humanities and Social Sciences

Minor in Economics

Minor: 15

Required courses:

[EC121](#) Principles of Economics I 3sh

[EC122](#) Principles of Economics II 3sh

Three courses from [EC200](#) or higher 9sh

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The College of Humanities and Social Sciences

Department of English

Donald S. McClure, Chair; Gail I. Berlin, Assistant Chair; Aghbar, Alvine, Bencich, Berlin, L. Black, Bower, Cahalan, Carse, Chow, Comfort, Curey, Dandurand, Downing, Emerick, Fritz, Gatti, Gebhard, Goebel, Gray, Hartwell, M. Hayward, N. Hayward, Heny, B. Hudson, S. Hudson, Hurlbert, R.G. Johnson, S. F. Johnson, Kilwein-Guevara, Kraszewski, Krupnik, Masiello, McAndrew, McClenahan, McClure, Rodriguez-Milanes, Murphy, Norris, Orchard, Pagnucci, Perdue, Rafoth, Roffman, Savova, Shafer, Slater, Smits, Tannacito, Thomas, Vella, Villa, Welsh, Wheeler, M. M. Williamson, M. T. Williamson, Wilson; and professors emeriti Anderson, Betts, J. Bright, L. Bright, Brown, Craig, Davis, Freund, Grayburn, Miller, Nania, Ray, Rider, Roumm, Seacrist, Seinfelt, Smith, Swigart, Watta, Woodworth

The program of studies in the English Department at IUP focuses on critical thinking and effective reading and writing at all levels. English majors study a wide variety of subjects ranging from literary theory to practical pedagogy, in an atmosphere that encourages and fosters a high degree of professional commitment.

Course choices depend upon a student's career goals; three specialized majors are offered, each of which undergoes regular revision to reflect the needs of students and the structure of a changing, competitive job market.

The B.A. in English Humanities offers a wide range of courses in both traditional and nontraditional areas, which allows students to tailor their programs to reflect their own interests and career plans.

Pre-Law English offers specialized training for those interested in a career in law or some related field.

The English Education program offers special training for prospective secondary school teachers. IUP's consistent success in placing graduates from this major in teaching positions suggests that the program is highly regarded among educators outside the university.

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The College of Humanities and Social Sciences

English Humanities

The English Department B.A. Humanities curriculum emphasizes the traditional concerns of English literary study by providing a common core of four courses that provide students with a uniform background in English and American literature, after which they are offered a wide range of choices in six substantial areas of required study. These required and controlled-elective courses constitute 30 credit hours of a major that totals 36; the remaining courses can be any upper-level English elective offerings, but students are urged to explore possibilities carefully with their advisors so as to complete the program best suited to their future goals.

- Specifically, after completing the four prerequisite courses and the Liberal Studies English requirements, students must take one Period Course (Category A)
- one Form and Theory of Genre Course (Category B)
- one Alternative Literatures Course (Category C)
- one European Tradition Course (Category D)
- one Major Authors Course (Category E)
- one Writing, Speech, Linguistics Course (Category F)
- a minimum of *two* courses beyond these group requirements. These two courses may be from one or more of the groups, or may be Topics Courses in literature, film, or literary theory.

Students, especially those for whom the B.A. is a terminal degree, are encouraged to seek an internship in their junior or senior year as a means of developing and demonstrating the skills they have acquired.

Since the major can be completed with 36 hours of coursework, students have 27-35 hours outside of the Liberal Studies requirements, depending on their foreign language status, of unspecified coursework. Students should explore their options carefully with their advisor. Beyond the basic requirements of the major, opportunities exist for students to elect courses allowing them to concentrate further in such areas as writing, film, and British or U.S. literature.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 9:08 PM on 7/25/97

The College of Humanities and Social Sciences

Bachelor of Arts-English (@)

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Humanities-Literature: [EN122](#)

Liberal Studies electives: no courses with EN prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 36

Required courses:

EN210	British Literature to 1660	3sh
EN211	British Literature 1660-1900	3sh
EN212	American Literature: Beginnings to 1900	3sh
EN213	British and American Literature Since 1900	3sh

Controlled electives: (2) (3) 24sh

One course from Category A (Period): [EN301](#), [EN302](#),
[EN303](#), [EN304](#), [EN305](#), [EN306](#), [EN307](#), [EN315](#), [EN316](#), [EN317](#), [EN319](#)

One course from Category B (Form and Theory of Genre):
[EN208](#), [EN214](#), [EN215](#), [EN216](#), [EN217](#), [EN332](#), [EN335](#), [EN337](#), [EN338](#)

One course from Category C (Alternative Literatures):
[EN225](#), [EN344](#), [EN348](#), [EN385](#), [EN386](#), [EN396](#)

One course from Category D (The European Tradition):
[EN349](#), [EN354](#), [EN387](#), [EN391](#), [EN393](#), [EN394](#), [EN395](#)

One course from Category E (Major Authors):
[EN430](#), [EN432](#), [EN434](#), [EN436](#)

One course from Category F (Writing, Speech, Linguistics): [EN220](#), [EN221](#), [EN310](#), [EN311](#), [EN312](#), [EN313](#), [EN320](#),
[EN322](#), [EN325](#), [EN326](#), [EN329](#), [EN330](#), [EN333](#), [EN334](#), [EN336](#), [EN420](#), [EN422](#)

Two courses from Category G: Any combination of six

semester hours from [EN281](#), [EN356](#), [EN357](#), [EN390](#), [EN401](#),
[EN460](#), [EN461](#), [EN462](#), [EN481](#), [EN482](#), [EN493](#), and/or any other
courses listed above under categories A through F.

Other Requirements:	0
Free Electives: (3)	27-35
<hr/>	
Total Degree Requirements:	124

(@) Program revision pending Council of Trustees approval.

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

(2) Any EN281, 481, or 482 course must have prior approval from department chair if it is to apply to the student's major other than in Category G.

(3) An internship, aside from counting for six semester hours toward the major, makes the B.A. degree recipient much more employable by providing job experience. Students should see the English B.A. Program Internship Director for advice about available openings.

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The College of Humanities and Social Sciences

Education Program

The English Department offers a program leading to the Bachelor of Science in Education Degree in English Education. This program has been accredited by the National Council for Accreditation of Teacher Education (NCATE). Graduates are prepared to teach in middle, junior high, and senior high schools.

English Education majors fulfill all the requirements for state certification, including practical experience in methods courses and student teaching; content preparation in a variety of literature, language, and composition courses; and philosophical background in current theories of teaching. Although most students choosing an English Education major will be fitted both by training and desire for the secondary school classroom, those who opt not to teach will find that their speaking, writing, and management skills can be useful to the media, governmental services, and business.

Program requirements are available at the English Department office. Majors must maintain a QPA average of 2.5. They must be formally admitted to the Teacher Certification Program, a process which includes application and screening within the English Department. This screening involves review of the student's portfolio of written work and faculty evaluations, as well as an interview with English Education faculty. Refer to the section [Admission to Teacher Education](#) in the Academic Policies section of this catalog.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:15 PM on 7/25/97

The College of Humanities and Social Sciences

Bachelor of Science in Education-English Education (*) (@)

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Humanities-Literature: [EN210](#)

Fine Arts: [TH101](#)

Social Science: [PC101](#)

Liberal Studies electives: Intermediate-Level

Foreign Language, no courses with EN prefix

College: 30

Professional Education sequence: (1)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
ED452	Teaching of English in the Secondary School	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurement	3sh
FE202	American Education in Theory and Practice	3sh

Major: 40

Required courses:

EN212	American Literature: Beginnings to 1900	3sh
EN220	Advanced Composition I	3sh
EN314	Speech and Communication in the Secondary English Classroom	3sh
EN318	Literature of Adolescents	3sh
EN323	Teaching Literature and Reading in the Secondary School	3sh
EN324	Teaching and Evaluating Writing	3sh

EN329	History of the English Language	1sh
EN330	Structure of English	3sh
EN434	Shakespeare	3sh

Controlled electives:

Choose one Genre course:	EN214 , EN215 , EN216 , EN217	3sh
Choose one British Literature Survey:	EN211 , EN212	3sh
Choose one Theme course:	EN344 , EN348 , EN386	3sh
Choose two additional courses from list:		6sh
	EN208 , EN210 , EN211 , EN213 , EN214 , EN215 , EN217 , EN221 , EN320 , EN322 , EN333 , EN336 , EN337 , EN348 , EN386	

Other Requirements: 0

Free Electives: 2-4

Total Degree Requirements: 124

(@) Program revision pending Council of Trustees approval. (*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

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The College of Humanities and Social Sciences

Pre-Law English

Successful lawyers possess excellent skills in writing and speaking and can analyze a problem and explain its solution in clear, logical terms. Pre-Law English prepares the student especially well in these areas and provides the skills and knowledge needed to do well in the law school admissions examination.

Most graduates have had successful internships in the offices of practicing attorneys and government agencies, although an internship remains optional. Students wishing an internship should contact the department director of internships early in their career at IUP.

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The College of Humanities and Social Sciences

Bachelor of Arts-English/Pre-law (@)

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Humanities-Literature: [EN122](#)

Liberal Studies electives: no courses with EN prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 36

Required courses:

EN210	British Literature to 1660	3sh
EN211	British Literature 1660-1900	3sh
EN212	American Literature: Beginnings to 1900	3sh
EN213	British and American Literature Since 1900	3sh

Controlled electives: (2) (3) 24sh

One course from Category A (Period): [EN301](#), [EN302](#),
[EN303](#), [EN304](#), [EN305](#), [EN306](#), [EN307](#), [EN315](#), [EN316](#), [EN317](#), [EN319](#)

One course from Category B (Form and Theory of Genre):
[EN208](#), [EN214](#), [EN215](#), [EN216](#), [EN217](#), [EN332](#), [EN335](#), [EN337](#), [EN338](#)

One course from Category C (Alternative Literatures):
[EN225](#), [EN344](#), [EN348](#), [EN385](#), [EN386](#), [EN396](#)

One course from Category D (The European Tradition):
[EN349](#), [EN354](#), [EN387](#), [EN391](#), [EN393](#), [EN394](#), [EN395](#)

One course from Category E (Major Authors):
[EN430](#), [EN432](#), [EN434](#), [EN436](#)

One course from Category F (Writing, Speech, Linguistics): [EN220](#), [EN221](#), [EN310](#), [EN311](#), [EN312](#), [EN313](#), [EN320](#),
[EN322](#), [EN325](#), [EN326](#), [EN329](#), [EN330](#), [EN333](#), [EN334](#), [EN336](#), [EN420](#), [EN422](#)

Two courses from Category G: Any combination of six

semester hours from [EN281](#), [EN356](#), [EN357](#), [EN390](#), [EN401](#),
[EN460](#), [EN461](#), [EN462](#), [EN481](#), [EN482](#), [EN493](#), and/or any other
courses listed above under categories A through F.

Other Requirements: Pre-law interdisciplinary minor **3-21**

Seven courses, including at least one from each of six areas:

Business: [BL235](#), [AG201](#), [AG202](#)

Criminology: [CR210](#), [CR260](#), [CR357](#)

Economics: [EC121](#), [EC122](#), [EC332](#)

History: [HI320](#), [HI321](#), [HI346](#)

Philosophy: [PH101](#), [PH222](#), [PH450](#)

Political Science: [PS358](#), [PS359](#), [PS361](#)

Free Electives: (3) **6-26**

Total Degree Requirements: **124**

- (@) Program revision pending Council of Trustees approval. (1) Intermediate-level Foreign Language may be included in Liberal Studies elective.
(2) Any EN281, 481, or 482 course must have prior approval from department chair if it is to apply to the student's major other than in Category G.
(3) An internship with a law firm, public agency, or legislative office greatly strengthens law school applications.
-

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The College of Humanities and Social Sciences

Minor in English Department

To minor in English, 15 semester hours in English are required beyond the Liberal Studies requirement of [EN101](#), [EN121](#), and [EN202](#).

Students who choose to minor in English should, if their major department concurs, substitute [EN210](#): Introduction to Literary Analysis for [EN121](#).

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The College of Humanities and Social Sciences

English as a Second Language (ESL) Program

The English department's English as a Second Language curriculum consists of a sequence of courses: EN150 ESL, EN100 ESL, EN101 ESL, EN121 ESL, and EN202 ESL. These courses satisfy the same university and college requirements as their non-ESL equivalents; like the non-ESL courses, they are designed to focus on skills needed for successful use of language in an academic setting. However, the methodology and curriculum for these courses are specially designed to meet the needs of non-native speakers of English, and only non-native students are permitted to enroll in sections designated "ESL." Placement of students in these sections is determined by the results of the English Department ESL Placement Test, given at the beginning of each term.

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The College of Humanities and Social Sciences

Department of French

Robert L. Whitmer, Chairperson; Henry, Jones, Liscinsky, McCreary, Op de Beeck; and professor emeritus Fisel

The Department of French offers a varied curriculum designed to provide not only basic language instruction but also the more advanced competencies needed by language specialists and students hoping to take advantage of an international study experience. For the French major, the department has three degree programs: B.S. in Education (K-12), B.A. in Liberal Arts, and the B.A. in French for International Trade. The latter degree program provides solid undergraduate training preparatory to an M.B.A. in International Marketing and Finance.

Students majoring in French will acquire proficiency in all phases of the language and enter more deeply into the history, culture, and literature of Francophone countries. They will also gain some knowledge of the linguistic development of the language throughout the centuries. French majors generally find employment in government work, librarianship, journalism, foreign trade, airlines, tourism, business, and teaching. Students choosing careers as teachers will find the close supervision and advanced methodology offered by the department a distinct asset.

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The College of Humanities and Social Sciences

College Language Requirements

Students in the College of Humanities and Social Sciences and in the departments of the College of Natural Sciences and Mathematics must pass the intermediate sequence of a foreign language([FR201-FR202](#) or [FR203](#)) or demonstrate that they have somehow acquired the equivalent proficiency level. Students from the other colleges may choose to take French ([FR201](#) and [FR202](#) or the accelerated [FR203](#)) to fulfill a Liberal Studies elective. Any student who chooses French has an option to enroll in the traditional, three-credits-per-semester courses or the accelerated, six-credit track.

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The College of Humanities and Social Sciences

Placement/Exemption

The student with no previous French study will take [FR101](#) (four credits) as a prerequisite. Students with previous French study will be placed into the appropriate course level by means of a written departmental exam administered in the summer for entering freshmen and during the first week of each term for other students. No student judged to be a native speaker of French will be allowed to enroll in any course below the 300 level, with the exception of [FR254](#).

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The College of Humanities and Social Sciences

French for Elementary Education

A student in Elementary Education may elect a concentration of 18 semester hours of French, consisting of the following:

FR201-FR202	6 sh
FR221-FR222	4 sh
FR321-FR322	2 sh
FR351-FR352	6 sh

A student in Elementary Education interested in bilingual elementary teaching may, through special scheduling arrangements, increase the concentration in French to include foreign study and foreign child-centered internship experience.

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The College of Humanities and Social Sciences

Study Abroad - Nancy, France

IUP has established a study abroad center in Nancy, France. All majors are encouraged to participate in the Study Abroad Program, especially those seeking the International Trade degree. Students have an option to participate in a full-year or one-semester program (spring). A six-week summer session has also been added to the options available. Nonmajors may be accepted into any of the programs but must enter the language courses offered in the Cours pour etrangers (Courses for Foreign Students). All credits are evaluated by the department as transfer credits. For further information regarding the cost and application procedures, contact the office of the dean of the college.

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The College of Humanities and Social Sciences

Internships

The Department of French, through contacts with certain French companies and through its affiliation with the ICN (Institut Commercial de Nancy), is able to place summer interns in Paris and other sites in France. The internship (generally six to twelve credits) is viewed as a highly desirable culminating experience following study in Nancy. For further information, contact the office of the dean of the college at least six months in advance.

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The College of Humanities and Social Sciences

Bachelor of Arts-French

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Liberal Studies electives: no courses with FR prefix

College: 0

Foreign Language (included in major)

Major: 36

Required courses:

FR201	College French I	3sh (1)
FR202	College French II	3sh (1)
FR221	French Conversation III	2sh
FR222	French Conversation IV	2sh
FR321	Advanced Conversation I	1sh
FR322	Advanced Conversation II	1sh
FR351	Advanced French Language I	3sh
FR352	Advanced French Language II	3sh
FR361	Development of French Culture and Literature I	3sh
FR362	Development of French Culture and Literature II	3sh

Controlled electives:

Other French electives: 12sh

Free Electives: 33-35

Total Degree Requirements: 124

(1) [FR203](#) Accelerated College French will substitute for these courses.



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The College of Humanities and Social Sciences

Minor-French

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Required courses:

FR201-FR202	College French I and II	6sh
FR221-FR222	French Conversation III and IV	4sh
FR351-FR352	Advanced French Language I and II	6sh
FR321-FR322	Advanced Conversation I and II	2sh
FR361	Development of French Culture and Lit I	3sh

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The College of Humanities and Social Sciences

Bachelor of Arts-French for International Trade

Liberal Studies: As outlined in Liberal Studies section **54-56**

with the following specifications:

Mathematics: MA121

Social Science: EC121, PC101, PS101

Liberal Studies electives: MA214, no courses with FR prefix

College: **0**

Foreign Language (included in major)

Major: **36**

Required courses:

FR201	College French I	3sh (1)
FR202	College French II	3sh (1)
FR221	French Conversation III	2sh
FR222	French Conversation IV	2sh
FR321	Advanced Conversation I	1sh
FR322	Advanced Conversation II	1sh
FR351	Advanced French Language I	3sh
FR352	Advanced French Language II	3sh
FR361	Development of French Culture and Literature I	3sh
FR362	Development of French Culture and Literature II	3sh

Controlled electives:

Two additional FR electives (advanced levels) (2) **6sh**

Other Requirements:

Business sequence: **33**

AD321	Business and Interpersonal Communications	3sh
AG201	Accounting Principles I	3sh
AG202	Accounting Principles II	3sh

BL235	Introduction to Business Law	3sh
EC122	Principles of Economics II	3sh
FI310	Finance I	3sh
IM300	Information Systems: Theory and Practice	3sh
MG311	Human Behavior in Organizations	3sh
MG330	Production and Operations Management	3sh
MK320	Principles of Marketing	3sh
OB215	Business Statistics	3sh

Free Electives: 0-1

Total Degree Requirements: 124-125

- (1) [FR203](#) Accelerated College French will substitute for these courses.
- (2) Most students earn additional language credits (up to 18) in semester or year abroad.

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The College of Humanities and Social Sciences

Bachelor of Science in Education-K-12 French Education (*)

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Social Science: [PC101](#)

Liberal Studies electives: no courses with FR prefix

College: 32

Professional Education sequence:

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
ED453	Teaching of Foreign Languages in the Secondary School	3sh (2)
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurement	3sh
EX301	Education of Students with Disabilities in Inclusive Secondary Settings	2sh
FE202	American Education in Theory and Practice	3sh

Major: 33

Required courses:

FR201	College French I	3sh (1)
FR202	College French II	3sh (1)
FR221	French Conversation III	2sh
FR222	French Conversation IV	2sh
FR321	Advanced Conversation I	1sh
FR322	Advanced Conversation II	1sh
FR351	Advanced French Language I	3sh
FR352	Advanced French Language II	3sh
FR361	Development of French Culture and Literature I	3sh

Controlled electives:

Other FR electives 9sh

Other Requirements: 0**Free Electives:** 4-6**Total Degree Requirements:** 124

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) [FR203](#) Accelerated College French will substitute for these courses.

(2) [ED453](#) offered only in fall semester.

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1996-1997 Undergraduate Catalog
Indiana, Pennsylvania 15705

The College of Humanities and Social Sciences

Department of Geography and Regional Planning

Susan E. Forbes, Chairperson; Begg, Bencloski, Buckwalter, Miller, G. Sechrist, R. Sechrist, Shirey, Watts; and professors emeriti Gault, Kulkarni, Payne, Tepper, Weber

The Department of Geography and Regional Planning offers three separate degree programs for the geographer, planner, and teacher.

Geography has several traditions of study. Two of the more important traditions are the study of relationships between humans and environment or the ecological tradition and the study of spatial organization, which involves the way people use space on the earth's surface. In both traditions the focus is on understanding regions of the world and the interactions within and between them. Geographers make important contributions to the understanding of all aspects of humankind's use of and impact on the earth's surface.

Regional Planning involves preparing for the future. The demands and effects of a large and growing population require that land use, resource use, settlement patterns, transportation systems, and economic activity be planned. Regional planning is concerned with the social, locational, and environmental aspects of these planning decisions. In the 1990s, economic development has become an important focus for planners

The geography track in social science education offers a geography major equivalent for the student interested in teaching at the junior or senior high levels. New education requirements instituted for the commonwealth specify that geography be taught at all levels in Pennsylvania. Nationally, geography is one of the core subject areas named in the National Education Goals program.

Geography and Regional Planning are in the same department, because "Planning is the art of which geography is the science." Employment opportunities for geographers and regional planners are good. Students will find a wide variety of positions in government, business, industry, planning, and education available. Environmental and locational knowledge gained in the department's programs provide skills needed in the job market. Students interested in obtaining additional career information should visit the departmental office in Room 10, Leonard Hall.

Three degree programs are offered by the department:

1. Bachelor of Arts in Geography
2. Bachelor of Science in Regional Planning
3. Bachelor of Science in Social Science Education/Geography Track

In addition to geography core (GE), there are four tracks for specific geographic competencies: GIS/Cartographer, Environmental Geographer, Economic Geographer, and General Geographer. The regional planning (RP) major offers specific career opportunities in four somewhat parallel tracks: GIS/Cartographer, Environmental Planner, Economic Planner, and Town Manager.

A minor in geography or regional planning is appropriate for majors in all other fields of the natural and social sciences. Students in business may also find a minor in either field relevant. A minor consists of 15 semester hours in GE or RP courses. The department suggests students take the core in either program if graduate study is anticipated.

Geography and Regional Planning department resources include the departmentwide LAN, GIS/Cartography Computer

Lab with six Dell workstations, large-format digitizers, size E plotters, zoom transfer scope, color printers, HP laser printer, and PC ARC/INFO and ArcView, AUTOCAD, ARCCAD, ERDAS, IDRISI, Map Info and Atlas*GIS software packages. The Spatial Sciences Research Center (SSRC), directed by Dr. Robert Sechrist, has production facilities for GIS database development using PCARC/INFO and ArcView, ARC CAD, Atlas*GIS, and Map Info. These packages run on the SSRC VAX-based network and eight 486s and eight Pentiums.

The Census Documents Library, in conjunction with Stapleton Library, houses population/housing/socioeconomic/mapping database CDS and other publications used for teaching, research, and planning in community service and local and county governments. The department is also an affiliate of the Bureau of Economic Analysis at the Census Bureau.

The department houses both the National Council for Geographic Education (NCGE), which serves geography educators at all levels with activities and programs that address geography learning and instructional and research issues in North America, and the Pennsylvania Geographic Alliance (PGA), which is supported by the Pennsylvania Department of Education. PGA provides leadership and professional development opportunities in geography teaching and learning in Pennsylvania. Dr. Ruth Shirey is executive director of NCGE and one of two PGA coordinators in Pennsylvania.

A strong internship program directed by Dr. D. Whit Watts offers placement in conservation, land management, and planning agencies at the local, state, and federal levels.

Majors in geography and in regional planning each have a specific core curriculum that presents a structured approach to the field. Appropriate subfields or tracks are available in both programs to prepare students for graduate work and to support different career options for majors. There are four tracks for the geography major and four tracks for the regional planning major.

Geography - General Geography Track

The General Geography Track encourages the major to sample courses from different subfields of the discipline. This track prepares the major for graduate work in geography and related fields of employment. Job options include report writing, research analysis, and data gathering. In government employment, the State Department, Department of Commerce, and the Census Bureau are significant places for geography skills.

Geography - Geographic Information Systems and Cartographer Track

Regional Planning - Geographic Information Systems and Cartographer Track

The Geographic Information Systems and Cartographer Track prepares students for employment as Geographic Information System Specialists, Facilities Managers, Cartographers, and Remote Sensing professionals. Coursework includes methods for identifying, modeling, and analyzing the spatial organization of human and environmental systems from both practical and theoretical perspectives. Data collection, spatial information management, and graphic presentation are integral skills taught in track courses. Such skills could be used, for example, for analysis of wildlife habitat, utility facility management, or transportation system design and maintenance.

Geography - Economic Geographer Track

Regional Planning - Economic Developer Track

The Economic Track provides a broad framework of ideas and theories in addition to a task-oriented approach to location analysis. Site planners articulate the needs of the community for economic space, the demands for convenient transport, the role of private enterprise, and the management of growth. This interrelated group of courses is useful to students, because economic geographers and developers are expected to analyze the interactions of concepts and variables. Market analysis for the location of new shopping centers, for example, requires understanding of economic principles, population characteristics, and the local political milieu, all in a spatial context.

Geography - Environmental Geographer Track

Regional Planning - Environmental Planner Track

The Environmental Track is designed to prepare majors in geography or regional planning for careers in environmental fields or graduate study that leads to a variety of environmental positions. Students who elect this track will acquire knowledge of the physical and human processes that shape the environment, strategies for analyzing environmental issues, and concepts that underlie strategies for ameliorating environmental problems. The skills acquired in this track will enable students to assess the causes, consequences, and solutions to a wide variety of environmental issues such as water pollution, acid rain, or tropical deforestation.

Regional Planning - Town Manager Track

The Town Manager Track is designed to prepare planning students for careers in local government and graduate work in public administration. Students electing this track will become familiar with the structure, operation, and actions of municipal government and the political, organizational, and institutional basis of municipal management and decision making. Skills acquired with this track will enable students to undertake a variety of analytic activities designed to describe, project, and prescribe courses of action for municipal improvement.

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The College of Humanities and Social Sciences

Bachelor of Arts-Geography/General Geography Track

Liberal Studies: As outlined in Liberal Studies section **54-58**

with the following specifications:

Mathematics: [MA121](#) or [MA217](#)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#), (recommended), No courses with GE prefix.

College:

Foreign Language Intermediate Level (1) **0-6**

Major: **36**

Required courses:

GE213	Cartography I	3sh
GE230	Cultural Geography	3sh
GE231	Economic Geography	3sh
GE241	Physical Geography	3sh
GE411	History of Geography	3sh
GE412	Research Seminar	3sh

Controlled electives:

One course from [GE251-GE257](#) **3sh**

Five courses (15 sh) from any GE courses

[only one GE 100 level permitted] **15sh**

Free Electives: **30-34**

Total Degree Requirements: **124**

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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The College of Humanities and Social Sciences

Bachelor of Arts-Geography/GIS & Cartographer Track

Liberal Studies: As outlined in Liberal Studies section 54-58

with the following specifications:

Mathematics: [MA121](#) or [MA217](#)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#), recommended,
no courses with GE prefix

College:

Foreign Language Intermediate Level (1) 0-6

Major: 36

Required courses:

GE213	Cartography I	3sh
GE230	Cultural Geography	3sh
GE231	Economic Geography	3sh
GE241	Physical Geography	3sh
GE411	History of Geography	3sh
GE412	Research Seminar	3sh

Controlled elective:

One course from [GE251-GE257](#) 3sh

Track Courses:

GE313	Cartography II	3sh
GE314	Map and Photograph Interpretation	3sh
GE316	Introduction to GIS	3sh
GE415	Remote Sensing	3sh
GE417	GIS Applications Development	3sh

Free Electives: 30-34

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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The College of Humanities and Social Sciences

Bachelor of Science--Regional Planning/GIS & Cartographer Track

Liberal Studies: As outlined in Liberal Studies section 54-58

with the following specifications:

Mathematics: [MA121](#) or [MA217](#)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#), recommended,
no courses with RP prefix

College:

Foreign Language Intermediate Level (1) 0-6

Major: 39

Required courses in Planning:

RP213	Cartography I	3sh
RP316	Introduction to GIS	3sh
RP350	Introduction to Planning	3sh
RP352	Planning Methods	3sh
RP354	Planning Design	3sh
RP412	Research Seminar	3sh
RP458	Land Use Law	3sh
RP464	Land Use Policy	3sh
RP468	Planning Theory	3sh

Track Courses:

RP313	Cartography II	3sh
RP314	Map and Photograph Interpretation	3sh
RP415	Remote Sensing	3sh
RP417	GIS Applications Development	3sh

Other Requirements:

Internship ([RP493](#)) strongly recommended 3-12

Free Electives:

27-31

Total Degree Requirements:

124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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The College of Humanities and Social Sciences

Bachelor of Arts--Geography/Economic Geographer Track

Liberal Studies: As outlined in Liberal Studies section 54-58

with the following specifications:

Mathematics: [MA121](#) or [MA217](#)

Social Sciences: [EC121](#)

Liberal Studies electives: [EC122](#), no courses with GE prefix

College:

Foreign Language Intermediate Level (1) 0-6

Major: 36

Required courses:

GE213	Cartography I	3sh
GE230	Cultural Geography	3sh
GE231	Economic Geography	3sh
GE241	Physical Geography	3sh
GE411	History of Geography	3sh
GE412	Research Seminar	3sh

Controlled elective:

One course from [GE251-GE257](#) 3sh

Track Courses:

GE331	Population Geography	3sh
GE332	Urban Geography	3sh
GE333	Trade and Transportation	3sh
GE334	Political Geography	3sh
GE464	Land Use Policy	3sh

Free Electives: 30-34

[EC383](#) Urban/Regional Economics recommended

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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The College of Humanities and Social Sciences

Bachelor of Science--Regional Planning/Economic Developer Track

Liberal Studies: As outlined in Liberal Studies section 54-58

with the following specifications:

Mathematics: [MA121](#) or [MA217](#)

Social Sciences: [EC121](#)

Liberal Studies electives: [EC122](#), no courses with GE prefix

College:

Foreign Language Intermediate Level (1) 0-6

Major: 36

Required courses:

RP213	Cartography I	3sh
RP316	Introduction to GIS	3sh
RP350	Introduction to Planning	3sh
RP352	Planning Methods	3sh
RP354	Planning Design	3sh
RP412	Research Seminar	3sh
RP458	Land Use Law	3sh
RP464	Land Use Policy	3sh
RP468	Planning Theory	3sh

Track courses: Four of the following:

GE231	Economic Geography	3sh
GE331	Population Geography	3sh
GE332	Urban Geography	3sh
GE333	Trade and Transportation	3sh
GE334	Political Geography	3sh

Other Requirements:

Internship ([RP493](#)) strongly recommended 3-12

Free Electives: 27-31

[EC383](#) Urban/Regional Economics recommended

Total Degree Requirements: 124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:35 AM on 7/26/97

The College of Humanities and Social Sciences

Bachelor of Arts--Geography/Environmental Geographer Track

Liberal Studies: As outlined in Liberal Studies section 54-55

with the following specifications:

Mathematics: [MA121](#) or [MA217](#)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#), recommended,
no courses with GE prefix

College:

Foreign Language Intermediate Level (1) 0-6

Major: 36

Required courses:

GE213	Cartography I	3sh
GE230	Cultural Geography	3sh
GE231	Economic Geography	3sh
GE241	Physical Geography	3sh
GE411	History of Geography	3sh
GE412	Research Seminar	3sh

Controlled elective:

One course from GE 251-257 3sh

Track Courses:

Five of the following:

GE314	Map and Photograph Interpretation	3sh
GE316	Introduction to GIS	3sh
GE340	Fresh Water Resources	3sh
GE341	Climatology	3sh
GE342	Physiography	3sh
GE415	Remote Sensing	3sh
GE440	Conservation: Environmental Analysis	3sh

Free Electives:

30-34

Total Degree Requirements:

124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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The College of Humanities and Social Sciences

Bachelor of Science--Regional Planning/Environmental Planner Track

Liberal Studies: As outlined in Liberal Studies section 54-58

with the following specifications:

Mathematics: [MA121](#) or [MA217](#)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#), recommended,
no courses with RP prefix

College:

Foreign Language Intermediate Level (1) 0-6

Major: 39

Required courses in Planning:

RP213	Cartography I	3sh
RP316	Introduction to GIS	3sh
RP350	Introduction to Planning	3sh
RP352	Planning Methods	3sh
RP354	Planning Design	3sh
RP412	Research Seminar	3sh
RP458	Land Use Law	3sh
RP464	Land Use Policy	3sh
RP468	Planning Theory	3sh

Track Courses:

Four of the following:

RP314	Map and Photograph Interpretation	3sh
GE340	Fresh Water Resources	3sh
GE341	Climatology	3sh
GE342	Physiography	3sh
RP415	Remote Sensing	3sh
GE440	Conservation: Environmental Analysis	3sh

Other Requirements:

Internship ([RP493](#)) strongly recommended 3-12

Free Electives: 27-31

Total Degree Requirements: 124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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The College of Humanities and Social Sciences

Bachelor of Science--Regional Planning/Town Manager Track

Liberal Studies: As outlined in Liberal Studies section 54-58

with the following specifications:

Mathematics: [MA121](#) or [MA217](#)

Social Science: PS111 recommended

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#), recommended,

no courses with RP prefix

College:

Foreign Language Intermediate Level (1) 0-6

Major: 39

Required courses in Planning:

RP213	Cartography I	3sh
RP316	Introduction to GIS	3sh
RP350	Introduction to Planning	3sh
RP352	Planning Methods	3sh
RP354	Planning Design	3sh
RP412	Research Seminar	3sh
RP458	Land Use Law	3sh
RP464	Land Use Policy	3sh
RP468	Planning Theory	3sh

Track Courses:

GE231	Economic Geography	3sh
RP332	Urban Geography	3sh
PS354/	Metropolitan Problems/	3sh
PS355	Intergovernmental Relations or	3sh
PS370/	Introduction to Public Administration/	3sh
PS371	Issues in Public Administration	3sh

Other Requirements:

Internship ([RP493](#)) strongly recommended

3-12

Free Electives:

27-31

[PS251](#) State and Local Political Systems recommended

Total Degree Requirements:

124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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The College of Humanities and Social Sciences

Bachelor of Science in Education Social Science Education/Geography Track

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Social Science: [GE102](#), [PC101](#), [EC121](#)

Liberal Studies electives: [EC122](#), [S0337](#),

and one of the following [AN271-AN274](#) ([S0271-S0274](#))

College: 30

Professional Education sequence: (1)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
ED455	Teaching of Social Sciences in the Secondary School	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurement	3sh
FE202	American Education in Theory and Practice	3sh

Major: 24

Required courses:

GE230	Cultural Geography	3sh
GE241	Physical Geography	3sh

Controlled electives:

At least one course from each of the following three groups:

Environmental Geography:

GE340	Geography of Freshwater Resources	3sh
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GE341	Climatology	3sh
GE342	Physiography	3sh
GE440	Conservation: Environmental Analysis	3sh

Human Geography:

GE231	Economic Geography	3sh
GE331	Population Geography	3sh
GE332	Urban Geography	3sh
GE333	Trade and Transportation	3sh
GE334	Political Geography	3sh
GE336	Social Geography	3sh
GE337	Historical Geography	3sh
GE431	Geography of the American Indians	3sh

History, Tools, and Techniques:

GE213	Cartography I	3sh
GE314	Map and Photo Interpretation	3sh
GE411	History of Geography	3sh
GE412	Research Seminar	3sh
GE415	Remote Sensing	3sh

Two of the following regional geography courses:

GE251	Geography of Pennsylvania	3sh
GE252	Geography of Latin America	3sh
GE253	Geography of Europe	3sh
GE254	Geography of Soviet Sphere	3sh
GE255	Geography of Africa	3sh
GE256	Geography of East Asia	3sh
GE257	Geography of South and Southeast Asia	3sh

Geography Electives 3sh

Social science distribution requirements: 15-18

The following courses are required:

PS280	Comparative Government I	3sh
HI203	U.S. History for Historians	3sh

Plus one of the following options: 9-12

1. 6 additional hours in one social science field (history recommended) and three semester hours in another.
2. 9-12 additional hours in one social science field (history recommended), sufficient to meet the requirements for a minor.

Other Requirements:	0
Free Electives:	0-14
Total Degree Requirements:	124

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified on Fri Oct 4 13:52:35 1996

The College of Humanities and Social Sciences

Department of German

Jacob U. Voelker, Chairperson; Brode, Ready, Sommer, Sullivan

The Department of German offers three degree programs: the B.A. in German, the B.A. in German for International Trade, and the B.S. in Education in Secondary German Education.

While majoring in the German Department, students will acquire proficiency in all phases of the language and develop an understanding and appreciation of the history, culture, and literature of the German-speaking countries. They will also gain knowledge of the linguistic development of the language throughout the centuries. German majors may look forward to rewarding careers in teaching, government, journalism, foreign trade, tourism, business, and librarianship.

The degree program in German for International Trade provides an excellent way to combine language proficiency and cultural awareness in German with professional training in business. With this undergraduate background, students may enter M.B.A. degree programs and pursue careers in international business and trade. Study abroad for one or two semesters is strongly urged and is an integral part of the program. Qualified students may also choose to participate in internship programs with German-based corporations and financial institutions.

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The College of Humanities and Social Sciences

College Language Requirements

Students in the departments of the College of Humanities and Social Sciences and in most departments of the College of Natural Sciences and Mathematics must pass the intermediate sequence of a foreign language ([GM251](#) and [GM252](#)) or demonstrate by the CLEP exam in German that they have acquired the equivalent proficiency level. Students from the other colleges may elect to take two courses in German at the intermediate (III/IV) level toward fulfilling the requirement for Liberal Studies electives. Any student who chooses German can meet the requirement through enrollment in the traditional, three-credit courses or in the combined six-credit courses.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:56 AM on 7/26/97

The College of Humanities and Social Sciences

Study Abroad

The Department of German encourages all students who study German at IUP to consider study abroad for one or two semesters. German majors are strongly urged to study two semesters or one academic year at a German university. To provide this opportunity at a relatively modest cost, the university has arranged an exchange of students between Duisburg University and IUP. By participating in this or other approved programs, students can earn from twelve to fourteen hours per semester. For further information regarding the cost and application procedures, contact the office of the dean of the college.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:57 AM on 7/26/97

The College of Humanities and Social Sciences

Bachelor of Arts-German

Liberal Studies: 53-55

As outlined in Liberal Studies section
with the following specifications:

Liberal Studies electives: no courses with GM prefix

College: 0

Foreign language (included in major)

Major: 36

Required courses:

GM221	Conversation III	2sh
GM251	German III	3sh
GM252	German IV (1)	3sh
GM222	Conversation IV	2sh
GM321	Advanced Conversation I	1sh
GM322	Advanced Conversation II	1sh
GM351	Advanced German I	3sh
GM352	Advanced German II	3sh
GM361	Development of German Culture and Literature I	3sh
GM362	Development of German Culture and Literature II	3sh

Controlled electives:

Other GM electives (advanced levels) 12sh (2)

Other Requirements: 0

Free Electives: 33-35

Total Degree Requirements: 124

(1) [GM253](#) or [GM254](#) may be substituted for [GM252](#).

(2) Department recommends at least one additional literature course ([GM363-GM371](#)) and one linguistics course ([GM410](#) or in Germany).

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:17 AM on 7/26/97

The College of Humanities and Social Sciences

Bachelor of Arts-German for International Trade

Liberal Studies: As outlined in Liberal Studies section 54-56

with the following specifications:

Mathematics: [MA121](#)

Social Science: [EC121](#)

Liberal Studies electives: [MA214](#),

no courses with GM prefix

College: 0

Foreign language (included in major)

Major: 36

Required courses:

GM221	Conversation III	2sh
GM222	Conversation IV	2sh
GM251	German III	3sh
GM252	German IV	3sh
GM253	Intermediate Composition and Conversation	3sh
GM254	Business German	3sh
GM321	Advanced Conversation I	1sh
GM322	Advanced Conversation II	1sh
GM351	Advanced German I	3sh
GM352	Advanced German II	3sh
GM361	Development of German Culture and Literature I	3sh
GM362	Development of German Culture and Literature II	3sh

Controlled electives:

Two additional GM electives (advanced levels) 6sh (1)

Other Requirements: Business sequence: 33

[BL235](#) Introduction to Business Law 3sh

[AD321](#) Business and Interpersonal Communications 3sh

AG201	Accounting Principles I	3sh
AG202	Accounting Principles II	3sh
EC122	Principles of Economics II	3sh
QB215	Business Statistics	3sh
IM300	Information Systems: Theory and Practice	3sh
FI310	Finance I	3sh
MG311	Human Behavior in Organizations	3sh
MG360	Management and Production Concepts	3sh
MK320	Principles of Marketing	3sh

Free Electives: 0-1

Total Degree Requirements: 124

(1) Most students earn additional language credits (usually 12-14) in semester study abroad.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:21 AM on 7/26/97

The College of Humanities and Social Sciences

Bachelor of Science in Education-Secondary German Education (*)

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Social Science: [PC101](#)

Liberal Studies electives: no courses with GM prefix

College: 30

Professional Education sequence: (1)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
ED453	Teaching of Foreign Languages in the Secondary School	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurement	3sh
FE202	American Education in Theory and Practice	3sh

Major: 33

Required courses:

GM221	Conversation III	2sh
GM222	Conversation IV	2sh
GM251	German III	3sh
GM252	German IV	3sh (2)
GM321	Advanced Conversation I	1sh
GM322	Advanced Conversation II	1sh
GM351	Advanced German I	3sh
GM352	Advanced German II	3sh
GM361	Development of German Culture and Literature I	3sh
GM362	Development of German Culture and Literature II	3sh

Controlled electives:

Other GM electives 9sh

Other Requirements: 0

Free Electives: 6-8

Total Degree Requirements: 124

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

(2) [GM253](#) may be substituted for or taken in addition to [GM252](#).

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:23 AM on 7/26/97

The College of Humanities and Social Sciences

Minor in German

Students completing eighteen credits beyond [GM152](#) will be recognized as having minored in German. Nine of the twelve credits must be taken at the 300 level with only three credits from the conversation sequence, GM221, 222, 321, 322. This achievement will be noted on the student's transcript and thus provide more career flexibility.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:24 AM on 7/26/97

The College of Humanities and Social Sciences

Department of History

Neil B. Lehman, Chairperson; Bailey, Botelho, Cashdollar, Kadlubowski, Landon, Larner, Marcus, McDonough, Miller, Shissler, Smith, Vogel, Wagner, Wang, Whited, Wiley; and professors emeriti Cord, Gallanar, Gelbach, Goodrich, Hatfield, Mastro, Mervine, Moore, Oliver, Rife

Programs in history are designed to give both those who major in history in the College of Humanities and Social Sciences and those who concentrate in history in the College of Education an opportunity to study in some depth the past story of peoples and their world. Degrees offered by the History Department are the Bachelor of Arts in History and the Bachelor of Science in Education with a major in Social Studies, concentrating in history. The first program is under the College of Humanities and Social Sciences, and the second is under the College of Education.

The history student will find that the program is excellent preparation for government service, for pre-law training, for broad business opportunities, for work in varied fields of journalism, for archival positions, and for teaching. Not only the story of the people of the United States but also that of other peoples is covered, in the belief that global historical understanding is essential for the future of civilization.

Requirements for the degree of Bachelor of Arts in History are 33 semester hours in history. Requirements for the degree of Bachelor of Science in Education with a major in Social Studies, concentrating on history, are a minimum of 27 semester hours in history within the 54 semester hours required for social science certification. The requirement for a minor in history is 15 semester hours of courses with an HI prefix. For majors in history programs, courses in history in Liberal Studies are applicable only if numbered 300 or higher. All programs should be planned with an advisor. Every major and concentrate in history will be advised by History Department staff members.

Admission to HI482 and 483, initiation in the local chapters of Phi Alpha Theta and Pi Gamma Mu, participation in study tours and study abroad programs, and other activities should be investigated by every history student. The department is committed to the ideal of a broad liberal arts education.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:25 AM on 7/26/97

The College of Humanities and Social Sciences

Bachelor of Arts-History

Liberal Studies: As outlined in Liberal Studies section **50-52**

with the following specifications:

Liberal Studies electives: no courses with HI prefix

Humanities-History: Fulfilled by required courses in major

College: **0-6**

Foreign Language Intermediate Level (1)

Major: **33**

Required courses:

HI200	Introduction to History	3sh
HI201	Western Civilization Before 1600	3sh (2)
HI202	Western Civilization Since 1600	3sh (2)
HI203	U.S. History for Historians	3sh (2)

Controlled electives:

HI480	Senior Seminar (3)	3sh
Non-Western HI course: Latin America, Africa, or Asia		3sh
Five additional history courses (4)		15sh

Other Requirements: **0**

Free Electives: **33-41**

Total Degree Requirements: **124**

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

(2) For students who have taken [HI195](#), [HI210](#), [HI212](#), or [HI214](#) prior to becoming History majors, this course may not be appropriate. Consult History advisor before scheduling.

(3) This requirement may be fulfilled by completing either the departmental honors program or graduate seminar with

a concluding paper.

(4) Courses selected from 300 and 400 level offerings; no more than six credits from [HI493](#) as major elective.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:55 AM on 7/26/97

The College of Humanities and Social Sciences

Bachelor of Arts-History/Pre-law

Liberal Studies: As outlined in Liberal Studies section 50-52

with the following specifications:

Liberal Studies electives: no courses with HI prefix

Humanities-History: Fulfilled by required courses in major

College: 0-6

Foreign Language Intermediate Level (1)

Major: 33

Required courses:

HI200	Introduction to History	3sh
HI201	Western Civilization Before 1600	3sh (2)
HI202	Western Civilization Since 1600	3sh (2)
HI203	U.S. History for Historians	3sh (2)

Controlled electives:

HI480	Senior Seminar (3)	3sh
Non-Western HI course: Latin America, Africa, or Asia		3sh
Five additional history courses (4)		15sh

Other Requirements: Pre-law Interdisciplinary Minor 3-21

Seven courses, including at least one from each of six areas:

Business: [BL235](#), [AG201](#), [AG202](#)

Criminology: [CR210](#), [CR260](#), [CR357](#)

Economics: [EC121](#), [EC122](#), [EC332](#)

English: [EN212](#), [EN220](#), [EN310](#)

Philosophy: [PH101](#), [PH222](#), [PH450](#)

Political Science: [PS358](#), [PS359](#), [PS361](#)

Free Electives: 12-32

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
 - (2) For students who have taken [HI195](#), [HI210](#), [HI212](#), or [HI214](#) prior to becoming History majors, this course may not be appropriate. Consult History adviser before scheduling.
 - (3) This requirement may be fulfilled by completing either the departmental honors program or graduate seminar with a concluding paper.
 - (4) Courses selected from 300 and 400 level offerings; no more than six credits from [HI493](#)
-

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:57 AM on 7/26/97

The College of Humanities and Social Sciences

Bachelor of Science in Education-Social Science Education/History Track (*)

Liberal Studies: As outlined in Liberal Studies section

with the following specifications:

51-52

Humanities-History: Fulfilled by required courses in major

Social Science: [PC101](#), [EC121](#), and [AN110](#)

Liberal Studies electives: [EC122](#), [GE230](#),

and either [SO337](#) or [SO362](#); no courses with HI prefix

College:

30

Professional Education sequence: (1)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching and Clinical Experience I	1sh
ED342	Pre-student Teaching and Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
ED455	Teaching of Social Sciences in the Secondary School	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh
FE202	American Education in Theory and Practice	3sh

Major: (2)

27

Required History courses:

HI200	Introduction to History	3sh
HI201	Western Civilization Before 1600	3sh (3)
HI202	Western Civilization Since 1600	3sh (3)
HI203	United States History for Historians	3sh (3)
HI480	Senior Seminar in History	3sh

Controlled History elective:

One course from the fields of Middle East, Africa, Asia, or Latin America at the 300 level or higher 3sh

History electives:

Three history courses at the 300 level or higher, one to be from United States history 9sh

Required Social Science distribution: 9-12

GEXXX	200-level or higher Geography course	3sh
PS111	American Politics	3sh
PS280	Comparative Government I: Western Political Systems or	3sh
PS285	Comparative Government II: Non-Western Political Systems	3sh
SO231	Contemporary Social Problems	3sh (4)

Free Electives: 3-7

Total Degree Requirements: 124

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

(2) Students entering secondary social studies education must present the following in order to gain admission:

- a. A 2.75 QPA with grades of C or better in history and social science courses required for certification.
- b. A letter of admission to teacher certification from the College of Education.

(3) For students who have taken [HI195](#), [HI210](#), [HI212](#), or [HI214](#) prior to becoming History majors, this course may not be appropriate. Consult History adviser before scheduling.

(4) [SO231](#) required only if [SO237](#) or [SO362](#) are not taken as Liberal Studies electives.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 12:00 PM on 7/26/97

The College of Humanities and Social Sciences

Department of Journalism

Stanford G. Mukasa, Chairperson; Heilman, Jesick, Mukasa, Russell; and professors emeriti Furgiuele, Swauger, Truby

Students interested in a career in news-editorial or public relations fields, with opportunities in such related areas as advertising, desktop publishing, computer-assisted reporting, and marketing, should enjoy this innovative, flexible program. The journalism major combines journalism elective courses, the student's choice of a variety of courses from other university departments, plus internships which provide on-the-job experience.

The IUP journalism major is flexible for the individual student, who decides, with an advisor, what directions his or her education will take for a mass communication career. The two sequences offered are News-Editorial and Public Relations.

A student wishing to enter the program becomes a journalism major in the College of Humanities and Social Sciences. Then, the student chooses an individual program within a large group of elective journalism courses, plus a much larger group of courses from various other areas of the university. A student who completes the major graduates with a B.A. in Journalism. Because journalism itself covers all areas of life, the journalism major covers many areas of study preparation. There are only four required courses, so the student is free to mold the program to his/her own special interests through both major and free electives.

The journalism major will use journalism courses to fulfill the minimum of 30 hours required for the major. All journalism majors must complete the intermediate sequence of a foreign language. This may be done in one of three ways: by examination, by earning credit in third and fourth levels of a foreign language, or by completing four levels of a new language. If the last procedure is used, the two beginning foreign language courses may be applied as free electives to the total number of credits needed for graduation.

The Department of Journalism offers an eighteen-credit minor designed to complement any major. Three three-credit courses are required: [JN105](#): Journalism and Mass Media; [JN102](#): Basic Journalistic Skills; and [JN120](#): Journalistic Writing. The remaining nine credits may be taken from the following list of Journalism major courses: [JN326](#), [JN338](#), [JN344](#), [JN347](#), [JN375](#), and designated Special Topics courses. Internship credits do not apply toward the eighteen-credit minor; however, a student in the minor program may take an internship and apply the credits as free electives.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 12:03 PM on 7/26/97

The College of Humanities and Social Sciences

Course Sequence

The journalism faculty offers the following operational policy for its course sequence and prerequisites. The basic idea is for students to take Level I courses prior to Level II courses, etc. We ask that special attention be given to course prerequisites to avoid scheduling students without proper experience into courses. We do retain flexibility of waiving sequence and prerequisites in individual cases.

Level I

JN102	Basic Journalism Skills (required for all journalism majors and minors)
JN105	Journalism and Mass Media (required for all journalism majors and minors)
JN120	Journalistic Writing (for journalism minors and nonmajors)
JN220	Writing for the Print Media (required for all journalism majors)

Level II

JN243	History of American Press
JN250	Women and the Press
JN321	Feature Writing
JN326	Public Relations I
JN327	Layout, Design, and Production
JN328	News Reporting (required for all journalism majors)
JN337	Editing
JN344	Issues and Problems
JN345	Sports Journalism
JN375	World News Coverage
JN393	Document Design I

Level III

JN347	Journalism Law
JN348	Editorial Page
JN423	Management
JN430	Public Opinion and the News
JN446	Advanced Reporting
JN450	Advertising Writing
JN482	Independent Study

JN490	Public Relations II
JN491	Presentation Making
JN492	Problem Solving in PR
JN493	Internship
JN494	Document Design II

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 12:05 PM on 7/26/97

The College of Humanities and Social Sciences

Bachelor of Arts-Journalism

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Liberal Studies electives: no courses with JN prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 30

Required courses:

JN102	Basic Journalistic Skills	3sh
JN105	Journalism and the Mass Media	3sh
JN220	Writing for the Print Media	3sh
JN328	News Reporting	3sh

Controlled electives:

Other JN courses 18sh (2)

Other Requirements: 0

Department recommends a planned program of dual major,
minor(s), or electives. (3) (4)

Free Electives: 33-41

Total Degree Requirements: 124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

(2) Maximum of six credits Internship applied to major.

(3) Students may take no more than 15sh outside the College of Humanities and Social Sciences without prior approval of advisor.

(4) Majors in the public relations sequence should make every effort to schedule [MK320](#), [MK433](#), and [AD321](#).

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The College of Humanities and Social Sciences

Minor-Journalism (Implementation date: Fall, 1994)

Minor: 18 (1)

Required courses:

JN102	Basic Journalistic Skills	3sh (2)
JN105	Journalism and Mass Media	3sh (2)
JN120	Journalistic Writing	3sh (2)

Three controlled electives from following list: 9sh

[JN243](#), [JN326](#), [JN338](#), [JN344](#), [JN347](#), [JN375](#), [JN481](#)

- (1) Internship credits do not apply toward the eighteen-credit minor; however, a student in the minor program may take an internship and apply the credits as free electives.
(2) The above three courses are to be taken in sequence.

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1997-1998 Undergraduate Catalog
Indiana, Pennsylvania 15705

The College of Humanities and Social Sciences

Department of Philosophy and Religious Studies

Albert E. Bouffard, Chairperson; Begres, Boone, Caraway, Chan, Ferrara, Gibson, Lin, Mlecko, Montgomery, Schaub, Smith, Yirenkyi; and professors emeriti Hermann, Kannwisher Philosophy

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 12:09 PM on 7/26/97

The College of Humanities and Social Sciences

Philosophy

The program in philosophy is designed to provide the student with a capacity for thinking clearly, a critical attitude, and the ability to reason theoretically.

The major offers the background required for graduate work in philosophy. Those whose primary interests are in other disciplines will find philosophy courses which relate directly to their fields on a theoretical level. Both the minor and double major are especially desirable for their reflective benefits and because of the essentially interdisciplinary nature of philosophy.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 12:10 PM on 7/26/97

The College of Humanities and Social Sciences

Bachelor of Arts-Philosophy

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Liberal Studies electives: no courses with PH prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 30

Required courses:

PH221	Symbolic Logic I	3sh
PH222	Ethics	3sh
PH324	History of Philosophy I: Ancient and Medieval	3sh
PH325	History of Philosophy II:Renaissance and Modern	3sh
PH420	Metaphysics	3sh
PH421	Theory of Knowledge	3sh

Controlled electives:

Four other PH courses (with restrictions) (2) (3) 12sh

Other Requirements: 0

Free Electives: 33-41

Total Degree Requirements: 124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

(2) No more than three 100-200 level courses may be counted toward the major. Only PH courses may be counted toward the major. Unless otherwise indicated in the Course Descriptions, all 300-400 level courses require junior or senior standing or permission of the instructor. This prerequisite applies both to Philosophy majors and to majors in any other discipline.

(3) No more than nine non-classwork credits may be counted toward the major. Non-classwork credits include independent study, independent honors project, and internship in philosophy.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 12:12 PM on 7/26/97

The College of Humanities and Social Sciences

Bachelor of Arts-Philosophy/Pre-law

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Liberal Studies electives: no courses with PH prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 30

Required courses:

PH101	Informal Logic (or PH221 Symbolic Logic I)	3sh
PH222	Ethics	3sh
PH324	History of Philosophy I: Ancient and Medieval	3sh
PH325	History of Philosophy II:Renaissance and Modern	3sh
PH420	Metaphysics	3sh
PH421	Theory of Knowledge	3sh

Controlled electives:

Four other PH courses (with restrictions) (2) (3) 12sh

Other Requirements: Pre-law Interdisciplinary Sequence 6-21

Seven courses, including at least one
from each of six areas:

Business: [BL235](#), [AG201](#), [AG202](#)

Criminology: [CR201](#), [CR260](#), [CR357](#)

Economics: [EC121](#), [EC122](#), [EC332](#)

English: [EN212](#), [EN220](#), [EN310](#)

History: [HI320](#), [HI321](#), [HI346](#)

Political Science: [PS358](#), [PS359](#), [PS361](#)

Free Electives: 12-29

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
 - (2) No more than three 100-200 level courses may be counted toward the major. Only PH courses may be counted toward the major. Unless otherwise indicated in the Course Descriptions, all 300-400 level courses require junior or senior standing or permission of the instructor. This prerequisite applies both to Philosophy majors and to majors in any other discipline.
 - (3) No more than nine non-classwork credits may be counted toward the major. Non-classwork credits include independent study, independent honors project, and internship in philosophy.
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The College of Humanities and Social Sciences

Individually Designed Philosophy Minor

As a minor, philosophy has much to offer in helping individuals of various backgrounds better understand the fundamental assumptions of their disciplines. For that reason, the minor in Philosophy will be individually designed to meet special career needs and personal interests. Selection of courses will be accomplished through discussions with and approval of the department advisor. The minimum requirement for a minor is 15 semester hours with the restrictions on the major applying to the minor also, except that no more than three non-classwork credits may be counted toward the minor. Students must expect careful planning in any program approved. For further explanation and suggestions, see departmental advisor.

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The College of Humanities and Social Sciences

Liberal Studies Offerings

The Philosophy program's Liberal Studies courses are all introductory in nature; none of them presupposes any philosophical background. The student may choose from the following: [PH101](#): Informal Logic; [PH120](#): Introduction to Philosophy; [PH221](#): Introduction to Symbolic Logic; [PH222](#): Ethics; [PH223](#): Philosophy of Art.

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The College of Humanities and Social Sciences

Pre-Law Program

The Department of Philosophy and Religious Studies participates in the University Pre-Law Minor Program whereby a student majors in one of several academic disciplines including philosophy and also meets the pre-law minor requirements. Students interested in the philosophy major/pre-law minor should consult the departmental pre-law advisor. Philosophy courses included in the pre-law minor program are as follows: [PH101](#): Informal Logic; [PH222](#): Ethics; and [PH450](#): Philosophy of Law.

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The College of Humanities and Social Sciences

Religious Studies

The Program in Religious Studies is designed to provide a balanced, nonsectarian, cross-cultural approach leading to a better understanding of the phenomenon of religion in human experience. It emphasizes an interdisciplinary approach by a) requiring religion-related courses outside Religious Studies and by b) encouraging the minor or a double major, rather than a single major in Religious Studies.

The program is valuable for those planning careers in religious education, religious journalism, or religious broadcasting. The program also provides an excellent background for graduates planning to enter Catholic, Jewish, or Protestant seminaries. Additionally, Religious Studies is a good complement to majors in such fields as Anthropology, English, Fine Arts, History, International Studies, Music, Philosophy, Political Science, Psychology, and Sociology. Religious Studies is one significant way to integrate course studies within the university curriculum.

In addition to the 24 semester hours of Religious Studies courses in the major, 6 semester hours must be taken from a number of courses offered by other departments which complement those offered in Religious Studies. Opportunity for interdisciplinary and cross-cultural study is implicit in the study of religious themes and is required in the Religious Studies Program at IUP. Revisions are pending in the Religious Studies program.

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The College of Humanities and Social Sciences

Bachelor of Arts-Religious Studies

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Liberal Studies electives: no courses with RS prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 30

Controlled electives: (2)

One course from list A: [RS100](#) or [RS110](#) 3sh

One course from list B: [RS210](#) or [RS250](#) 3sh

One course from list C: [RS370](#) or [RS375](#) 3sh

One course from list D: [RS380](#), [RS410](#), or [RS440](#) 3sh

Four additional RS courses (3) 12sh

Two courses from religion-related courses (3) 6sh

Other Requirements: 0

Free Electives: 33-41

Total Degree Requirements: 124

(1) Intermediate-level Foreign Language may be included in the Liberal Studies electives.

(2) Other courses may be approved in consultation with advisor.

(3) Consult Religious Studies advisor.

The College of Humanities and Social Sciences

Minor--Religious Studies

The requirements for a Minor in Religious Studies are 15sh:

1. 12sh must be taken from the Religious Studies offerings, which include certain required courses (see below).
2. 3sh must be taken outside the Religious Studies offering but in "religion-related" courses.
3. No more than three non-classwork credits may count toward minor.

Consult advisor in Religious Studies for choices.

RS100 or RS110	3sh
RS370 or RS375	3sh
RS380 or RS410 or RS440	3sh
Elective in Religious Studies (1)	3sh
Religion-related course (1)	3sh

(1) Consult Religious Studies advisor.

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The College of Humanities and Social Sciences

Liberal Studies Offerings

The Religious Studies program's Liberal Studies courses are all introductory in nature; none presupposes any Religious Studies background. The student may choose from the following: [RS100](#): Introduction to Religion; [RS250](#): Understanding the Bible; [RS290](#): Christianity.

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The College of Humanities and Social Sciences

Department of Political Science

David D. Chambers, Chairperson; Bahgat, Dejene, Kuffner-Hirt, Jackson, Keene, Palmer, Platt, Sitton; and professors emeriti Chaszar, Lee, Smith

Political scientists focus upon political systems, including the effect of environment on the system, inputs, the decision-making agencies which render binding public policies, and system outputs. Approaches to the study of government and politics include the normative approach, in which philosophical attention centers on values by asking the question "What ought to be?" and the behavioral approach, in which an attempt is made to develop verifiable theories through scientific methods by asking the questions "How" and "Why?"

Students majoring in political science have employment opportunities in federal, state, and local governments and with private civic groups, interest groups, and political groups. Students who go on to graduate work find appointments at higher levels and in college teaching. Students graduating in political science, as in any of the social sciences, are in demand by employers in business and industry. Students completing the Political Science Internship Program have experienced considerable success in finding employment upon graduation. The political science major is also especially suitable for the pre-law student.

Degrees offered by the Political Science Department are the Bachelor of Arts in Political Science, in Government and Public Service, and in Political Science Pre-Law. An interdisciplinary major and a minor in International Studies are sponsored by the Political Science Department. The department also offers a minor in political science.

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The College of Humanities and Social Sciences

Bachelor of Arts-Political Science

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Social Science: [PS111](#)

Liberal Studies electives: no courses with PS prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 33

Required courses:

[PS101](#) World Politics 3sh (2)

[PS111](#) American Politics *sh (3)

Controlled electives: 30sh

At least one course in three of first four areas:

American Studies: [PS251](#), [PS300](#), [PS346](#), [PS350](#), [PS351](#),

[PS353](#), [PS354](#), [PS355](#), [PS356](#), [PS357](#), [PS358](#), [PS359](#)

Political Theory: [PS360](#), [PS361](#), [PS362](#)

Public Policy and Administration: [PS250](#), [PS370](#), [PS371](#), [PS444](#)

International Studies: [PS280](#), [PS282](#), [PS283](#), [PS285](#), [PS320](#),

[PS321](#), [PS380](#), [PS382](#), [PS383](#), [PS384](#), [PS385](#), [PS386](#), [PS387](#),

[PS388](#), [PS389](#) (4)

General Political Science: [PS300](#) (strongly recommended),

[PS377](#), [PS480](#), [PS481](#), [PS482](#), [PS485](#), [PS493](#)

Other Requirements: 15-27

Second major, minor, or concentration as approved by advisor
with maximum of 15 credits outside College of Humanities and
Social Sciences unless specifically approved

Free Electives:

3-23

Total Degree Requirements:

124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
 - (2) [PS101](#) satisfies non-Western requirement.
 - (3) Credit for [PS111](#) is counted in the Liberal Studies requirements.
 - (4) [PS280](#) and/or [PS285](#) recommended as prerequisite to [PS380](#) through [PS389](#).
-

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The College of Humanities and Social Sciences

Bachelor of Arts-Political Science/Pre-Law

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Social Science: [PS111](#)

Liberal Studies electives: no courses with PS prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 33

Required courses:

[PS101](#) World Politics 3sh (2)

[PS111](#) American Politics *sh (3)

Controlled electives: 30sh

At least one course in three of first four areas:

American Studies: [PS251](#), [PS300](#), [PS346](#), [PS350](#),
[PS351](#), [PS353](#), [PS354](#), [PS355](#), [PS356](#), [PS357](#), [PS358](#), [PS359](#)

Political Theory: [PS360](#), [PS361](#), [PS362](#)

Public Policy and Administration: [PS250](#), [PS370](#), [PS371](#), [PS444](#)

International Studies: [PS280](#), [PS282](#), [PS283](#), [PS285](#),
[PS320](#), [PS321](#), [PS380](#), [PS382](#), [PS383](#), [PS384](#), [PS385](#), [PS386](#),
[PS387](#), [PS388](#), [PS389](#) (4)

General Political Science: [PS300](#) (strongly recommended),
[PS377](#), [PS480](#), [PS481](#), [PS482](#), [PS485](#), [PS493](#)

Other Requirements: Pre-law interdisciplinary minor 15-21

Seven courses, including at least one

from each of six areas:

Business: [BL235](#), [AG201](#), [AG202](#)

Criminology: [CR210](#), [CR260](#), [CR357](#)

Economics: [EC121](#), [EC122](#), [EC332](#)

English: [EN212](#), [EN220](#), [EN310](#)

History: [HI320](#), [HI321](#), [HI346](#)

Philosophy: [PH101](#), [PH222](#), [PH450](#)

Free Electives: 12-26

Total Degree Requirements: 124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) [PS101](#) satisfies non-Western requirement.
- (3) Credit for [PS111](#) is counted in the Liberal Studies requirements.
- (4) [PS280](#) and/or [PS285](#) recommended as prerequisite to [PS380](#) through [PS389](#).

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The College of Humanities and Social Sciences

Bachelor of Arts-Government and Public Service

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Mathematics: [MA217](#)

Social Science: [EC121](#), [PC101](#), [SO151](#)

Liberal Studies electives: [CO101](#),

no courses with PS prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 39

Required courses:

PS111	American Politics	3sh
PS250	Public Policy	3sh
PS251	State and Local Political Systems	3sh
PS300	Research and Methods in Political Science	3sh
PS370	Introduction to Public Administration	3sh
PS371	Issues in Public Administration	3sh
PC330	Social Psychology	3sh
EC335	Public Finance	3sh (2)
EC336	State and Local Finance	3sh (2)
SO458	Political Sociology	3sh (3)

Controlled electives: 9sh

Three courses from list: [PS350](#), [PS351](#), [PS352](#),
[PS353](#), [PS354](#), [PS355](#), [PS358](#), [PS377](#), [PS444](#), [PS481](#),
[PS482](#), [PS485](#), [PS493](#)

Other Requirements: 21

One course from communications areas 3sh
(English, Journalism, Communications Media)

as approved by advisor

Interdisciplinary minor: Government Management, Planning

Personnel Administration, Financial Administration 18sh

Free Electives: 3-11

Total Degree Requirements: 124

(1) Intermediate-level Foreign Language may be included in the Liberal Studies electives.

(2) Approved substitutes for [EC335](#) and [EC336](#): [EC283](#), [EC332](#), [EC333](#), [EC373](#).

(3) Approved substitutes for [SO458](#): [SO335](#), [SO345](#), [SO303](#).

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 1:33 PM on 7/26/97

The College of Humanities and Social Sciences

Bachelor of Arts-Political Science/International Studies

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Social Science: [PS111](#)

Liberal Studies electives: no courses with PS prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 33

Required courses:

[PS101](#) World Politics 3sh

[PS111](#) American Politics *sh (2)

Interdisciplinary sequence 15sh (3)

Cultural specialization sequence 15sh (4)

Other Requirements: 0 (5)

Free Electives: 30-38

Total Degree Requirements: 124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives. Only courses 300 level and beyond may count in the cultural specialization sequence.

(2) Credit for [PS111](#) is included with Liberal Studies.

(3) The interdisciplinary sequence includes an introductory or comparative international course from each of five social science disciplines: anthropology, economics, geography, history, political science, and sociology. Selection depends on goal(s) of major and should be planned in consultation with the International Studies advisor.

(4) The specialization sequence focuses on one area or culture and three disciplines: economic systems, political systems, language, literature, history, geography. Currently, three specializations are offered: Latin America, the Far East, and Soviet Studies. Consult with advisor for planning course selection.

(5) Majors are strongly encouraged to take advantage of the study abroad opportunities available through IUP

department programs and exchange opportunities available through the Center for International Studies.

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The College of Humanities and Social Sciences

Minor-Political Science

Minor 15

Required courses:

[PS101](#) World Politics 3sh

[PS111](#) American Politics 3sh

Controlled electives:

Three additional PS courses 9sh

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The College of Humanities and Social Sciences

Minor-International Studies

Minor 18

Required courses:

PS101	World Politics	3sh
PS111	American Politics	*sh (1)

Controlled electives:

Interdisciplinary sequence (see major) 15sh

(1) Credit counted with Liberal Studies Social Sciences.

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The College of Humanities and Social Sciences

Department of Sociology

Herbert M. Hunter, Chairperson; Ackerman, Chang, Darling, Gondolf, Grant, Heckert, Holtz, Nowak, Rawleigh, Reynolds, Sanderson, Snyder

The Department of Sociology seeks to develop both the scientific and humanistic foundations of sociology, to educate the wider community as to the significance of sociological knowledge, to apply sociological knowledge to current social problems, and to advance the profession by promoting the welfare of individuals and society. The discipline of sociology focuses primarily on the analysis of modern industrial societies by examining their basic patterns of social organization, the various changes that occur within these patterns, and the impact of the patterns on individual thought and action. Students are prepared for employment in human service fields or for graduate study in sociology or related fields.

Students majoring in sociology may select one of three tracks: General Sociology, Clinical Sociology, and Applied Social Research. The general track attempts to broadly educate those students who may wish to pursue graduate training in sociology and make sociology a career and profession. Because of its flexibility, it is also appropriate for students who want to pursue double majors that would include such fields as psychology or criminology. The general track gives students the broadest possible training in sociology. Students graduating with majors in general sociology often find employment in business, industry, and government.

The clinical track in sociology seeks to help students understand the causes of many of the problems that plague modern societies, such as poverty, racial discrimination, substance abuse, and domestic violence. It is designed to provide students with the knowledge and skills necessary to become practitioners in various human services areas (e.g., juvenile delinquency, medical sociology, gerontology, and interpersonal dynamics and family sociology).

The applied social research track emphasizes the development of research and assessment skills in students. Such skills are important in carrying out program assessments, needs assessments, program development, and other activities that focus on gathering, analyzing, and interpreting data important for policymakers.

The department also prepares teachers for secondary school social studies with a concentration in sociology. The program leads to the degree Bachelor of Science in Education. With its emphasis on patterns of social organization in modern industrialized societies, sociology provides a solid foundation for teaching social science at the secondary level. Minors are available in sociology and in applied social research.

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The College of Humanities and Social Sciences

Bachelor of Arts-Sociology/General Sociology Track

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Mathematics: [MA217](#) recommended

Social Science: [SO151](#)

Liberal Studies electives: no courses with SO prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 27

Required courses:

SO151	Principles of Sociology	*sh
SO320	Sociological Theory	3sh
SO380	Social Research Methods	3sh

One of the following courses:

SO361	Social Stratification	3sh
SO362	Racial and Ethnic Minorities	3sh
SO363	Sociology of Sex and Gender	3sh

At least one *different* course from four
of the following substantive areas: 12

Social Inequality and Social Change

SO303	Social and Cultural Change	3sh
SO337	World Societies and World Systems	3sh
SO361	Social Stratification	3sh
SO362	Racial and Ethnic Minorities	3sh
SO363	Sociology of Sex and Gender	3sh
SO448	Social Policy	3sh

[SO458](#) Political Sociology 3sh

Deviance and Social Problems

[SO231](#) Contemporary Social Problems 3sh

[SO333](#) Delinquency and Youth 3sh

[SO335](#) Alcohol and Drug Abuse 3sh

[SO427](#) Spouse Abuse 3sh

[SO428](#) Child Abuse 3sh

Individual and Society

[SO251](#) Sociology of Human Sexuality 3sh

[SO345](#) Interpersonal Dynamics 3sh

[SO357](#) Sociology of Aging 3sh

Social Organization and Institutions

[SO286](#) Marriage, Kinship, and the Family 3sh

[SO336](#) Sociology of the Family 3sh

[SO339](#) The Community (inactive) 3sh

[SO340](#) Sociology of Industry 3sh

[SO341](#) Sociology of Education 3sh

[SO342](#) Social and Cultural Aspects of
Health and Medicine 3sh

[SO348](#) Sociology of Work 3sh

[SO352](#) Sociology of Religion 3sh

[SO421](#) Sociology of Mass Media 3sh

[SO458](#) Political Sociology 3sh

Comparative Sociology

[SO233](#) Language and Culture 3sh

[SO271](#) Cultural Area Studies: Africa 3sh

[SO272](#) Cultural Area Studies: China 3sh

[SO273](#) Cultural Area Studies: Southeast Asia 3sh

[SO286](#) Marriage, Kinship, and the Family 3sh

[SO303](#) Social and Cultural Change 3sh

[SO314](#) Native Americans 3sh

[SO337](#) World Societies and World Systems 3sh

[SO342](#) Social and Cultural Aspects of
Health and Medicine 3sh

Free Sociology Electives:

Other Requirements:	0
Free Electives:	36-44
Total Degree Requirements:	124

(*) Credit counted in Liberal Studies, not in the major.

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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The College of Humanities and Social Sciences

Bachelor of Arts-Sociology/Clinical Sociology Track

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Mathematics: [MA217](#) recommended

Social Science: [SO151](#) required, [AN110](#) and [PC101](#) recommended

Liberal Studies electives: no courses with SO prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 42

Required courses:

SO151	Principles of Sociology	*sh
SO301	Clinical Sociological Theory	3sh
SO302	Clinical Sociological Practice	3sh
SO303	Social and Cultural Change	3sh
SO320	Sociological Theory	3sh
SO380	Social Research Methods	3sh
SO493	Internship in Sociology	12sh

Controlled electives: One substantive area (2) 15sh (3)

Medical Sociology: [AN444](#) or [SO342](#), and 4 courses

from list: [AN222](#), [AN444](#), [BI151](#) or [BI155](#), [EC335](#),
[FN212](#), [PC321](#), [PC378](#), [SO231](#), [SO336](#), [SO342](#), [SO357](#), [SO459](#)

Gerontology: [PC378](#) or [SO357](#), and 4 courses from list:

[AN444](#), [EC335](#), [GE360](#), [PC312](#), [PC378](#), [SO231](#), [SO251](#), [SO336](#),
[SO342](#), [SO352](#), [SO357](#)

Juvenile Delinquency: [CR451](#) or [SO333](#), and 4 courses from list:

[CR102](#), [CR270](#), [CR370](#), [CR451](#), [GE432](#), [HI374](#), [SO231](#), [SO333](#),

[SO336](#), [SO339](#), [SO345](#), [SO361](#), [SO362](#)

Interpersonal and Family Sociology: [SO336](#) or [SO345](#),
and 4 courses from list: [HE218](#), [HE224](#), [PC311](#), [PC321](#),
[PC330](#), [SO251](#), [SO335](#), [SO336](#), [SO339](#), [SO345](#), [SO361](#),
[SO363](#), [SO427](#), [SO428](#)

Labor and Industry: [SO340](#) or [SO348](#), and 4 courses from list:
[EC330](#), [EC350](#), [EC371](#), [EC372](#), [EC373](#), [HI373](#), [LR426](#), [LR480](#), [PC420](#),
[SO231](#), [SO303](#), [SO340](#), [SO348](#), [SO361](#), [SO458](#)

Community Development: [SO339](#), and 4 courses from list:
[AN271](#), [AN272](#), [AN314](#), [EC336](#), [EC383](#), [FN402](#), [GE331](#), [GE332](#), [GE360](#),
[PS251](#), [PS354](#), [SO231](#), [SO333](#), [SO336](#), [SO338](#), [SO339](#), [SO341](#), [SO363](#)

Other Requirements: 0

Free Electives: 21-29

Total Degree Requirements: 124

(*) Credit counted in Liberal Studies, but not in the major.

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

(2) Students may create their own substantive area with the approval of the department chairperson.

(3) At least two courses in any substantive area must be SO (Sociology) courses.

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The College of Humanities and Social Sciences

Bachelor of Arts-Sociology/Applied Social Research Track

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Mathematics: [MA217](#)

Social Science: [SO151](#) required, [AN110](#) recommended

Liberal Studies electives: [CO101](#), no courses with SO prefix

College: 0-6

Foreign Language Intermediate Level (1)

Major: 42

Required courses:

SO151	Principles of Sociology	*sh
SO320	Sociological Theory	3sh
SO380	Social Research Methods	3sh
SO456	Field Research Methods	3sh
SO457	Computer Use in Sociology	3sh
SO458	Political Sociology	3sh
SO471	Internship in Sociology	12sh

Controlled electives: One substantive area (2) 15sh (3)

Medical Sociology: [AN444](#) or [SO342](#), and 4 courses from list:

[AN222](#), [AN444](#), [BI151](#) or [BI155](#), [EC335](#), [FN212](#), [GE360](#), [PC321](#),
[PC378](#), [SO231](#), [SO335](#), [SO336](#), [SO342](#), [SO357](#), [SO459](#)

Gerontology: [PC378](#) or [SO357](#), and 4 courses from list:

[AN444](#), [EC335](#), [EC360](#), [GE360](#), [PC312](#), [PC378](#), [SO231](#),
[SO251](#), [SO336](#), [SO342](#), [SO352](#), [SO357](#)

Juvenile Delinquency: [CR451](#) or [SO333](#), and 4 courses from list:

[CR102](#), [CR270](#), [CR361](#), [CR370](#), [CR451](#), [GE432](#), [HI374](#), [SO231](#), [SO333](#),

[SO336](#), [SO339](#), [SO345](#), [SO361](#), [SO362](#)

Interpersonal and Family Sociology: [SO335](#) or [SO345](#), and 4 courses from list: [AN319](#), [HE218](#), [HE224](#), [PC311](#), [PC321](#), [PC330](#), [SO251](#), [SO335](#), [SO336](#), [SO337](#), [SO339](#), [SO345](#), [SO361](#), [SO362](#), [SO427](#), [SO428](#), [SO435](#)

Labor and Industry: [SO340](#) or [SO348](#), and 4 courses from list: [EC330](#), [EC350](#), [EC371](#), [EC372](#), [EC373](#), [HI373](#), [LR426](#), [LR480](#), [PC420](#), [PS352](#), [SO231](#), [SO303](#), [SO333](#), [SO336](#), [SO338](#), [SO339](#), [SO341](#), [SO363](#)

Other Requirements: 0

Free Electives: 21-29

Total Degree Requirements: 124

(*) Credit counted in Liberal Studies, not in the major.

(1) Intermediate-level Foreign Language may be included in Liberal Studies elective.

(2) Students may create their own substantive area with the approval of the department chairperson.

(3) At least two courses in any substantive area must be SO (Sociology) courses.

Indiana University of Pennsylvania

1997-1998 Undergraduate Catalog

Indiana, Pennsylvania 15705 Last Modified at 1:47 PM on 7/26/97

The College of Humanities and Social Sciences

Bachelor of Science in Education-Social Sciences Education/Sociology Concentration (*)

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Social Science: [PC101](#), [SO151](#), [EC121](#)

Liberal Studies electives: [EC122](#), [GE230](#), [PS346](#),

no courses with SO prefix

College: 30

Professional Education sequence: (1)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
ED455	Teaching of Social Sciences in Secondary School	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurement	3sh
FE202	American Education in Theory and Practice	3sh

Major: 36

Required Sociology or related courses:

SO151	Principles of Sociology	*sh (2)
SO231	Contemporary Social Problems	3sh
SO320	Sociological Theory	3sh
SO380	Social Research Methods	3sh
AN211	Cultural Anthropology	3sh

Controlled electives:

One course recommended from each of the
following 3 areas of Sociology:

Social Structures and Processes: [SO336](#), [SO340](#), [SO341](#),
[SO348](#), [SO352](#), [SO421](#), [SO458](#), [SO459](#)

Social Problems: [SO231](#), [SO251](#), [SO333](#), [SO335](#), [SO357](#),
[SO362](#), [SO363](#), [SO427](#), [SO428](#)

Theory and Research: [AN317](#), [SO321](#); [SO301](#), [SO456](#), [SO457](#)

History Distributional Requirements

Any two History courses which focus on the U.S.	6sh
Any Non-Western or World History Course	3sh

Required Social Science Distribution

GE200 level or higher	3sh
PS280 or PS285	3sh

Other Requirements: 0

Free Electives: (3) 3-5

Total Degree Requirements: 124

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

(2) [SO151](#): Principles of Sociology is counted as part of the 53-55sh Liberal Studies requirements.

(3) Students who do not pass a special education competency test must take [EX300](#); this will reduce their free electives.

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The College of Humanities and Social Sciences

Minor-Sociology-15

Required course:

[SO151](#) Principles of Sociology 3sh

Controlled electives:

One course from list: [SO231](#), [SO320](#), [SO380](#) 3sh

Three additional courses in Sociology 9sh

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The College of Humanities and Social Sciences

Minor-Applied Social Research 15

Required courses:

SO380	Social Research Methods	3sh
SO456	Field Research Methods	3sh
SO457	Computer Use in Sociology	3sh
SO458	Political Sociology	3sh

Controlled elective:

Any research course in College of Humanities and Social Sciences,
as approved by department chairperson 3sh

Optional internship: [AN493](#) or [SO493](#) 6sh

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The College of Humanities and Social Sciences

Department of Spanish and Classical Languages

Jose! M. Carranza, Chairperson; Barton, Broad, Drescher, Foltz, Glisan, Hernandez, Mendizabal, Miltz, Smith, Spieker, Thornton, Young

The Department of Spanish and Classical Languages offers a varied curriculum designed to provide not only basic language instruction in Spanish, Greek, and Latin but also the more advanced competencies needed by language specialists and students hoping to take advantage of an international study experience. For the undergraduate Spanish major, the department has three degree programs: the B.S. in Education, the B.A. in Spanish, and the B.A. in Spanish for International Trade. The latter degree program provides solid undergraduate degree training preparatory to an M.B.A. in International Management.

Students majoring in Spanish will acquire proficiency in all phases of the language and enter more deeply into the history, culture, and literature of Spanish-speaking countries. Spanish majors generally find employment in government work, librarianship, journalism, foreign trade, airlines, tourism, business, and teaching. Students choosing careers as secondary school teachers will find the close supervision and advanced methodology offered by the department a distinct asset.

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The College of Humanities and Social Sciences

College Language Requirements

Students in the College of Natural Sciences and Mathematics and College of Humanities and Social Sciences, who must pass an intermediate-level language course requirement for graduation, may choose any one of the four languages offered: French, German, Latin, and Spanish. Those choosing the Spanish or Latin options will fulfill the requirement by successfully completing [SP201](#) or [SP211](#) or [LA201](#). The student with no previous foreign language study will take [SP101-SP102](#) or [SP111](#) or [LA101-LA102](#) as a prerequisite; the credits will not be applicable to any college or department requirements (except for students in HRIM who may fulfill their 6-hour language requirement with [SP111](#) or [SP211](#) or with two 4-hour courses) but may be counted as general electives in the total required for graduation. Students in the other colleges may choose to take one of the languages offered (at the intermediate level) in fulfilling the requirements of Liberal Studies electives.

Students with previous Spanish study in high school will be placed into the appropriate course levels by means of a written departmental exam, administered prior to the beginning of the semester. In addition, as deemed necessary in individual cases, students may be required to take an oral proficiency test with one or more faculty members in the Spanish department. Each student's individual requirements and the judgment of the classroom instructors will also be considered in placement. No student judged to be a native speaker of Spanish will be allowed to enroll in any course below the 300 level.

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The College of Humanities and Social Sciences

Spanish for Elementary Education

A student in Elementary Education may elect a concentration of 19 semester hours of Spanish, consisting of the following:

SP201 or equivalent	4sh
SP221 Intermediate Conversation	3sh
SP230 Intermediate Composition	3sh
SP260 Introduction to Literature	3sh
SP321 Advanced Conversation	3sh
SP404 Advanced Spanish Grammar	3sh

Elementary Education students wishing to prepare to teach in elementary programs where content teaching in Spanish is the objective should enroll in the Foreign Languages and International Studies for Elementary Teaching (FLISET) program described under the Department of Professional Studies in Education.

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The College of Humanities and Social Sciences

Study Abroad and Internships

Study Abroad: The university has established study abroad centers in Spain, Mexico, and Costa Rica. The program in Valladolid, Spain, is a second-semester-only program, whereas the ones in Mexico and Costa Rica are summer programs. All majors are encouraged to participate in study abroad; nonmajors are also accepted into these programs. The 18 hours in Spain or 7 hours in Mexico, or 4 hours in Costa Rica are applicable to a major or a minor in Spanish. Students interested in more information should contact the Spanish department.

Internships: Internships in Spain, Mexico, and Costa Rica are available through the department. All internships take place during the summer and vary from six weeks to two months in duration. Internship is a credit-bearing course,, [SP493](#), and all interns are enrolled in the first session of summer school. Noncredit internships cannot be considered. Students enrolled in the Spanish for International Trade program are strongly urged to do an internship in order to gain credibility in the field of international business. Internships are available in banking, government, social work, communications, education, marketing, and many other fields. Arranging an internship abroad takes considerable long-range planning, and anyone interested should contact the Spanish Department at least three months in advance.

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The College of Humanities and Social Sciences

Bachelor of Arts-Spanish

Liberal Studies: As outlined in the Liberal Studies section 53-55

with the following specifications:

Liberal Studies electives: no courses with SP prefix

College:

Foreign Language (included in major) 0

Major: 37

Required courses:

SP201	or equivalent	4sh
SP221	Intermediate Conversation	3sh
SP230	Intermediate Composition	3sh
SP260	Introduction to Literature	3sh
SP321	Advanced Conversation	3sh
SP340	Hispanic Civilization Through the 19th Century	3sh
SP342/SP344	20th-Century Spain/20th-Century Spanish-America	3sh
SP404	Advanced Grammar	3sh

Controlled electives:

At least two courses from those numbered 410-431 6sh

Any other six credits in courses 342 or above 6sh

Other Requirements: 0

Free Electives: 32-34

Total Degree Requirements: 124

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The College of Humanities and Social Sciences

Minor-Spanish-22

Required courses:

SP201	or equivalent	4sh
SP221	Intermediate Conversation	3sh
SP230	Intermediate Composition	3sh
SP260	Introduction to Literature	3sh
SP321	Advanced Conversation	3sh
SP342/SP344	20th-Century Spain/ 20th-Century Spanish America	3sh

Controlled electives:

One course: [SP340](#), [SP342](#), [SP344](#), [SP362](#), [SP364](#), or [SP353](#) 3sh

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The College of Humanities and Social Sciences

Bachelor of Arts-Spanish for International Trade

Liberal Studies: As outlined in Liberal Studies section **54-56**

with the following specifications:

Mathematics: [MA121](#)

Social Science: [EC121](#)

Liberal Studies electives: [GE252](#), [MA214](#), [BE101](#)/[CO101](#)/[IM101](#),

no course with SP prefix

College: **0**

Foreign Language (included in major)

Major: **34**

Required courses:

SP201	or equivalent	4sh
SP222	Intermediate Conversation (Business)	3sh
SP230	Intermediate Composition	3sh
SP260	Introduction to Hispanic Literature	3sh
SP321	Advanced Conversation	3sh
SP340	Hispanic Civilization Through the 19th Century	3sh
SP404	Advanced Grammar	3sh
SP342 / SP344	20th-Century Spain/ 20th-Century Spanish America	3sh
SP354	Commercial Spanish	3sh

Controlled electives:

Other Spanish Electives **6sh**

Other Requirements: Business sequence **36**

AD321	Business and Interpersonal Communications	3sh
AG201	Accounting Principles I	3sh
AG202	Accounting Principles II	3sh
BL235	Introduction to Business Law	3sh

EC122	Principles of Economics II	3sh
FI310	Finance I	3sh
IM300	Information Systems: Theory and Practice	3sh
MG310	Human Behavior in Organizations	3sh
MG330	Management and Production Concepts	3sh
MG495	Business Policy	3sh
MK320	Principles of Marketing	3sh
QB215	Business Statistics	3sh

Free Electives: 0

Total Degree Requirements 124-126

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The College of Humanities and Social Sciences

Bachelor of Science in Education-Secondary Spanish Education (*)

Liberal Studies: As outlined in Liberal Studies section 53-55

with the following specifications:

Social Science: [AN110](#), [PC101](#)

Liberal Studies electives: no courses with SP prefix

College: 35

Professional Education sequence:

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-Student Teaching and Clinical Experiences I	1sh
ED342	Pre-Student Teaching and Clinical Experiences II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
ED453	Teaching of Foreign Language in Secondary School	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh
FE202	American Education in Theory and Practice	3sh
ED499	Multicultural/Multiethnic Education	2sh
EX300	Education of the Exceptional Child	
	in the Regular Classroom	3sh (1)

Major: 34

Required courses:

SP201	or equivalent	4sh
SP221	Intermediate Conversation	3sh
SP230	Intermediate Composition	3sh
SP260	Introduction to Hispanic Literature	3sh
SP321	Advanced Conversation	3sh
SP340	Hispanic Civilization	3sh
SP342/SP344	20th-Century Spain/ 20th-Century Spanish-America	3sh
SP353	Phonetics and Phonemics	3sh

SP390	Teaching of Elementary Content Through the Spanish Language	3sh
SP404	Advanced Grammar	3sh

Controlled Electives:

Any other three (3) credits from [SP300](#) or above 3sh

Free Electives: 0-2

Total Degree Requirements 124

(*) See requirements leading to teacher certification [Admission to Teacher Education](#)

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The College of Natural Sciences and Mathematics

One of the characteristics of the twentieth century is the marked change in the relation of citizens to their environment. Space probes, orbiting satellites, and productive research on the structure and synthesis of living matter have brought to the forefront for reexamination such time-honored queries as, "What is the nature of the universe?" or "Can people control their natural environment?" or "How did life begin?" Scientifically found answers to these and other questions, coupled with proper application of this knowledge for humankind's betterment, must be a significant part of the goal of educated people everywhere.

The objectives of the College of Natural Sciences and Mathematics are to acquaint the student with the kinds of problems which lend themselves to possible solutions through the use of science; to introduce different scientific techniques through significant illustrative experiences; to give a sense of perspective in the development of science; and to develop an understanding of the basic community of all scientific disciplines.

Degrees Offered

Applied Mathematics
Applied Physics
Biochemistry
Biology
Biology Education
Chemistry
Chemistry Education
Computer Science
Earth and Space Science Education
Economics/Mathematics
Environmental Geoscience
Environmental Health
General Science Education
Geology
Mathematics
Mathematics Education
Natural Science
Physics
Physics Education
Psychology

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The College of Natural Sciences and Mathematics

Degrees

The departments of Biology, Chemistry, Computer Science, and Physics offer work leading to either a Bachelor of Science or a Bachelor of Arts degree, depending upon the specific course program pursued. The Bachelor of Science degree is awarded for successful work in the departments of Geoscience and Mathematics. The Bachelor of Arts degree is awarded by the Department of Psychology. A Bachelor of Science degree is also awarded in Natural Sciences.

Several departments in the College of Natural Sciences and Mathematics sponsor Master of Arts or Master of Science degrees in the university's Graduate School. The Department of Psychology offers the Doctor of Clinical Psychology degree. Information on these programs should be obtained from the Graduate School.

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The College of Natural Sciences and Mathematics

Degree Requirements

In addition to the university's Liberal Studies requirements, all students seeking a baccalaureate degree in the College of Natural Sciences and Mathematics must complete the requirements for a major as established by the department through which they wish to specialize. Statements of these requirements and those for minoring in a specific field appear in the department sections that follow. A double major or minor may encompass a discipline outside as well as within the college but should be selected only with advisor approval. As a general principle, there is considerable latitude in course choice for Natural Sciences and Mathematics majors; for specifically required courses, substitution in any program must have the written approval of the student's department chairperson or the college dean.

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The College of Natural Sciences and Mathematics

The Foreign Language Requirement

Unless otherwise indicated, each department adheres to the following foreign language requirement: A candidate for a Bachelor of Arts or Bachelor of Science degree must demonstrate a proficiency in a foreign language equivalent to that attained upon completion of two years of college instruction in that language. This requirement may be met by one of the following:

- a. successful completion of the intermediate level in a specific language
- b. successful completion of an exemption or credit examination

Any foreign student, registered as such at IUP, whose acquired native language is other than English and who demonstrates an acceptable proficiency in English, is exempt from the foreign language requirement for a Natural Sciences and Mathematics degree if the department he/she is majoring in does not require a specific language not thus covered.

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The College of Natural Sciences and Mathematics

Preprofessional Programs

The College of Natural Sciences and Mathematics offers programs for the preparation of students for acceptance by a professional school: pre-medical (including osteopathic medicine) and pre-veterinary medicine. In addition, the college offers a major in the Natural Sciences for those students whose goal is dentistry, pharmacy or pharmacology, optometry, podiatry, chiropractic medicine, or physical therapy. All programs are so designed that, should work at a professional school not ensue, the student may earn an IUP baccalaureate degree, provided he/she has been faithful to faculty advisement.

The preprofessional health programs in the College of Natural Sciences and Mathematics presuppose that the student has an excellent background in the high school sciences and mathematics and will prove to be an excellent college student. Students should identify their proposed field of study upon admission to IUP.

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The College of Natural Sciences and Mathematics

Cooperative Programs

IUP has been fortunate to enter into cooperative agreements with a number of outstanding institutions to provide significant career opportunities to our students. These formal agreements provide for accelerated graduate or professional degree programs or carefully planned and coordinated undergraduate programming with the cooperating institution. Programs are intended to assure acceptance of properly qualified students by the cooperating professional schools. Additional information concerning the specific programs can be found under the appropriate academic department in this catalog.

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The College of Natural Sciences and Mathematics

Primary Care Scholars Program

The Philadelphia College of Osteopathic Medicine (PCOM) has established the Primary Care Scholars Program with six Pennsylvania State System of Higher Education universities. The program will enable students who have demonstrated both academic excellence and a commitment to the practice of primary care in Pennsylvania to gain early admission to PCOM. Contact Dr. Allan Andrew for specific information regarding this program.

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The College of Natural Sciences and Mathematics

Allegheny General Hospital Scholars Program

This program has been established to attract highly qualified students who live in the Pittsburgh area and southwestern Pennsylvania to enter the medical disciplines of family medicine, internal medicine, and general pediatrics. This is an integrated program for IUP, Allegheny General Hospital, and MCP<>Hahnemann School of Medicine of the Allegheny University of the Health Sciences. Contact Dr. Allan Andrew for specific information regarding this program.

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The College of Natural Sciences and Mathematics

Chiropractic (see [Natural Sciences](#))

The New York College of Chiropractic Medicine Program is designed to accelerate the professional training of IUP students in the field of chiropractic medicine.

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The College of Natural Sciences and Mathematics

Engineering (See [Department of Physics](#))

The program with Drexel University combines the opportunity for two years of study at IUP with the remaining three years of study as part of the Drexel plan of cooperative education. A student completing this program will receive a bachelor's degree in engineering from Drexel University.

The program with University of Pittsburgh allows the student to enroll at IUP for the first three years of college and conclude degree work by enrolling in an engineering program at the University of Pittsburgh for the last two years. The student will earn a B.S. degree in Natural Science from IUP and the appropriate engineering degree from the University of Pittsburgh; see the Natural Science section for IUP degree requirements.

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The College of Natural Sciences and Mathematics

Family Medicine (See [Department of Biology](#))

The program with Jefferson Medical College of Thomas Jefferson University increases the opportunities for IUP students to be admitted to Jefferson Medical College in the Family Medicine Program. The program is designed to provide physicians to rural communities in Pennsylvania where there is a physician shortage.

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The College of Natural Sciences and Mathematics

Primary Care Partnership (See [Department of Biology](#))

The program with Pennsylvania State University College of Medicine enables the college to identify students with primary care potential and provide these students with the opportunity to interact with primary care faculty at the Pennsylvania State University College of Medicine.

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The College of Natural Sciences and Mathematics

Forestry and Environmental Studies (See [Department of Biology](#))

The program with Duke University is designed to coordinate the education of students from IUP with the graduate programs in forestry and environmental management offered at Duke University in Durham, North Carolina.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:36 PM on 7/26/97

The College of Natural Sciences and Mathematics

Podiatry (See [Natural Sciences](#))

The Pennsylvania College of Podiatric Medicine program accelerates the professional training of IUP students in the field of podiatry.

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The College of Natural Sciences and Mathematics

Optometry (See [Natural Sciences](#))

The Pennsylvania College of Optometry program accelerates the professional training of IUP students in the field of optometry.

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The College of Natural Sciences and Mathematics

Marine Science Consortium

College majors may be interested in the programs available through the Marine Science Consortium. The Marine Science Consortium was established in 1968 for the purpose of promoting teaching and research in the marine sciences. Participating institutions include IUP and thirteen other colleges and universities. Although no separate major in the Marine Sciences exists, elective courses may be taken and credited toward undergraduate curricula in Biology, Geology, Geography, and Earth Science. The Marine Science Consortium offers five three-week sessions during the summer at the NASA-Wallops Island Station, Virginia. Normally, several research cruises are offered each summer.

Students must register for credit and pay credit fees to a participating institution. Room and board fees are paid to the consortium. Applications for all summer sessions must be submitted to the institutional director by April 1. Students must be accepted by the consortium before registering at a participating institution. See section on Marine Science Consortium for a listing of courses. For brochure, summer bulletin, and application forms, contact Dr. Ray L. Winstead, Biology, or Dr. Darlene S. Richardson, Geoscience, who are the IUP directors and assist students in program planning.

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The College of Natural Sciences and Mathematics

Internship Programs

Several departments in the College of Natural Sciences and Mathematics have established extensive internship programs under which students engage in an off-campus supervised work experience for credit.

For more information about specific internship programs, students should consult with the chairperson of the department in which the student is majoring. Students eligible for internships may receive federal or state funding.

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The College of Natural Sciences and Mathematics

Department of Biology

Robert S. Prezant, Chairperson; Alico, Andrew, Ash-Johnson, Ayebo, Bharathan, Browe, Butler, Charnego, Ciskowski, Dietrich, Ferrence, Forbes, Gendron, Hinrichsen, Hulse, Humphreys, Jack, Kesner, Linzey, Lord, Luciano, Nastase, Newell, Peard, Peterson, Pickering, Pistole, Simmons, Winstead; and professors emeriti Gallati, Liegey, Moore, Schrock

Degrees offered by the Department of Biology are the Bachelor of Science in Biology, the Bachelor of Arts in Biology, the Bachelor of Science in Environmental Health, and the Bachelor of Science in Education with a Biology major. The first three degree programs are under the College of Natural Sciences and Mathematics, and the fourth is under the College of Education. The department also offers a Biology minor.

The program leading to a B.S. in Biology is designed to provide maximum depth in the sciences and mathematics with less elective opportunity. Students who plan to attend graduate school or professional schools, such as those in human or veterinary medicine, most often choose this program of studies.

Further, the B.S. in Biology automatically qualifies a student for a minor in chemistry and thus represents more than adequate preparation for employment opportunities that require expertise in both biology and chemistry.

The program leading to the B.A. in Biology is designed to allow for greater elective choice. This freedom could be used to pursue interests in nonbiological areas, allowing for a more broadly based Liberal Arts education. Alternatively, the B.A. degree student would have the flexibility to pursue in depth (to minor in or perhaps even to double major in) a particular nonbiological discipline. Biology combined with other sciences such as Computer Science, Chemistry, Physics, Geoscience, Mathematics or Psychology, or non-sciences such as Art, English, Business, or a foreign language can make attractive packages for the student and for potential future employers.

The Environmental Health program is a preparation for employment in local, state, and federal agencies and industry as well as graduate school in a public health-related field. Between the junior and senior year, each student should serve an internship with a governmental agency or an industrial concern.

The Department of Biology, in conjunction with the College of Education, provides a program leading to the B.S. in Education with certification to teach biology. The program is committed to preparing teachers who possess a strong foundation in biology, a broad background in associated sciences, and an extensive preparation in pedagogy.

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The College of Natural Sciences and Mathematics

Foreign Language Requirement

Biology majors must complete intermediate level or two semesters of foreign language starting at the highest level recommended by the freshman Pre-registration Placement Test in that language (may be included in Liberal Studies electives). This requirement can also be met by demonstrating proficiency in a foreign language equivalent to the intermediate level.

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The College of Natural Sciences and Mathematics

Cooperative Programs

The Biology Department cooperates in programs with Jefferson Medical College, Duke University School of Forestry and Environmental Studies, Marine Science Consortium, Inc., and Pymatuning Laboratory of Ecology.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:42 PM on 7/26/97

The College of Natural Sciences and Mathematics

Duke Cooperative College Program in Forestry and Environmental Studies

The Cooperative College program with the Duke University School of the Environment is designed to coordinate the undergraduate education of students at IUP with graduate programs in the areas of resources and environment offered at Duke. Undergraduate majors in one of the natural sciences, mathematics, economics, business, or political science are suited to the program. Preparation for the Duke program should include at least one year each of biology with work in botany, economics with a significant component of microeconomics, and mathematics which should include calculus, computer science, and statistics. Applicants to the Duke program who have completed courses in ecology, chemistry, geology, physics, and a foreign language or additional courses in biology, economics, and mathematics will be given preferential consideration. Students are accepted in either of two degree programs at Duke: the Master of Forestry (M.F.) or Master of Environmental Management (M.E.M.).

Students may be accepted into the Duke graduate program after three years of high-quality undergraduate study at IUP or upon completion of the baccalaureate. Students who qualify after three years will have completed most of the undergraduate degree requirements at IUP except for total hours. Courses at Duke will be applied to the bachelor's degree at IUP. Dr. Jerry L. Pickering, Department of Biology, is the faculty advisor at IUP and assists students in program planning.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:43 PM on 7/26/97

The College of Natural Sciences and Mathematics

Jefferson Medical College-IUP Physician Shortage Area Program

A cooperative Family Medicine Physician Education Program has been established by IUP and Jefferson Medical College of Thomas Jefferson University in Philadelphia for the purpose of improving the distribution of physicians in Pennsylvania. The program is designed to increase the opportunities for young women and men to practice family medicine in the rural communities of Pennsylvania where there is a shortage of physicians.

The program at Jefferson Medical College will admit approximately four graduates of IUP and twenty graduates of other colleges each year. Students from IUP will be admitted only if properly qualified according to the admission standards and policies of Jefferson Medical College. Applications are reviewed by the Joint IUP-Jefferson Subcommittee and recommendations made to the Jefferson Committee on Admissions.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:44 PM on 7/26/97

The College of Natural Sciences and Mathematics

Admission to Jefferson Medical College

A strong preparation in the sciences and mathematics basic to medical school studies is required. A variety of college course formats and combinations, including biology, general and organic chemistry, and physics are a minimum. Courses taken to meet the basic requirements should be rigorous and, in general, comparable to courses accepted for concentration in these disciplines. Courses taken should be supplemented by laboratory experiences. Students may take upper-level science courses out of educational interest or to fulfill the requirements of their major. Taking additional science courses that cover material taught within the medical school curriculum is not helpful to gain admission.

Breadth of education is expected. Pursuit of some discipline in depth is encouraged. A successful medical student must actively acquire, synthesize, apply, and communicate information. These are skills that can be developed through a great variety of academic disciplines. Studies in the humanities and the social and behavioral sciences and development of effective writing skills are strongly suggested. Additional requirements for admission can be found in "Information for Prospective Students," published by Jefferson Medical College.

Students who qualify for the Physician Shortage Area Program (PSAP) must certify their intentions to adhere to the following plan of education and practice: (a) complete the family medicine curriculum during their four years of medical education at Jefferson Medical College, including a six-week clerkship in a rural area; (b) complete a three-year family medicine residency; and (c) agree to practice family medicine in an underserved area. Preference will be given to Pennsylvania residents who are interested in this program, with highest priority given to those who actually live, at the time of application, in the underserved area in which they hope to practice. (Dr. Allan Andrew, pre-medical advisor in the Biology Department, will assist students in program planning.)

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The College of Natural Sciences and Mathematics

Marine Science Consortium

Biology majors interested in marine biology are encouraged to investigate summer courses offered through the Marine Science Consortium at Wallops Island, Virginia, by contacting Dr. Ray Winstead in the Biology Department. Courses offered have included Marine Biology, Tropical Marine Ecology, Fish Biology, Marine Invertebrates, and many more. These courses count as biology electives.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:46 PM on 7/26/97

The College of Natural Sciences and Mathematics

Pymatuning Laboratory of Ecology

Biology majors can expand their selection of course offerings by participating in a cooperative program with the University of Pittsburgh's Field Station at the Pymatuning Laboratory of Ecology located in northwestern Pennsylvania. These elective courses center on ecological and environmental topics, i.e., Ecology, Field Botany, Vertebrate Ecology, Aquatic Entomology, Behavioral Ecology, and Experimental Design. Application and registration for both summer sessions must be completed by April 1. Students register for credit and pay fees at IUP. Books, lab fee, and room and board are paid to the Pymatuning Laboratory of Ecology. Dr. Anthony J. Nastase is the faculty advisor for this cooperative program and assists students in program planning, application, and registration.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:46 PM on 7/26/97

The College of Natural Sciences and Mathematics

Mentor Program and Biology Residence Floor

The Department of Biology offers a Peer Mentor Program that allows incoming students, new to IUP and new to Biology, to quickly gain an academic home. New students are assigned an upper-level Peer Mentor to help guide them through the curriculum, requirements, and programs within our department and college. A fall off-campus retreat is an important component of our Mentor Program, and students are expected to attend.

Gordon Hall, just behind Weyandt Hall (the home of the Department of Biology), has a single residence floor dedicated to Biology, Environmental Health, Biology Education, and Preprofessional (Pre-Med, Pre-Vet) students. Students with similar professional and academic interests can share life experiences by being part of this component of our academic community. Undecided or Natural Science students with interests in Biology may also apply to be on this floor.

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The College of Natural Sciences and Mathematics

Degree Programs

In the programs of study that follow, no more than 6 semester hours total from internships, independent study, and special topics can be counted toward biology course requirements. Credits beyond six earned from these sources are counted as general electives. Note: Students changing into the majors of Biology, Biology Pre-Med, or Environmental Health are required to have a 2.5 QPA or permission of the chairperson. The program in secondary biology education requires a cumulative QPA of 2.75 for all majors.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 3:47 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Arts-Biology

Liberal Studies: As outlined in Liberal Studies section 55-56

with the following specifications:

Mathematics: [MA121](#)

Natural Science: [CH111-CH112](#)

Liberal Studies electives: no courses with BI prefix

Major: 32

Required courses:

BI111 Principles of Biology I	4sh
BI112 Principles of Biology II	4sh
BI210 Botany	3sh
BI220 General Zoology	3sh
BI250 Principles of Microbiology	3sh
BI263 Genetics	3sh

Controlled electives:

Biology electives (major courses only) 12sh (1)

Other Requirements: 8

Chemistry sequence:

CH231 Organic Chemistry I	4sh
CH351 Biochemistry (2)	4sh

Foreign Language Intermediate Level(3) 0-6sh

Free Electives: 29

Total Degree Requirements: 124

- (1) No more than 6sh total from Independent Study, Special Topics Internship applies to major; excess applied as free electives.
 - (2) The two-semester (six-credit) sequence of [BC301-BC302](#) can be substituted for [CH351](#) to meet the biochemistry requirement.
 - (3) See Foreign Language requirement. Intermediate-level foreign language may be included in Liberal Studies electives. Introductory-level foreign language courses count as free electives.
-

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 6:58 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science-Biology

Liberal Studies: As outlined in Liberal Studies section 56-57

with the following specifications:

Mathematics: [MA121](#)

Natural Science: [CH111-CH112](#)

Liberal Studies electives: [PY111](#) and either [MA122](#) OR [MA216](#),

no courses with BI prefix

Major: 38

Required courses:

BI111 Principles of Biology I	4sh
BI112 Principles of Biology II	4sh
BI210 Botany	3sh
BI220 General Zoology	3sh
BI250 Principles of Microbiology	3sh
BI263 Genetics	3sh

Controlled electives:

Biology electives (major courses only) 18sh (1)

Other Requirements: 17

Chemistry sequence:

CH231 Organic Chemistry I	4sh
CH232 Organic Chemistry II (2)	4sh
CH351 Biochemistry (3)	4sh

Physics sequence:

PY121 Physics I Lab	1sh
PY112 Physics II	3sh
PY122 Physics II Lab	1sh

Foreign Language Intermediate Level (4) 0-6sh

Free Electives: 13

Total Degree Requirements: 124

- (1) No more than 6sh total from Independent Study, Special Topics, or Internship applies to major; excess applied as free electives.
- (2) Students may substitute a third math course ([MA122](#) or [MA216](#)) for [CH232](#).
- (3) The two-semester (six-credit) sequence of [BC301-BC302](#) can be substituted for [CH351](#) to meet the biochemistry requirement.
- (4) See Foreign Language requirement. Intermediate-level foreign language may be included in Liberal Studies electives. Introductory-level foreign language courses count as free electives.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 6:59 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science in Education-Biology (*)

Liberal Studies: As outlined in Liberal Studies section 54

with the following specifications:

Mathematics: [MA110](#) or [MA121](#)

Natural Science: [CH107](#), [CH112](#)

Social Science: [PC101](#)

Liberal Studies electives: [PY111](#),

no courses with BI prefix, one course must have
a GS prefix from the Liberal Studies Natural Science,
Option II, Nonlaboratory List.

College: 30

Professional Education Sequence: (1)

CM301 Technology for Learning and Instruction	3sh
ED242 Pre-student Teaching Clinical Experience I	1sh
ED342 Pre-student Teaching Clinical Experience II	1sh
ED441 Student Teaching (2)	12sh
ED442 School Law	1sh
ED451 Teaching Science in the Secondary Schools	3sh
EP202 Educational Psychology	3sh
EP377 Educational Tests and Measurements	3sh
FE202 American Education in Theory and Practice	3sh

Major: 30

Required courses:

BI111 Principles of Biology I	4sh
BI112 Principles of Biology II	4sh
BI210 Botany	3sh
BI220 General Zoology	3sh
BI250 Principles of Microbiology	3sh
BI263 Genetics	3sh

[BI480](#) Biology Seminar 1sh

Controlled electives:

Biology electives: (major courses only) 9sh (3)

Other Requirements: 13

Chemistry sequence:

[CH231](#) Organic Chemistry I 4sh

[CH351](#) Biochemistry (4) 4sh

Physics sequence:

[PY121](#) Physics I Lab 1sh

[PY112](#) Physics II 3sh

[PY122](#) Physics II Lab 1sh

Free Electives: 0

(#)Total Degree Requirements: 127

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

(2) Eligibility for student teaching and certification in secondary biology education requires a cumulative GPA of 2.75 and a grade of C or better in all biology courses.

(3) No more than 6sh from Independent Study ([BI482](#)), Special Topics ([BI481](#)), Internship ([BI493](#)) applies to major: excess applied as free electives

(4) The two-semester (six-credit) sequence of [BC301-BC302](#) can be substituted for [CH351](#) to meet the biochemistry requirement.

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 7:02 PM on 7/26/97

The College of Natural Sciences and Mathematics

Minor-Biology

Minor: 17

Required courses:

[BI103-BI104](#) General Biology I and II or

[BI111-BI112](#) Principles of Biology I and II 8s h

Additional BI major's courses 9sh (1)

Other Requirements:

Must have permission of biology department chairperson

(1) With approval of department chairperson.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 7:03 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science-Environmental Health

Liberal Studies: As outlined in Liberal Studies section 56

with the following specifications:

Mathematics: [MA121](#)

Natural Science: [CH111-CH112](#)

Social Science: [EC101](#)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#), [MA216](#), [PY111](#)

Major: 30

Required courses:

BI111 Principles of Biology I	4sh
BI112 Principles of Biology II	4sh
BI210 Botany	3sh
BI220 General Zoology	3sh
BI241 General Microbiology	3sh
BI310 Applied Entomology and Zoonoses	3sh
BI321 Environmental Protection I	3sh
BI322 Environmental Protection II	3sh
BI480 Biology Seminar	1sh

Controlled electives:

Biology electives (major courses only) 3sh (1)

Other Requirements: 31

Required courses:

CH231 Organic Chemistry I	4sh
CH323 Analytical Methods	4sh
PS250 Public Policy	3sh
PY121 Physics I Lab	1sh
PY112 Physics II	3sh
PY122 Physics II Lab	1sh

SA101 Introduction to Occupational Safety and Health Management	3sh
SA301 Nature and Effects of Occupational Health Hazards	3sh

Controlled Electives:

BI498 Biology Internship (1) or controlled electives(2)	9sh
Foreign Language Intermediate Level (3)	0-6sh

Free Electives: **7**

Total Degree Requirements: **124**

(1) No more than 6sh total from Independent Study, Special Topics, or Internship applies to major, excess applied as free electives. At least one writing-intensive course within the major (e.g., [BI362](#) or [SA462](#)) must be taken to fulfill Liberal Studies requirements.

(2) The following courses count as controlled electives: [BI362](#), [BI463](#), [BI476](#), [CH232](#), [GS121](#), [GS122](#), [GS331](#), [SA402](#), [SA461](#), [SA462](#).

(3) See Foreign Language Requirement. Foreign Language courses are counted as free electives.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 7:06 PM on 7/26/97

The College of Natural Sciences and Mathematics

Biochemistry Program

William E. Dietrich, Jr., Program Coordinator; Ford, Harding, Southard, Biology and Chemistry faculties

The B.S. in Biochemistry is a four-year degree curriculum offered as a cooperative program by the Biology and Chemistry departments.

The curriculum leading to a B.S. in Biochemistry begins with foundation courses in biology, chemistry, mathematics, and physics in the first two years. Specialization in biochemistry commences in the third year with courses in biochemistry, genetics, physical chemistry, Special Topics in Biochemistry, and Biochemistry Seminar.

A unique feature of this undergraduate program is that Biochemistry research is a requirement. After consultation with faculty, the students will define a problem and devise an experimental plan through library research. Laboratory research will be done under the direct supervision of a faculty member. Finally, the student will report on the results of the research in both written and oral forms.

The B.S. in Biochemistry Program is intended for those students whose interests lie in a most exciting field of modern science. Graduates of this program can expect to be qualified to enter graduate programs in biochemistry, biology, chemistry, and molecular biology, professional schools in the health sciences, and positions in industrial and government research laboratories and in industrial production facilities.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 7:07 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science-Biochemistry

Liberal Studies: As outlined in the Liberal Studies section 57-58

with the following specifications:

Mathematics: [MA123](#)

Natural Science: [PY131](#)/[PY141](#)-[PY132](#)/[PY142](#)

Liberal Studies elective: [MA124](#),

no courses with BC prefix;

one course must be 200-level or higher.

Major: 51

Required courses:

BI111 Cell Biology	4sh
BI263 Genetics	3sh
BI250 Microbiology	3sh
BI401 Laboratory Methods in Biology and Biotechnology	3sh
BC301 / BC311 Biochemistry I and Lab	4sh
BC302 / BC312 Biochemistry II and Lab	4sh
BC480 Biochemistry Seminar I	1sh (1)
BC481 Special Topics in Biochemistry	3sh
BC482 Independent Research in Biochemistry	2sh
BC490 Biochemistry Seminar II	1sh (1)
CH113 Concepts in Chemistry	4sh
CH114 Basic Inorganic Chemistry	4sh
CH231 Organic Chemistry I	4sh
CH232 Organic Chemistry II	4sh
CH323 Analytical Methods	4sh
CH340 Physical Chemistry	3sh

Controlled electives: 6-7

Advanced Biology course chosen from:

[BI331](#), [BI350](#), [BI352](#), [BI364](#), or [BI453](#) 3sh

Either [MA216](#) or [CO110](#) 3-4sh

Other Requirements:

Foreign Language Intermediate Level (2) 0-6

Free Electives: 0-5

Total Degree Requirements: 124

(1) 1sh each semester of senior year.

(2) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 7:09 PM on 7/26/97

The College of Natural Sciences and Mathematics

Department of Chemistry

Pothen Varughese, Chairperson; Asting, Ballas, Bravo, Christodouleas, Crumm, Eddy, Elcesser, Ford, Harding, Ko, Kupchella, Long, McKelvey, Patsiga, Southard, Sowa, Syty, Wood, Woolcock; and professors emeriti Bordas, Costa, Fazio, Scroxton, Tackett, Wunz, Zambotti

Degrees offered by the Department of Chemistry are the Bachelor of Science in Chemistry, the Bachelor of Arts in Chemistry, and the Bachelor of Science in Education with a Chemistry major. The first two degree programs are under the College of Natural Sciences and Mathematics, and the third is under the College of Education. The department also offers a Chemistry minor.

The B.S. in Chemistry is a professional degree and is certified by the American Chemical Society. The student completing this major should be qualified to assume a position in industry or government as a chemist or to apply for admission to graduate school to pursue advanced studies leading to the M.S. or Ph.D. degree. The student considering going to a professional school who also wishes to complete this degree should elect appropriate courses as required by the professional school in addition to the courses required here. Those students who are particularly interested in biochemistry should elect a few selected biology courses.

The curriculum leading to the B.A. in Chemistry is designed to allow for the workable union of nonscience areas with chemistry in such a way as to retain the fundamental science and mathematics requirements needed for a career in chemistry. A careful selection of electives will qualify the student for entrance into many fields in which there is an acute need for educated people and, at the same time, satisfy the entrance requirements of various professional and graduate schools.

Some possible and useful combinations between chemistry and other disciplines would include chemistry-biology, chemistry-business administration, chemistry-computer science, chemistry-criminology, chemistry-government, chemistry-pre-dental, chemistry-pre-law, chemistry-safety science, chemistry-pre-medicine, and chemistry-English (technical writing). The student must arrange a practical sequence of non-chemistry courses in consort with his/her advisor and the department chairperson concerned. A student seeking a career in forensic science should major in chemistry. The department also offers pre-medical programs in both the B.S. and B.A. curricula. These programs prepare the student to satisfy the entrance requirements of medical schools.

The curriculum leading to the B.S. in Education with a Chemistry major is designed to prepare the student to teach chemistry at the secondary school level. Upon completion of the specified coursework and the requirements for teacher certification processes, the student is eligible for Pennsylvania certification by the Pennsylvania Department of Education.

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The College of Natural Sciences and Mathematics

Bachelor of Arts-Chemistry

Liberal Studies: As outlined in Liberal Studies section 56-57

with the following specifications:

Mathematics: [MA121](#) or [MA123](#)

Natural Science: [PY111](#)/[PY121](#)-[PY112](#)/[PY122](#) or [PY131](#)/[PY141](#)-[PY132](#)/[PY142](#)

Liberal Studies electives: [MA122](#) OR [MA124](#),

no courses with CH prefix

Major: 29

Required courses:

[CH113](#) Concepts in Chemistry 4sh

[CH114](#) Basic Inorganic Chemistry 4sh

[CH231](#) Organic Chemistry I 4sh

[CH232](#) Organic Chemistry II 4sh

[CH321](#) Quantitative Analysis 4sh

[CH322](#) Instrumental Analysis 4sh

[CH341](#) Physical Chemistry I 4sh

[CH343](#) Physical Chemistry Laboratory I 1sh

Other Requirements: 15-21

Planned program in complementary field 15sh (1)

(adviser approval) with 6sh in

300/400 level courses (2)

Foreign Language Intermediate Level 0-6sh

Free Electives: 17-24

Total Degree Requirements: 124

- (1) Recommended fields: Biology, Business, Computer Science, Criminology, Dietetics, Economics, English, Foreign Language, Geoscience, Mathematics, Safety Science, Physics, Political Science, Psychology.
 - (2) Chemistry Pre-Med program requires: [BI111](#), [BI112](#), [BI263](#), [BI331](#).
 - (3) Intermediate-level Foreign language may be included in Liberal Studies electives.
-

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 7:13 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science-Chemistry

Liberal Studies: As outlined in Liberal Studies section 56-57

with the following specifications:

Mathematics: [MA123](#)

Natural Sciences: [PY131/PY141-PY132/PY142](#)

Liberal Studies electives: [MA124](#), no courses with CH prefix

Major: 44

Required courses:

CH113	Concepts in Chemistry	4sh
CH114	Basic Inorganic Chemistry	4sh (1)
CH231	Organic Chemistry I	4sh
CH232	Organic Chemistry II	4sh
CH301	Chemistry Seminar	1sh
CH321	Quantitative Analysis	4sh
CH322	Instrumental Analysis	4sh
CH341	Physical Chemistry I	4sh
CH342	Physical Chemistry II	3sh
CH343	Physical Chemistry Laboratory I	1sh
CH344	Physical Chemistry Laboratory II	1sh
CH410	Advanced Inorganic Chemistry Laboratory	1sh
CH411	Advanced Inorganic Chemistry	3sh

Controlled electives:

Additional Chemistry electives from list: 6sh (2)

[CH331](#), [CH335](#), [CH351](#), [CH376](#), [CH412](#), [CH421](#), [CH441](#), [CH498](#)

Other Requirements: 7-14

Additional math: [CO110](#) and one additional course 7-8sh

from [MA171](#), [MA227](#), [MA241](#), [MA342](#)

Pre-Med program (3)

Foreign Language Intermediate Level (4)

0-6sh

Free Electives: (5)

9-17

Total Degree Requirements:

124

- (1) Those who took [CH111](#) and [CH112](#) should take [CH116](#) for ACS certified B.S.
- (2) [CH498](#) (2sh) required for American Chemical Society certification.
- (3) Chemistry/Pre-Med program requires [BI111](#), [BI112](#), [BI263](#), [BI331](#), [BI352](#), and [CH351](#).
- (4) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (5) Pre-med requires Biology sequence 18sh.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:03 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science in Education-Chemistry (*)

Liberal Studies: As outlined in Liberal Studies section 56-57

with the following specifications:

Mathematics: [MA121](#)

Natural Science: [PY111](#)/[PY121](#)-[PY112](#)/[PY122](#)

Social Science: [PC101](#)

Liberal Studies electives: [MA122](#), no courses with CH prefix

College: 30

Professional education sequence: (1)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED421	Student Teaching	12sh
ED442	School Law	1sh
ED451	Teaching Science in the Secondary School	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measures	3sh
FE202	American Education in Theory and Practice	3sh

Major: 33-35

Required courses:

CH113	Concepts in Chemistry	4sh
CH114	Basic Inorganic Chemistry	4sh
CH231	Organic Chemistry I	4sh
CH232	Organic Chemistry II	4sh
CH321	Quantitative Analysis	4sh
CH322	Instrumental Analysis	4sh
CH341	Physical Chemistry I	4sh
CH343	Physical Chemistry Laboratory I	1sh
CH498	Problems in Chemistry	1-2sh

Controlled electives:

One additional chemistry course from list: 3-4sh

[CH342](#), [CH351](#), [CH411](#)

Other Requirements:

4

[BI111](#) Principles of Biology I 4sh

Free Electives:

0-1

(#)Total Degree Requirements:

124-126

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:04 PM on 7/26/97

The College of Natural Sciences and Mathematics

Minor-Chemistry

Minor: 20

Required courses:

CH111	General Chemistry I	4sh
CH112	General Chemistry II	4sh
CH231	Organic Chemistry I	4sh
CH232	Organic Chemistry II	4sh
One chemistry elective from CH321 , CH323 , CH351		4sh

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:05 PM on 7/26/97

The College of Natural Sciences and Mathematics

Department of Computer Science

William W. Oblitey, Chairperson; Buterbaugh, Cross, Cunningham, Grove, McKelvey, Micco, Shubra, Sweeney, Watts, Wolfe; and professor emeritus Tompkins

Degrees offered in the Department of Computer Science are the Bachelor of Science and the Bachelor of Arts in Computer Science. The programs are designed primarily to prepare graduates for productive work in highly computer-oriented areas of business, government, and industry. In recent years, students graduating from the program have attained their first jobs in business applications, programming and systems analysis, computer software development, scientific and applied mathematical programming, and other computer-related areas and have gone to graduate school.

In a rapidly developing field such as Computer Science, it is important that the graduate's education be broad and fundamental so that new trends can more readily be followed. Our goal is to balance fundamentality and breadth with sufficient supervised practice so that our graduates are productive at the time they graduate but ready and willing to change with the field.

Most applied computer scientists work in cooperation with professionals trained in other areas and with managers. Hence, the ability to work and communicate with others of different educational backgrounds is an important characteristic. To that end, we encourage Computer Science majors to take a strong minor (or area concentration) in a second area of interest. Some students may wish to double major. Majors in other disciplines at IUP are also welcome to take Computer Science courses for which they are qualified or a Computer Science minor.

Students majoring in Computer Science should set their goals beyond simple programming and should be preparing

1. to program well, both in design and implementation phases, and document what they have programmed
2. to analyze real-world problems in preparation for program design and implementation
3. to manage activities that are strongly computer dependent
4. to improve the tools that programmers and systems analysts use, i.e., to develop
 - a. better machine systems
 - b. better software systems
 - c. better languages for communicating with machines
 - d. better methods for solving intractable problems
5. to teach about computers at college or high school level
6. to advance the fundamental theory of digital information processors.

The College of Natural Sciences and Mathematics

Bachelor of Arts-Computer Science

Liberal Studies: As outlined in Liberal Studies section 55-58

with the following specifications:

Mathematics: [MA123](#) (or [MA121-MA122](#) or [MA127](#))

Liberal Studies electives: [MA216](#) (or [MA214](#) or [MA217](#)),

no courses with CO prefix

Major: 35

Required courses:

CO105	Fundamentals of Computer Science	3sh
CO110	Problem Solving and Structured Programming	3sh
CO220	Applied Computer Programming	3sh
CO300	Assembly Language Programming	3sh
CO310	Data Structures	3sh
CO315	Large File Organization and Access	3sh
CO380	Seminar on the Computer Profession	1sh
CO480	Seminar on Technical Topics	1sh

Controlled electives: Select 9sh (1)

CO250	Introduction to Numerical Methods	3sh
CO319	Software Engineering Concepts	3sh
CO320	Software Engineering Practice	3sh
CO345	Data Communications	3sh
CO355	Computer Graphics	3sh
CO360	IBM Job Control Language	1sh
CO362	UNIX and C	3sh
CO481	Special Topics in Computer Science (as approved for majors)	1-4sh
CO482	Independent Study	1-4sh
CO493	Internship in Computer Science	12sh (2)
Upper-level Electives by Categories		6sh (3)

Computer Architecture: [CO410](#)

Theory of Languages: [CO419](#), [CO420](#), [CO424](#), [CO460](#)

Systems Programming: [CO430](#), [CO432](#)

Numerical Methods: [CO450](#)

Artificial Intelligence: [CO405](#)

Data Base Management: [CO441](#)

Other Requirements: 6-22

Additional Writing:

[EN322](#) Technical Writing 3sh

Foreign Language Intermediate Level 0-6sh (4)

Additional Mathematics: 3-13sh (5)

[MA123](#) Calculus for Physics and Chemistry
([MA121](#) and [MA122](#) or [MA127](#) may be substituted)

[MA216](#) Probability and Statistics for Natural Sciences
([MA363](#) and [MA364](#), [MA214](#) and [MA417](#), or [MA217](#) and
[MA417](#) may be substituted)

[MA219](#) Discrete Mathematics

Free Electives: 9-28

Total Degree Requirements: 124

- (1) Select at least 9sh from the list of controlled electives and/or the list of upper-level electives. Note: Only 4sh of [CO493](#) may be counted toward these 9sh.
- (2) [CO493](#) may be selected in either the second semester of the junior year or the first semester of the senior year. If [CO493](#) is selected and approved, [CO380](#) should be taken in the immediately preceding semester.
- (3) Select at least two additional courses, from at least two different categories, from the list of upper-level electives.
- (4) Foreign Language intermediate-level courses are counted as Liberal Studies electives.
- (5) Any of the Mathematics options satisfy the Learning Skill requirement, and one course may be counted as a Liberal Studies elective. The three-credit minimum applies to students who take [MA123](#) and [MA216](#). The thirteen-credit maximum applies to students who take the [MA121-MA122](#) calculus option and the [MA363-MA364](#) statistics option.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:12 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science-Computer Science/Applied Computer Science Track

Liberal Studies: As outlined in Liberal Studies section 54-58

with the following specifications:

Mathematics: [MA123](#) (or [MA121-MA122](#) or [MA127](#))

Liberal Studies electives: [MA216](#) (or [MA214](#) or [MA217](#)),

no courses with CO prefix

Major: 38

Required courses:

CO105	Fundamentals of Computer Science	3sh
CO110	Problem Solving and Structured Programming	3sh
CO220	Applied Computer Programming	3sh
CO300	Assembly Language Programming	3sh
CO310	Data Structures	3sh
CO315	Large File Organization and Access	3sh
CO319	Software Engineering Concepts	3sh
CO380	Seminar on the Computer Profession	1sh
CO441	Data Base Management	3sh
CO480	Seminar on Technical Topics	1sh

Select one of the following two courses:

CO320	Software Engineering Practice	3sh (1)
CO493	Internship in Computer Science	12sh (2)

Controlled electives: Select 6sh (3)

CO250	Introduction to Numerical Methods	3sh
CO345	Data Communications	3sh
CO355	Computer Graphics	3sh
CO360	IBM Job Control Language	1sh
CO362	UNIX and C	3sh
CO481	Special Topics in Computer Science	1-4sh

(only sections approved for majors)

[CO485](#) Independent Study 1-4sh

Upper Level Electives by Categories: Select 3sh (4)

Computer Architecture: [CO410](#)

Theory of Languages: [CO419](#), [CO420](#), [CO424](#), [CO460](#)

Systems Programming: [CO430](#), [CO432](#)

Numerical Methods: [CO450](#)

Artificial Intelligence: [CO405](#)

Other Requirements: 6-22

Additional Writing:

[EN322](#) Technical Writing 3sh

Foreign Language Intermediate Level 0-6sh (5)

Additional Mathematics: 3-13sh (6)

[MA123](#) Calculus I for Physics and Chemistry
([MA121](#) and [MA122](#) or [MA127](#) may be substituted)

[MA216](#) Probability and Statistics for Natural Sciences
([MA363](#) and [MA364](#), [MA214](#) and [MA417](#), or [MA217](#) and
[MA417](#) may be substituted)

[MA219](#) Discrete Mathematics

Complete a minor from one of the following areas: 6-18

- a) From any department in the College of Natural Sciences
and Mathematics 6-18sh
- b) From designated Business courses 18sh
- c) From designated Economics courses 15sh
- d) From designated Geography courses 15sh

Free Electives: 0-20

Total Degree Requirements: 124

- (1) Credit for both [CO320](#): Software Engineering Practice and [CO493](#): Internship in Computer Science may be counted toward the degree, but only one will be counted toward the major requirements.
- (2) [CO493](#) may be selected in either the second semester of the junior year or the first semester of the senior year. If [CO493](#) is selected and approved, [CO380](#) may be taken in the immediately preceding semester.
- (3) Select at least 6sh from the list of controlled electives and/or the list of upper-level electives.
- (4) Select at least one additional course from the list of upper-level electives.
- (5) Foreign Language intermediate-level courses are counted as Liberal Studies electives.
- (6) Any of the Mathematics options satisfy the Learning Skill requirement, and one course may be counted as a Liberal Studies elective. The three-credit minimum applies to students who take [MA123](#) and [MA216](#). The thirteen-

credit maximum applies to students who take the [MA121-MA122](#) calculus option and the [MA363-MA364](#) statistics option.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:57 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science-Computer Science/Languages and Systems Track

Liberal Studies: As stated in Liberal Studies Requirements 54-58

with the following specifications:

Mathematics: [MA123](#) or [MA127](#)

Liberal Studies electives: [MA124](#),

no course with CO prefix

Major:

Required courses:

40

CO105	Fundamentals of Computer Science	3sh
CO110	Problem Solving and Structured Programming	3sh
CO220	Applied Computer Programming	3sh
CO300	Assembly Language Programming	3sh
CO310	Data Structures	3sh
CO315	Large File Organization and Access	3sh
CO319	Software Engineering Concepts	3sh
CO380	Seminar on the Computer Profession	1sh
CO410	Processor Architecture and Micro Programming	3sh
CO420	Modern Programming Languages	3sh
CO432	Introduction to Operating Systems	3sh
CO480	Seminar on Technical Topics	1sh

Controlled electives: Select 9sh (1)

CO250	Introduction to Numerical Methods	3sh
CO320	Software Engineering Practice	3sh (2)
CO345	Data Communications	3sh
CO355	Computer Graphics	3sh
CO360	IBM Job Control Language	1sh
CO362	UNIX and C	3sh
CO405	Artificial Intelligence	3sh
CO419	Software Development and Ada	3sh

CO424	Compiler Construction	3sh
CO430	Introduction to Systems Programming	3sh
CO441	Data Base Management	3sh
CO450	Applied Numerical Methods	3sh
CO460	Theory of Computation	3sh
CO481	Special Topics in Computer Science (as approved for majors)	1-4sh
CO482	Independent Study	1-4sh
CO493	Internship in Computer Science	12sh (3)

Other Requirements: 13-21

Additional writing:

EN322	Technical Writing	3sh
	Foreign Language Intermediate Level	0-6sh (4)
Mathematics:	A minor in mathematics	10-12sh (5) (6)

including the following courses

MA123	Calculus I for Physics and Chemistry (MA127 may be substituted)
MA124	Calculus II for Physics and Chemistry (MA128 may be substituted)
MA171	Introduction to Linear Algebra
MA216	Probability and Statistics for Natural Sciences (MA363 and MA364 , MA214 and MA417 , or MA217 and MA417 may be substituted)
MA219	Discrete Mathematics

Free Electives: 5-23

Total Degree Requirements: 124

(1) Select at least 9sh from the list of controlled electives. Note: Only 4sh of [CO493](#) may be counted toward these 9sh.

(2) Credit for both [CO320](#): Software Engineering Practice and [CO493](#): Internship in Computer Science may be counted toward the degree, but only one will be counted toward the major requirements.

(3) [CO493](#) may be selected in either the second semester of the junior year or the first semester of the senior year. If [CO493](#) is selected and approved, [CO380](#) may be taken in the immediately preceding semester.

(4) Foreign Language intermediate-level courses are counted as Liberal Studies electives.

(5) Credit for [MA123/MA127](#) and [MA124/MA128](#) counted in Liberal Studies.

(6) Any of the Mathematics options satisfy the Learning Skill requirement, and one course may be counted as a Liberal Studies elective. The three-credit minimum applies to students who take [MA123](#) and [MA216](#). The thirteen-credit maximum applies to students who take the [MA121-MA122](#) calculus option and the [MA363-MA364](#) statistics

option.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:59 PM on 7/26/97

The College of Natural Sciences and Mathematics

Minor-Computer Science

Minor: 15

Required courses:

CO electives 15sh(1)(2)

- (1) The minor in Computer Science consists of 15 semester hours of CO electives. At least 9 semester hours of the 15 must be from CO courses numbered higher than 200.
- (2) [CO101](#) Microbased Computer Literacy is an appropriate entry course for minors or for students who wish to take only one course.
- (3) See Computer Science minor advisor for suggestions.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:20 PM on 7/26/97

The College of Natural Sciences and Mathematics

Department of Geoscience

Frank W. Hall II, Chairperson; Cercone, Clark, Hovan, Park, Richardson, Sutton, Taylor; and professor emeritus Prince

The Geoscience Department provides curricula in areas of natural science dealing with and related to the earth and its environment by offering courses in astronomy, geology, meteorology, and oceanography.

In addition to on-campus instruction, opportunities exist for summer coursework and research in geology and oceanography at the Marine Science Consortium located at Wallops Island, Virginia.

Degrees offered by the Department of Geoscience are the Bachelor of Science in Geology, the Bachelor of Science in Environmental Geoscience, and the Bachelor of Science in Education with a major in Earth and Space Science or with a major in General Science. The first two degree programs are under the College of Natural Sciences and Mathematics, and the last two are under the College of Education.

The B.S. degree in Geology is, in a sense, a dual-purpose degree program. Not only is it designed to graduate well-trained, competent geologists, able to compete for positions as professional geologists in the job market; it is also designed to provide the student with the necessary allied science and mathematics background to enable the good student to qualify for admission to the graduate school of his/her choice in Geology.

The B.S. degree in Environmental Geoscience offers the student a broad-based science background. In addition to a firm foundation in Geology-Geoscience courses, the student will also acquire a background in Biology and Chemistry. This will provide thorough training for the rapidly growing field of Environmental Geoscience, both for students who plan to pursue postgraduate training in this field and for those who plan to enter directly into jobs in federal and state agencies and private consulting firms.

The department recognizes as one of its functions the role of serving the field of public education by the preparation of qualified and certified teachers of earth and space science. Also, because of the interdisciplinary nature of both the department and the requirements for preparing general science teachers, the department administers the program designed to lead to general science certification and includes majors of that category as department members.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:13 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science-Geology

Liberal Studies: As outlined in Liberal Studies section 56-57

with the following specifications:

Mathematics: [MA123](#)

Natural Science: [CH111/CH112](#) or [CH113/CH114](#)

Liberal Studies electives: [MA124](#),

no courses with GS elective

Major: 33

Required courses: (1)

GS121	Physical Geology	3sh
GS122	Physical Geology Laboratory	1sh
GS131	Historical Geology	3sh
GS132	Historical Geology Laboratory	1sh
GS321	Mineralogy	3sh
GS322	Igneous and Metamorphic Petrology	3sh
GS325	Structural Geology	3sh
GS326	Field Geology or summer field course (offered by other universities)(1,2)	3sh
GS330	Paleontology	3sh
GS362	Plate Tectonics	3sh
GS411	Sedimentary Petrology	3sh
GS412	Stratigraphy or GS327 Geomorphology	3sh
GS480	Geoscience Seminar	1sh

Controlled electives: 9sh

GS courses 300 or above

Other Requirements: 8-14

Additional Science:

PY111	Physics I Lecture	4sh
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[PY112](#) Physics II Lecture 4sh
Foreign Language Intermediate Level (3,4) 0-6sh

Free Electives: 11-18

Total Degree Requirements: 124

- (1) Summer field camp in geology (5-9sh) is strongly recommended.
- (2) A maximum of six credits from approved summer field camp may apply to a required core and controlled electives
- (3).
- (3) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (4) Six credits of computer languages may be used to meet foreign language requirement: [CO220](#), [CO310](#), or other higher-level CO courses with departmental permission in consultation with the Computer Science Department.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 9:01 PM on 7/26/97

The College of Natural Sciences and Mathematics

Minor-Geology

The minor in Geology consists of 17 semester hours. Required are [GS121](#): Physical Geology/[GS122](#): Physical Geology Lab and [GS131](#): Historical Geology/[GS132](#): Historical Geology Lab. Three upper-level (300 or higher) courses in geology (total nine credits) will make up the remaining requirements for the minor in Geology totaling seventeen credits.

Minor: 17

Required courses:

GS121	Physical Geology	3sh
GS122	Physical Geology Laboratory	1sh
GS131	Historical Geology	3sh
GS132	Historical Geology Laboratory	1sh
Three upper-level (300 or higher) courses in Geology		9sh

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:21 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science-Environmental Geoscience

Liberal Studies: As outlined in Liberal Studies section 56-57

with the following specifications:

Mathematics: [MA123](#)

Natural Science: [CH111/CH112](#) or [CH113/CH114](#)

Liberal Studies electives: [MA124](#),

no courses with GS prefix

Major: 27

Required courses:

GS121	Physical Geology	3sh
GS122	Physical Geology Laboratory	1sh
GS131	Historical Geology	3sh
GS132	Historical Geology Laboratory	1sh
GS310	Environmental Geology	3sh
GS321	Mineralogy	3sh
GS322	Igneous and Metamorphic	3sh
GS325	Structural Geology	3sh
GS331	Hydrogeology	3sh
GS332	Geochemistry	3sh
GS480	Geoscience Seminar	1sh

Other Requirements: 15

Biology sequence:

BI111	Principles of Biology	4sh
BI250	Principles of Microbiology	3sh

Chemistry sequence:

CH231	Organic Chemistry	4sh
CH323	Analytical Methods	4sh

Controlled electives:	8-9sh
BI112 Principles of Biology II	4sh
BI272 Conservation of Plant/Animal Resources	3sh
BI321 Environmental Protection I	3sh
BI362 Ecology	3sh
CH322 Instrumental Analysis	4sh
CH341 Physical Chemistry I	4sh
CO110 Problem Solving and Structured Programming	3sh
CO220 Applied Computer Programming	3sh
CO250 Introduction to Numeric Methods	3sh
CO310 Data Structures	3sh
GE314 Map and Photograph Interpretation	3sh
GE415 Remote Sensing	3sh
GS326 Field Geology	3sh
GS327 Geomorphology	3sh
GS411 Sedimentary Petrology	3sh
GS432 Coal Geology	3sh
GS440 Subsurface Geology	3sh
PY111/PY121 Physics I Lecture and Lab	4sh (1)
PY112/PY122 Physics II Lecture and Lab	4sh
Foreign Language Intermediate Level (2,3)	0-6sh

Free Electives: 10-18

Total Degree Requirements: 124

- (1) Students who plan to pursue an advanced degree in environmental geoscience are strongly advised to take the physics sequence as their controlled electives.
- (2) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (3) Six credits of computer languages may be used to meet foreign language requirement: [CO220](#), [CO310](#), or other higher-level CO courses with departmental permission in consultation with the Computer Science Department.

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The College of Natural Sciences and Mathematics

Minor-Geoscience

The requirement for the minor in Geoscience will be 16 semester hours of geoscience, taken within the following framework. Students must complete one course in each discipline within the department: Astronomy, 3 semester hours; Geology, 4 semester hours; Meteorology, 3 semester hours; Oceanography, 3 semester hours, for a total of 13 semester hours. The additional 3 semester hours can be taken in any one of the aforementioned disciplines. Liberal Studies nonlaboratory [GS141](#), [GS150](#), [GS151](#), and [GS221](#) will not be acceptable toward the minor in Geoscience.

Minor: 16

Required courses:

One course from each of the following:

Astronomy	3sh
Geology	4sh
Meteorology	3sh
Oceanography	3sh
Additional 3sh from one of the above fields (300 level or higher)	3sh

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:22 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science in Education-Earth and Space Science (*)

Liberal Studies: As outlined in Liberal Studies section 55-56

with the following specifications:

Mathematics: [MA121](#)

Natural Science: [CH111-CH112](#)

Social Science: [PC101](#)

Liberal Studies electives: [CO101](#),

no courses with GS prefix

College: 30

Professional Education Sequence: (1)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experiences I	1sh
ED342	Pre-student Teaching Clinical Experiences II	1sh
ED451	Teaching Science in the Secondary Schools	3sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh
FE202	American Education in Theory and Practice	3sh

Major: 39

Required courses:

BI103	General Biology I	4sh
GS121	Physical Geology	3sh
GS122	Physical Geology Laboratory	1sh
GS131	Historical Geology	3sh
GS132	Historical Geology Laboratory	1sh
GS341	Solar System	3sh
GS342	Stellar Astronomy	3sh
GS350	Operation of the Planetarium	1sh

GS361	Oceanography	3sh
GS371	Meteorology I	3sh
PY111	Physics I Lecture	3sh
PY112	Physics II Lecture	3sh
PY121	Physics I Lab	1sh
PY122	Physics II Lab	1sh

Controlled electives:

Geology electives (not [GS110](#), [GS141](#)) 6sh

Other Requirements: 0

Free Electives: 0

Total Degree Requirements: 124-125

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 9:06 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science in Education-General Science Education (*)

Liberal Studies: As outlined in Liberal Studies section 55-56

with the following specifications:

Mathematics: [MA121](#) (1)

Natural Science: [CH111-CH112](#)

Social Science: [PC101](#)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#),

no courses with prefix of chosen track in major

College: 30

Professional Education sequence: (1)

CM301	Instructional Media	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
ED451	Teaching Science in the Secondary Schools	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh
FE202	American Education in Theory and Practice	3sh

Major: 39-40

Required courses:

BI103	General Biology I	4sh
BI104	General Biology II	4sh
GS111	Earth Science for Educators I	3sh
GS112	Earth Science for Educators I Lab	1sh
GS113	Earth Science for Educators II	3sh
GS114	Earth Science for Educators II Lab	1sh
PY111	Physics I Lecture	3sh
PY112	Physics II Lecture	3sh

PY121	Physics I Lab	1sh
PY122	Physics II Lab	1sh

Controlled electives: **15-16**

Biology track: [BI210](#), [BI220](#), [BI250](#), [BI272](#), [BI480](#), BI elective

Chemistry track: [CH231](#), [CH321](#), [CH351](#), [CH232](#), or [CH340](#) or [CH341](#)

Geoscience track: [GS121](#), [GS123](#), [GS131](#), [GS341](#) or [GS342](#), [GS361](#), [GS371](#)

Physics track: [PY222](#), [PY231](#), [PY242](#), [PY331](#), [PY350](#) (2)

Other Requirements: **0**

Free Electives: **0**

(#)Total Degree Requirements: **124-126**

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

(2) Note: If Physics track is elected, [MA123](#) and [MA124](#) are required.

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 9:08 PM on 7/26/97

The College of Natural Sciences and Mathematics

Department of Mathematics

Gerald M. Buriok, Chairperson; Adkins, Alarcon, Anderson, Angelo, Baker, Balenovich, Bertness, Broughton, Burkett, Busovicki, Davis, Donley, Dubovsky, Early, Enderson, Feldman, Frank, Gorman, Maderer, Massey, Mitchell, Morgan, Myers, Peterson, Ray, Reber, Rettig, Scholz, Shawer, Shepler, Steelman, Stempien, G. Stoudt, R. Stoudt, Zhang; and professors emeriti Arms, Duncan, Gibson, Hartman, Hoyt, D. McBride, R. McBride, Morrell, Mueller, Oakes, Shafer, E. Smith, W. Smith, Stilwell, Willison, Wolfe, Woodard

The Mathematics Department prepares students for work in industry, graduate school mathematics, and teaching. Degrees offered by the department are the Bachelor of Science in Mathematics, the Bachelor of Science in Applied Mathematics, and the Bachelor of Science in Education in Mathematics Education. The first two degree programs are offered within the College of Natural Sciences and Mathematics, and the third is in conjunction with the College of Education. The department also offers a minor in Mathematics and a minor in Applied Statistics.

The program for a mathematics major in the College of Natural Sciences and Mathematics is two-phased. A student may pursue a degree in Applied Mathematics or Mathematics. Those completing a degree in Mathematics will be prepared to continue their studies in mathematics in graduate school, though some may enter business, industry, or government service. Those students receiving a degree in Applied Mathematics will be primarily prepared to enter business, industry, or government service in an area where mathematics or computer science is used or to continue their studies in applied mathematics or computer science in graduate school. This student would not be expected to continue graduate studies in pure mathematics.

The Mathematics Department shares in a joint degree with the Economics Department. Students with ability and interest in economics discover that a solid background in mathematics is an essential prerequisite for advanced theoretical and applied work in the discipline. Similarly, students with talent and interest in mathematics find economics an excellent field in which to employ their skills and knowledge. The Bachelor of Arts in Mathematics/Economics allows students to combine these complementary subjects in a joint degree program administered cooperatively by the Departments of Mathematics and Economics. Enrolled students will be assigned an advisor in each department.

Those completing the program will have an exceptional background for graduate study in economics and such related fields as business, public policy, or operations research. They also will be ideally prepared to fill a wide variety of technical and quantitative positions in both government and private industry.

The program leading to the B.S. in Education in Mathematics Education prepares the student for teaching mathematics in junior or senior high school. Many graduates, however, continue their formal education in mathematics at the graduate level or work in government or industry.

Elementary education majors may elect to take a concentration of at least 15 hours in mathematics. The program of courses for this concentration is as follows: in addition to [MA151](#) and [MA152](#), select 9 hours from the following courses: [MA317](#), [MA420](#), [MA456](#), [MA457](#), [MA458](#), [MA459](#), [MA471](#), or [MA481](#).



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The College of Natural Sciences and Mathematics

Bachelor of Science-Applied Mathematics

Liberal Studies: As outlined in Liberal Studies section 50-52

with the following specifications:

Mathematics: (included in major)

Liberal Studies electives: no courses with MA prefix

Major: 40-41

Required courses:

MA127	Calculus I	4sh
MA128	Calculus II	4sh
MA171	Introduction to Linear Algebra	3sh
MA216	Probability and Statistics for Natural Science	4sh
MA227	Calculus III	4sh
MA241	Differential Equations	3sh
MA271	Introduction to Algebraic Structures	3sh

Controlled electives:

Two courses from list: 6sh

[MA371](#), [MA421](#), [MA422](#), [MA423](#), [MA424](#), [MA427](#), [MA476](#), [MA477](#)

One of the following two-course sequences: 6-7sh

[MA342/CO450](#); [MA363/MA364](#); [MA445/MA446](#)

A minimum of three additional semester hours from the list of controlled electives above or the following:

[MA353](#), [MA425](#), [MA447](#), [MA465](#), [MA481](#) 3sh

Other Requirements: 6-12

Computer Science:

[CO110](#) Problem Solving and Structured Programming 3sh

[CO250](#) Introduction to Numerical Methods 3sh

Foreign Language Intermediate Level (1) 0-6sh

Free Electives:

19-28

Total Degree Requirements:

124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
 - (2) A student may select courses to fulfill requirements for specialized track.
 - a. Actuarial/Statistics: [MA363](#), [MA364](#), [MA421](#), [MA422](#), [MA446](#), [MA465](#)
 - b. Scientific/Engineering: [MA241](#), [MA342](#), [MA363](#), [MA364](#), [MA371](#), [MA423](#), [MA445](#), [MA446](#)
 - c. Math Analyst: [MA241](#), [MA342](#), [MA363](#), [MA364](#), [MA371](#), [MA445](#) or [MA446](#), [MA476](#), CO minor
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The College of Natural Sciences and Mathematics

Bachelor of Science-Mathematics

Liberal Studies: As outlined in Liberal Studies section 50-52

with the following specifications:

Mathematics: (included in major)

Liberal Studies electives: no courses with MA prefix

Major: 40-41

Required courses:

MA127	Calculus I	4sh
MA128	Calculus II	4sh
MA171	Introduction to Linear Algebra	3sh
MA216	Probability and Statistics for Natural Science	4sh
MA227	Calculus III	4sh
MA241	Differential Equations	3sh
MA271	Introduction to Algebraic Structures	3sh

Controlled electives:

Four courses from list: 12sh

[MA371](#), [MA421](#), [MA422](#), [MA423](#), [MA424](#), [MA427](#),
[MA476](#), [MA477](#)

A minimum of three additional semester hours 3-4sh

from the list of controlled electives above

or the following: [MA342](#), [MA350](#), [MA353](#), [MA355](#),

[MA363](#), [MA364](#), [MA425](#), [MA445](#), [MA446](#), [MA447](#), [MA465](#), [MA481](#)

Other Requirements: 3-9

Computer Science:

[CO110](#) Problem Solving and Structured Programming 3sh

Foreign Language Intermediate Level (1) 0-6sh

Free Electives: 22-31

Total Degree Requirements:

124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 9:12 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Arts-Economics/Mathematics

Liberal Studies: As outlined in Liberal Studies section **47-49**

with the following specifications:

Social Science: [EC121](#) (included in major)

Mathematics: [MA127](#) (included in major)

Electives: Intermediate foreign language,
no course with EC or MA prefix.

Major: **54-56**

Core:

EC121	Principles of Economics I	3sh
EC122	Principles of Economics II	3sh
EC421	Macroeconomics Analysis	3sh
EC422	Microeconomics Analysis	3sh
MA127	Calculus I	4sh
MA128	Calculus II	4sh
MA227	Calculus III	4sh
MA171	Introduction to Linear Algebra	3sh
MA216 or EC355	Statistics	3-4sh

Economics Electives: **12**

Students are especially encouraged to take [EC334](#) (Economics of Corporate Decisions) and [EC356](#) (Econometrics), but any course except [EC101](#) (Basic Economics) may be used. [EC493](#) (Internship) may be counted only with the approval of the program coordinator.

Mathematics Electives: **12-13**

At least one of the following two-semester sequences:

[MA241](#) Differential Equations and [MA371](#) Linear Algebra

[MA363](#) and [MA364](#) Mathematical Statistics I and II

[MA445](#) and [MA446](#) Programming and Probabilistic Models in O.R.

Two additional courses either from the above or from the following:

[MA271](#) Introduction to Algebraic Structures

[MA342](#) Advanced Mathematics for Applications

[MA417](#) Statistical Applications **or**

[MA418](#) Sampling Survey Theory

[MA421](#) Advanced Calculus I

[MA422](#) Advanced Calculus II

[MA423](#) Complex Variables I

[MA425](#) Applied Mathematical Analysis I

[MA427](#) Introduction to Topology

[MA465](#) Topics in Statistics

[MA476](#) Abstract Algebra I

[MA477](#) Abstract Algebra II

Other Requirements: 0

Free Electives: 19-23

Total Degree Requirements: 124

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The College of Natural Sciences and Mathematics

Bachelor of Science in Education-Mathematics Education (*)

Liberal Studies: As outlined in Liberal Studies section 50-52

with the following specifications:

Mathematics: (included in major)

Social Science: [PC101](#)

Liberal Studies electives: no courses with MA prefix

College: 30

Professional Education sequence: (1)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
ED456	Teaching Mathematics in the Secondary Schools	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh
FE202	American Education in Theory and Practice	3sh

Major: 35-39

Required courses:

MA117	Principles of Math	3sh
MA171	Introduction to Linear Algebra	3sh
MA271	Introduction to Algebraic Structures	3sh
MA353	Theory of Numbers	3sh
MA355	Foundations of Geometry I	3sh
MA350	History of Mathematics	2sh
MA460	Computers/Calculators in Secondary School	3sh
MA452/MA453/MA454	Math Seminar	1sh

One Calculus sequence: (A or B)

A.	MA127	Calculus I	4sh (2)
	MA128	Calculus II	4sh
	MA227	Calculus III	4sh
B.	MA123	Calculus I for Physics/Chemistry	4sh
	MA124	Calculus II for Physics/Chemistry	4sh

One Statistics sequence: (A or B)

A.	MA363	Mathematical Statistics I	3sh (2)
	MA364	Mathematical Statistics II	3sh
B.	MA216	Probability/Statistics for Natural Science	4sh

Other Requirements:

CO205	Programming Languages for Secondary Schools	3sh	3
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Free Electives:

0-6

Total Degree Requirements:

124

(*). See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

(2) If neither Option A or B has been chosen, then one of [MA371](#), [MA421](#), [MA445](#), and [MA476](#) is required.

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The College of Natural Sciences and Mathematics

Minor in Mathematics

The minor in Mathematics consists of a minimum of 17 semester hours in mathematics. The minor in Mathematics may offer preparation for advanced study in areas such as Economics, Computer Science, Physics, and other natural sciences. Any student who is required to take a year of calculus should consider this minor.

Required courses: 17sh

[MA121](#) and [MA122](#) or [MA123](#) and [MA124](#)

Controlled electives 9sh (1)

Other courses for math majors, [MA216](#) and [MA219](#) may be included

(1) The following courses are excluded: [MA100](#), [MA101](#), [MA102](#), [MA110](#), [MA117](#), [MA214](#), [MA217](#), [MA417](#), [MA418](#), and courses for the elementary education concentration in mathematics.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:25 PM on 7/26/97

The College of Natural Sciences and Mathematics

Minor in Applied Statistics

The minor in Applied Statistics, consisting of seventeen credits, may be of interest to students who are required to take a calculus course and a course in probability and statistics. This includes, but is not limited to, students in the Eberly College of Business, Safety Science majors, and Computer Science majors.

A cumulative QPA of at least 2.0 in MA courses is required for a minor in Mathematics or Applied Statistics. The Mathematics Department will not certify a minor for a transfer student unless at least two of the courses counting for the minor have been completed in the IUP Mathematics Department. Minor-Applied Statistics

The minor in Applied Statistics consists of 17 semester hours in Mathematics selected as follows:

- (a) Introductory calculus course: [MA121](#), [MA123](#), or [MA127](#)
- (b) Introductory statistics course: [MA214](#), [MA216](#), or [MA217](#)
- (c) [MA417](#)
- (d) [MA418](#)

The remaining hours may be chosen from the following:

- (a) a second calculus course: [MA122](#), [MA124](#), or [MA128](#)
- (b) [MA171](#)
- (c) Any course for mathematics majors approved by the Applied Statistics Advisor.

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The College of Natural Sciences and Mathematics

Natural Science

Allan T. Andrew, Coordinator

The program leading to the Bachelor of Science degree in Natural Science is designed to prepare students for early admission to professional schools: Optometry, podiatry, chiropractic, physical therapy, pharmacy, and dentistry. Another track prepares students for further study in engineering. The B.S. degree in Natural Science will be earned by students who transfer to professional schools that have an articulation agreement with IUP. In some cases, students interested in obtaining a four-year baccalaureate degree before entering a medical or professional school should enroll in a program of studies leading to a B.A. or B.S. degree in the departments of Biology or Chemistry. Students considering a professional career in a high-technology business or industry may wish to obtain a foundation in the Natural Sciences while using their free electives to pursue additional work in areas such as Economics, Pre-Law, or a minor in Business Administration. The B.S. in Natural Science may not be used for a second major or a second degree by majors in the College of Natural Sciences and Mathematics. For further information about these programs contact the Office of the Dean of the College of Natural Sciences and Mathematics.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:17 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science-Natural Science

Liberal Studies: As outlined in Liberal Studies section **43-44**

with the following specifications:

Mathematics: included in major

Natural Science: included in major

Liberal Studies electives: no courses with SC prefix

Synthesis: not required for three-year students who transfer to a professional school with an articulation agreement

Writing Intensive: one course required for three-year students who transfer to a professional school with an articulation agreement

Major: **44-46**

Controlled electives: (*)

BI courses 8sh

CH courses 8sh

PY courses 8sh

MA courses 7-8sh

Computer science and/or advanced courses in Biology, Chemistry, Mathematics, or Physics 13-14sh

Other Requirements: **0-9**

Foreign Language Intermediate Level (1) 0-6sh

[CO101](#) Microbased Computer Literacy (2) 0-3sh

Free Electives: **25-37**

Total Degree Requirements: **124**

- (*) Preprofessional advisors will outline the courses required for admission to a professional school.
 - (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
 - (2) Not required for tracks which include [CO110](#) or [CO250](#); may also be included in Liberal Studies electives.
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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 9:17 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science - Natural Science/Pre-Chiropractic Track (*)

Liberal Studies: As outlined in Liberal Studies section 52-55

with the following specifications:

Mathematics: [MA121](#)

Natural Science: [CH111-CH112](#)

Social Science: [PC101](#), or non-Western course

Liberal Studies electives: [CO101](#), [MA217](#),

no courses with SC prefix

Synthesis: not required for three-year students who
transfer to a professional school with an articulation agreement

Writing Intensive: one course required for three-year students
who transfer to a professional school with an articulation agreement

Major: 30

Required courses:

BI111	Principles of Biology I	4sh
BI150	Human Anatomy	3sh
BI151	Human Physiology	4sh
BI241	General Microbiology	3sh
CH231	Organic Chemistry I	4sh
CH232	Organic Chemistry II	4sh
CH351	Biochemistry	4sh
PY111	Physics I Lecture	3sh
PY121	Physics I Lab	1sh
PY112	Physics II Lecture	3sh
PY122	Physics II Lab	1sh

Other Requirements: 4-6

Foreign Language Intermediate Level (1)

Free Electives: 9

Electives to meet minimum of ninety IUP credits and
minimum of 24 credits in Humanities and Social
Sciences for admission to NYCC
Maximum credits for work at NYCC 34sh

Total Degree Requirements:

124

(*) Accelerated three-year New York Chiropractic College (NYCC) program: students are admitted to the NYCC accelerated program only as incoming freshmen. A maximum of thirty-five credits of work may be transferred after the first year at NYCC. Upon the completion of the first year of studies at NYCC, a transcript from NYCC is to be sent by the student to the Dean of the College of Natural Sciences and Mathematics with a note requesting application materials for graduation.

(1) Three or four credits of Intermediate-level Foreign Language may be included in Liberal Studies electives.

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The College of Natural Sciences and Mathematics

Bachelor of Science-Natural Science/Pre-Dentistry Track

Liberal Studies: As outlined in Liberal Studies section 52-55

with the following specifications:

Mathematics: [MA121](#)

Natural Science: [CH111-CH112](#)

Social Science: [PC101](#), or non-Western course

Liberal Studies electives: [MA216](#) or [MA217](#), [CO101](#),

Synthesis: one course

Writing Intensive: two courses, at least on in
College of Natural Sciences and Mathematics

Major: 31

Required courses:

BI111	Principles of Biology I	4sh
BI150	Human Anatomy	3sh
BI151	Human Physiology	4sh
BI241	General Microbiology	3sh
CH231	Organic Chemistry I	4sh
CH232	Organic Chemistry II	4sh
CH351	Biochemistry	4sh
PY111	Physics I Lecture	3sh
PY121	Physics I Lab	1sh
PY112	Physics II Lecture	3sh
PY122	Physics II Lab	1sh

Other Requirements: 4-6

Foreign Language Intermediate Level (1)

Free Electives: 29-34(1)

(1) Student is to work with his/her advisor to select appropriate free electives for professional school. Biochemistry and Ceramics are highly recommended courses.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 9:48 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science-Natural Science/Pre-Engineering Track

Liberal Studies: As outlined in Liberal Studies section 53

with the following specifications:

Mathematics: [MA123](#)

Humanities/Philosophy and Religious Studies: [PH222](#)

Natural Science: [CH111-CH112](#)

Social Science: [EC121](#), [PS101](#) or [PS111](#)

Liberal Studies electives: [MA124](#), no courses with SC prefix

Synthesis: not required for three-year students

Writing Intensive: one course required for three-year students

Major: 33-35

Required courses:

CO110	Problem Solving and Structured Programming	3sh
CO250	Introduction to Numerical Methods	3sh
MA171	Introduction to Linear Algebra	3sh
MA241	Differential Equations	3sh
MA342	Advanced Calculus for Applications	4sh
PY131	Physics I-C Lecture	3sh
PY132	Physics II-C Lecture	3sh
PY141	Physics I-C Lab (or PY121 Lab)	1sh
PY142	Physics II-C Lab	1sh
PY331	Modern Physics (2)	3sh

Controlled electives: One package, depending on program

Chemical Engineering:

CH231	Organic Chemistry I	4sh
CH232	Organic Chemistry II	4sh

Civil Engineering:

MA216	Probability and Statistics for Natural Sciences	4sh
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----- Technical elective 3-4sh

Electrical Engineering:

[MA216](#) Probability and Statistics for Natural Sciences 4sh

----- Technical elective 3-4sh

Industrial Engineering:

[MA216](#) Probability and Statistics for Natural Sciences 4sh

----- Technical elective 3-4sh

Materials Science and Engineering:

[CH231](#) Organic Chemistry I 4sh

[CH232](#) Organic Chemistry II 4sh

Mechanical Engineering:

----- Technical electives 6-8sh

Other Requirements: 0-6

Foreign Language Intermediate Level (1)

Free Electives: 9

Other Requirements: about 64

Two years at University of Pittsburgh School of Engineering (2)

(#)Total Degree Requirements 159-161

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

(2) A 2.5 GPA is required for transfer to the University of Pittsburgh.

(3) For curriculum information about the cooperative program in engineering with Drexel University, refer to the catalog section for the [Physics Department](#).

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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The College of Natural Sciences and Mathematics

Bachelor of Science-Natural Science/Pre-Optometry Track (*)

Liberal Studies: As outlined in Liberal Studies section 52-55

with the following specifications:

Mathematics: [MA121](#)

Natural Science: [CH111-CH112](#)

Social Sciences: [PC101](#), [EC101](#), non-Western course

Liberal Studies electives: [MA216](#) or [MA217](#), [CO101](#),

no courses with SC prefix

Synthesis: not required for three-year students

who transfer to a professional school with an

articulation agreement

Writing Intensive: one course required for three-year

students who transfer to a professional school

with an articulation agreement

Major: 34

Required courses:

BI111	Principles of Biology I	4sh
BI150	Human Anatomy	3sh
BI151	Human Physiology	4sh
BI241	General Microbiology	3sh
CH231	Organic Chemistry I	4sh
CH232	Organic Chemistry II	4sh
CH351	Biochemistry	4sh
PY111	Physics I Lecture	3sh
PY121	Physics I Lab	1sh
PY112	Physics II Lecture	3sh
PY122	Physics II Lab	1sh

Other Requirements: 0-7

Foreign Language Intermediate Level (1)

[MA122](#) Calculus II for Natural and
Social Science and Business 4sh (2)

Free Electives:

29-39

Electives to meet minimum of
ninety IUP credits 0-3sh (3)
Credits from work at Pennsylvania
College of Optometry 34sh

Total Degree Requirements:

124

(* Accelerated three-year Pennsylvania College of Optometry (PCO) program: students are admitted to the PCO accelerated program only as incoming freshmen. A maximum of thirty-four credits of work may be transferred after the first year at PCO. Upon the completion of the first year of studies at PCO, a transcript from PCO is to be sent by the student to the Dean of the College of Natural Sciences and Mathematics with a note requesting application materials for graduation.

- (1) Three or four credits of Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) Required for many schools of optometry; recommended for PCO.
- (3) Additional electives if needed to meet minimum of ninety IUP credits should be selected from the following suggestions: [BI112](#): Principles of Biology II, [BI263](#): Genetics.

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The College of Natural Sciences and Mathematics

Bachelor of Science - Natural Science/Pre-Physical Therapy Track

Liberal Studies: As outlined in Liberal Studies section 52-55

with the following specifications:

Mathematics: [MA121](#)

Natural Science: [CH111-CH112](#)

Social Science: [PC101](#), non-Western course

Liberal Studies electives: [MA217](#), [CO101](#),

no courses with SC prefix

Synthesis: one course

Writing Intensive: two courses, at least one in

College of Natural Sciences and Mathematics

Major: 31

Required courses:

[BI111](#) Principles of Biology I 4sh

[BI150](#) Human Anatomy 3sh

[BI151](#) Human Physiology 4sh

[BI241](#) General Microbiology 3sh

[CH231](#) Organic Chemistry I 4sh

[CH351](#) Biochemistry 4sh

[PY111](#) Physics I Lecture 3sh

[PY121](#) Physics I Lab 1sh

[PY112](#) Physics II Lecture 3sh

[PY122](#) Physics II Lab 1sh

Other Requirements: 4-6

Foreign Language Intermediate Level

Free Electives: 32-37 (1)

(1) A student should work with his/her advisor to select appropriate free electives for professional school.

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The College of Natural Sciences and Mathematics

Bachelor of Science - Natural Science/Pre-Podiatry Track

Liberal Studies: As outlined in Liberal Studies section 52-55

with the following specifications:

Mathematics: [MA121](#)

Natural Science: [CH111-CH112](#)

Social Science: [PC101](#), or non-Western course

Liberal Studies electives: [PY111](#), [MA217](#), [CO101](#),

Synthesis: not required for three-year students who
transfer to a professional school with an articulation agreement

Writing Intensive: one course required for three-year
students who transfer to a professional school with an articulation agreement

Major: 31-34

Required courses:

[BI111](#) Principles of Biology I 4sh

[BI112](#) Principles of Biology II 4sh

[BI263](#) Genetics 3sh

[CH231](#) Organic Chemistry I 4sh

[CH232](#) Organic Chemistry II 4sh

[CH351](#) Biochemistry 4sh

[PY111](#) Physics I Lecture 3sh

[PY121](#) Physics I Lab 1sh

[PY122](#) Physics II Lab 1sh

Controlled electives:

Biology electives 3-6sh

Other Requirements: 4-6

Foreign Language Intermediate Level

Free Electives:

Electives to meet minimum of ninety IUP credits
Credits from work at Pennsylvania College of
Podiatric Medicine 34sh

Total Degree Requirements

124

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:19 PM on 7/26/97

The College of Natural Sciences and Mathematics

Department of Physics

Richard D. Roberts, Chairperson; Fox, Freeman, Gaggini, Giniewicz, Hershman, Karimi, Matolyak, Matous, Numan, Ramsey, Sobolewski, Talwar, Whitson, Wijekumar; and professors emeriti Berry, Buckwalter, McNamara, Riban, Waddell

The goal of the Department of Physics is to prepare fully qualified individuals for productive careers in physics. Three degrees are offered within the College of Natural Sciences and Mathematics: the Bachelor of Science in Physics, the Bachelor of Arts in Physics, and the Bachelor of Science in Applied Physics. These programs offer adequate preparation for graduate study in physics or for research in industrial technology. The applied physics degree provides a strong technical background for work in solid-state electronics or for interdisciplinary research in the areas of computer science, chemistry, biology, and geology. A Bachelor of Science degree in Education with a major in Physics is offered through the College of Education. A two-year pre-engineering program is offered in cooperation with Drexel University wherein students transfer to Drexel after two years. The department also offers a minor in Physics, as well as general science courses which satisfy the Natural Science requirements of the Liberal Studies program.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:17 PM on 7/26/97

The College of Natural Sciences and Mathematics

Cooperative Pre-Engineering (Chemical, Civil, Electrical, Materials, Mechanical) Program with Drexel University

Common to all pre-engineering programs are the following science and mathematics requirements: *[PY131/PY141](#), [PY132/PY142](#), [PY322](#), [PY342](#), *[MA123](#), *[MA124](#), [MA171](#), [MA241](#), *[CH111](#), *[CH112](#) (*or appropriate substitute).

Further requirements depend on the particular engineering program chosen. Complete information regarding a specific program may be obtained from the physics department.

For information on the Cooperative Pre-Engineering program with the University of Pittsburgh, see the catalog section for [Natural Science](#) and the program outline for "[Bachelor of Science in Natural Science/Pre-Engineering.](#)"

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:54 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Arts-Physics

Liberal Studies: As outlined in Liberal Studies section **56-57**

with the following specifications:

Mathematics: [MA123](#)

Natural Science: [PY131](#)/[PY141](#)-[PY132](#)/[PY142](#)

Liberal Studies electives: [MA124](#),

no courses with PY prefix

Major: **28**

Required courses:

PY131	Physics I-C Lecture	*sh
PY132	Physics II-C Lecture	*sh
PY141	Physics I-C Lab	*sh
PY142	Physics II-C Lab	*sh
PY222	Mechanics I	2sh
PY223	Mechanics II	2sh
PY231	Electronics	4sh
PY322	Electricity and Magnetism I	2sh
PY323	Electricity and Magnetism II	2sh
PY331	Modern Physics	3sh
PY350	Intermediate Experimental Physics I	3sh
PY351	Intermediate Experimental Physics II	3sh
PY473	Quantum Mechanics I	4sh

Controlled electives:

One additional PY majors course 3sh

Other Requirements: **22-28**

Additional mathematics and computer science:

CO110	Problem Solving and Structured Programming	3sh
MA241	Differential Equations	3sh

MA342 Advanced Mathematics for Applications	4sh
Additional natural science sequence	6sh
Additional social or natural science sequence (advanced)	6sh
Foreign Language Intermediate Level (1)	0-6sh

Free Electives: 11-18

Total Degree Requirements: 124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:21 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science-Physics

Liberal Studies: As outlined in Liberal Studies section 56-57

with the following specifications:

Mathematics: [MA123](#)

Natural Science: [PY131](#)/[PY141](#)-[PY132](#)/[PY142](#)

Liberal Studies electives: [MA124](#), no courses with PY prefix

Major: 37

Required courses:

PY131	Physics I-C Lecture	*sh
PY132	Physics II-C Lecture	*sh
PY141	Physics I-C Lab	*sh
PY142	Physics II-C Lab	*sh
PY222	Mechanics I	2sh
PY223	Mechanics II	2sh
PY231	Electronics	4sh
PY242	Optics	3sh
PY322	Electricity and Magnetism I	2sh
PY323	Electricity and Magnetism II	2sh
PY331	Modern Physics	3sh
PY342	Thermal and Statistical Physics	3sh
PY350	Intermediate Experimental Physics I	3sh
PY351	Intermediate Experimental Physics II	3sh
PY473	Quantum Mechanics I	4sh

Controlled electives:

One course from list:	PY472 or PY490	3sh
One additional PY majors course		3sh

Other Requirements: 13-19

CO110	Problem Solving and Structured Programming	3sh
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MA241	Differential Equations	3sh
MA342	Advanced Mathematics for Applications	4sh
One from list:	CO250 , MA171 , MA363 , MA421 , MA423	3sh
Foreign Language Intermediate Level (1)		0-6sh

Free Electives: **11-18**

Total Degree Requirements: **124**

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:21 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science-Applied Physics

Liberal Studies: As outlined in Liberal Studies section 56-57

with the following specifications:

Mathematics: [MA123](#)

Natural Science: [CH111-CH112](#)

(replaced by [CH113-CH114](#) for Chemistry track)

Liberal Studies electives: [MA124](#), no courses with PY prefix

Major: 28

Required courses:

PY131	Physics I-C Lecture	3sh
PY132	Physics II-C Lecture	3sh
PY141	Physics I-C Lab	1sh
PY142	Physics II-C Lab	1sh
PY150	Computer Application to Physics Laboratories	3sh
PY222	Mechanics I	2sh
PY231	Electronics	4sh
PY242	Optics	3sh
PY322	Electricity and Magnetism I	2sh
PY331	Modern Physics	3sh
PY352	Applied Physics Laboratory	3sh
PY355	Computer Interfacing	3sh

Other Requirements: 9-15

MA241	Differential Equations	3sh
CO110	Problem Solving and Structured Programming	3sh
CO250	Introduction to Numerical Methods	3sh
Foreign Language Intermediate Level (1)		0-6sh

Controlled electives: According to Track 23-27

Solid State Electronics Track:	CO300 , MA342 , PY323 , PY342 , PY353 , PY432 , PY475 , PY476	24sh
Computer Science Track:	PY342 , PY353 , PY432 , PY475 , PY476 , CO300 , CO310 , CO410 , CO450	27sh
Chemistry Track:	MA342 , CH231 , CH232 , CH323 , CH341 , CH342 , CH343	24sh
Biology Track:	BI111 , CH231 , BI120 , CH323 , CH351 , Two biology electives from the following: BI263 , BI250 , BI472 , BI350 , BI401	27sh
Geology Track:	GS121 , GS122 , GS131 , GS132 Five Geoscience electives from the following: GS321 , GS325 , GS326 , GS362 , GS412 , GS440 , GS481	23sh
Free Electives:		3-8
Total Degree Requirements:		124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:25 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Science in Education-Physics (*)

Liberal Studies: As outlined in Liberal Studies section 56-57

with the following specifications:

Mathematics: [MA123](#)

Natural Science: [CH111-CH112](#)

Social Sciences: [PC101](#)

Liberal Studies electives: [MA241](#); [BI103](#); [GS110](#),
[GS121](#), [GS141](#), or [GS221](#); no courses with PY prefix

College: 30

Professional Education sequence: (1)

CM301	Technology for Learning and Instruction	3sh
ED242	Pre-student Teaching Clinical Experience I	1sh
ED342	Pre-student Teaching Clinical Experience II	1sh
ED441	Student Teaching	12sh
ED442	School Law	1sh
ED451	Teaching of Science in the Secondary School	3sh
EP202	Educational Psychology	3sh
EP377	Educational Tests and Measurements	3sh
FE202	American Education in Theory and Practice	3sh

Major: 32

Required courses:

PY131	Physics I-C Lecture	3sh
PY132	Physics II-C Lecture	3sh
PY141	Physics I-C Lab	1sh
PY142	Physics II-C Lab	1sh
PY222	Mechanics I	2sh
PY223	Mechanics II	2sh
PY231	Electronics	4sh
PY242	Optics	3sh

PY322	Electricity and Magnetism I	2sh
PY331	Modern Physics	3sh
PY342	Thermal and Statistical Physics	3sh
PY350	Intermediate Experimental Physics I	3sh

Controlled electives:

Physics electives	2sh
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Other Requirements:

8

Additional Math courses:

MA124	Calculus II for Physics and Chemistry	4sh
MA342	Advanced Math for Applications	4sh

Free Electives:

0

(#)Total Degree Requirements:

126-127

(*) See requirements leading to teacher certification in the catalog section on Academic Policies, [Admission to Teacher Education](#)

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require [EX301](#) (2sh).

(#) See advisory paragraph [Timely Completion of Degree Requirements](#) in catalog section on Requirements for Graduation.

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The College of Natural Sciences and Mathematics

Minor in Physics

To minor in Physics, a student must successfully complete 15 semester hours in Physics which must consist of at least three courses at the 200 level or higher.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:51 PM on 7/26/97

The College of Natural Sciences and Mathematics

Department of Psychology

Carl W. Schneider, Chairperson; Barrett, Berman, Goodwin, Grover, Kaniasty, Laporte, Luo, Magee, Marquette, McHugh, Pavloski, Raeff, Rittle, Robertson, Sadler, Stires, Strand, Sussmann, Thornton, Walz, Zanich, Zimny; and professors emeriti Jacobs, Lore

The program in psychology leads to a Bachelor of Arts degree and is designed to give the student an understanding of the methods and major findings in the science of behavior and mental processes. The major offers the background required for graduate work in psychology and also preparation for such related fields as social work, personnel work, advertising, medicine, law, and theology. The department also offers a minor in psychology.

An honors program has been developed to enrich the education of qualified psychology majors and assist such students in gaining entrance to graduate school by providing classroom and research experiences which will prepare them for work at the graduate level.

A track in applied psychology offers students a firm background in the science of psychology, preparation for nonclinical applications of psychology to the solution of human and social problems in private and public organizations, and preparation for graduate study in the applied area of psychology. The core for the track is the same as for the psychology major; coursework in applied psychology is provided by enrolling in appropriate psychology electives and a carefully designed concentration of courses outside the department.

All psychology majors are required to take a minor or a concentration in another discipline.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 8:18 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Arts-Psychology

Liberal Studies: As outlined in Liberal Studies section 54-55

with the following specifications:

Mathematics: [MA217](#)

Natural Science: [BI103](#)-[BI104](#) recommended

Social Science: [PC101](#)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#),

no courses with PC prefix

Major: 33

Required courses:

[PC290](#) Research Design and Analysis I 4sh

[PC291](#) Research Design and Analysis II 4sh

Controlled electives:

A minimum of one course from each of these

six core areas: (1)

A. Developmental Psychology: [PC310](#), [PC311](#), [PC312](#), [PC315](#) 3-4sh

B. Individual Differences: [PC320](#), [PC321](#), [PC322](#) 3sh

C. Social/Environmental: [PC330](#), [PC331](#), [PC335](#) 3-4sh

D. Cognition/Learning: [PC340](#), [PC341](#), [PC342](#), [PC345](#) 3-4sh

E. Biological Bases of Behavior: [PC350](#), [PC352](#), [PC355](#), [PC356](#) 3-4sh

F. Metatheoretical Perspectives in Psychology: [PC410](#), [PC411](#) 3sh

Other PC electives beyond [PC101](#) 3-5sh

Other Requirements: 15-21

Foreign Language Intermediate Level (2) 0-6sh

Minor/concentration: 15sh

Free Electives: 15-22

- (1) At least 2 must be content-based laboratory courses.
 - (2) Intermediate-level Foreign Language may be included in Liberal Studies electives.
-

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:28 PM on 7/26/97

The College of Natural Sciences and Mathematics

Bachelor of Arts-Psychology/Applied Psychology Track

Liberal Studies: As outlined in Liberal Studies section 54-55

with the following specifications:

Mathematics: [MA217](#)

Natural Science: [BI103](#)-[BI104](#) recommended

Social Science: [PC101](#), [EC121](#)

Liberal Studies electives: [BE101](#)/[CO101](#)/[IM101](#),

no courses with PC prefix

Major: 38

Required courses:

PC290	Research Design and Analysis I	4sh
PC291	Research Design and Analysis II	4sh
PC421	Psychology of Work	3sh
PC425	Experimental Organizational Psychology	4sh
PC493	Practicum (1)	3sh

Controlled electives:

A minimum of one course from each of these six core areas: (2)

A. Developmental Psychology:	PC310 , PC311 , PC312 , PC315	3-4sh
B. Individual Differences:	PC320 , PC321 , PC322	3sh
C. Social/Environmental:	PC330 , PC331 , PC335	3-4sh
D. Cognition/Learning:	PC340 , PC341 , PC342 , PC345	3-4sh
E. Biological Bases of Behavior:	PC350 , PC352 , PC355 , PC356	3-4sh
F. Metatheoretical Perspectives in Psychology:	PC410 , PC411	3sh

Other Requirements: 15-21

Outside concentration:

EC122	Principles of Economics II	3sh
EC330	Labor Economics	3sh
LR480	Principles and Practices of Collective	

Bargaining	3sh
2 courses, as approved by advisor (3)	6sh
Foreign Language Intermediate Level (4)	0-6sh
Free Electives:	11-18
Total Degree Requirements:	124

- (1) Department recommends at least six credits of [PC493](#): Practicum.
- (2) At least two must be content-based laboratory courses.
- (3) Department highly recommends [PC424](#): Planned Organizational Change and recommends one course from business or another applied area.
- (4) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 10:29 PM on 7/26/97

The College of Natural Sciences and Mathematics

Minor-Psychology

Required courses:		20
PC101	General Psychology	3sh (1)
PC280	Psychological Inquiry	3sh
	or	
PC290	Research Design and Analysis I	4sh (2)
Four other PC electives beyond PC101		12sh (3)

- (1) Meets Liberal Studies requirement.
- (2) Prerequisite [MA217](#).
- (3) Selected in consultation with the director of the undergraduate program.

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The College of Natural Sciences and Mathematics

Minor-Psychological Science

Required courses:	17-18
PC101 General Psychology	3sh (1)
PC290 Research Design and Analysis I	4sh (2)
One course from core areas A, B, or C	3-4sh (3)
One course from core areas D or E	3-4sh (3)
One PC elective	3-4sh

- (1) Meets Liberal Studies requirement.
- (2) Prerequisite [MA217](#).
- (3) At least one course must be a content-based laboratory course.

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The School of Continuing Education

General Information

The mission of the School of Continuing Education is to serve the lifelong educational needs of nontraditional students, working adults, professional organizations, local and state agencies, and the citizens of the commonwealth by providing access to the academic and human resources of IUP.

The School of Continuing Education was created by the IUP Board of Trustees in May, 1966. Today, the school comprises the Division of Credit Programs, the Division of Conferences and Noncredit Programs, the Highway Safety Center, and the Criminal Justice Training Center. The school is characterized by its commitment to academic excellence and high-quality programs. The school maintains a dynamic environment which fosters innovation and experimentation in order to improve programs continually and respond to the ever-changing needs of society.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:49 PM on 7/26/97

The School of Continuing Education

Division of Credit Programs

Edward W. Nardi, Assistant Dean

The Division of Credit Programs offers a variety of opportunities for the adult and nontraditional learner to access the academic resources of IUP on a part-time basis. Courses may be selected from day or evening offerings.

The Associate of Arts Degree in General Studies is designed for the nontraditional or adult learner who seeks to acquire a broad base of knowledge in the liberal arts. This program consists of the core of Liberal Studies requirements of the IUP bachelor's degree programs plus nine to twelve credits of electives. The student is encouraged to develop a plan of study with his or her academic advisor which will bring focus to the individual's interest in a particular area or subject. No more than thirty credits may be transferred into this degree program from other colleges.

The Bachelor of Science degree in General Studies is designed for the mature adult student, who under faculty advisement can explore and develop an individualized plan of study which does not approach any existing IUP major. This self-designed plan of study must be based on a specific theme which incorporates basic and applied coursework within a theoretical framework culminating in a senior-year independent research project. At the time of application for degree candidacy through the School of Continuing Education or transfer from another major, the student must submit a plan of study which contains the proposed theme, rationale, and courses needed to satisfy the Special Interest Area. A faculty member will be assigned to assist with the plan of study prior to acceptance to degree candidacy. Students other than School of Continuing Education students must have completed 45sh before a request for transfer will be honored.

The student's plan of study, which is designed to fulfill the Special Interest Area, must be approved by the student's advisor and the dean of the School of Continuing Education.

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The School of Continuing Education

Associate of Arts-General Studies

Liberal Studies:	as outlined in the Liberal Studies	50-53
Section with the following specifications and modifications:		
Learning Skills		10-11sh
Humanities		9sh
Fine Arts		3sh
Natural Science		7-8sh
Social Science		9sh
Health and Wellness/ROTC		3-4sh
Controlled Liberal Studies Electives		9sh
Free Electives:		9-12
Total Degree Requirements:		62

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The School of Continuing Education

Bachelor of Science-General Studies

Liberal Studies: As outlined in Liberal Studies section 53-54

General Area of Study 24

Choose at least 6sh from three of the four areas listed below. At least 12sh must be 300-level or above. Courses should relate to theme developed in Special Interest Area.

Human Behavior and Development Area Anthropology, Health, Home Economics, Psychology, Sociology
Social and Political Systems Area Economics, Geography and Regional Planning, History, Industrial and Labor Relations, Political Science

Arts, Letters, and Culture Area Art, Communications Media, English, French, German, Journalism, Music, Philosophy, Religious Studies, Spanish, Theater

Science, Mathematics, and Technology Area Biology, Chemistry, Computer Science, Geoscience, Mathematics, Physics

Special Interest Area 21

With approval of advisor, student may select, from any department listed above, courses which focus on a particular need or interest. At least 12sh must be 300-level or above. The program must include either one research course which provides opportunities for extensive writing or an independent study project. Some courses will not be available to General Studies majors.

Electives 25-26

At least 6sh must be 300-level or above

Total Degree Requirements: 124

(1) Individually planned theme may not duplicate any existing degree programs which are otherwise available at IUP, nor may they be used to circumvent specific requirements within an existing major.

(2) No more than 30 semester hours taken in any one department will count toward graduation.

(3) In the application of university policies, the Special Interest Area is considered as the major. Specifically, in order to graduate, students must be in academic good standing and attain a 2.00 grade point average in the Special Interest Area.

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The School of Continuing Education

Part-time Studies Program (Nondegree)

The Part-time Studies Program is designed to offer the adult and nontraditional learner the opportunity to begin or renew a college education at IUP. Through this program an individual may enroll in undergraduate credit courses to pursue personal interests, acquire new skills, or work toward formal admission to degree candidacy. Credit earned in this program may be applied to a degree upon formal admission to an IUP degree program.

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The School of Continuing Education

Postbaccalaureate Program

The Postbaccalaureate Program is designed to provide access to undergraduate courses to individuals who have an earned baccalaureate degree. Students may be seeking a second bachelor's degree, additional teacher certification, or personal enrichment. Postbaccalaureate students may attend IUP on a part-time or full-time basis.

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The School of Continuing Education

Off-Campus Studies Program

The Off-Campus Studies Program is designed to support the efforts of IUP and its faculty to offer academic programs to specific groups of individuals through the delivery of university courses at off-campus locations. The Master of Education in Elementary Education, the Master of Arts in Adult and Community Education, the Executive MBA Program, and the Master of Arts in Criminology are offered in the IUP Center in Monroeville. In addition, the Executive MBA is offered in Johnstown and the Master of Science in Safety Sciences is available in Harrisburg. Undergraduate and graduate courses are also available periodically at various off-campus locations throughout the commonwealth.

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The School of Continuing Education

Adult Advisement Services

Adult Advisement Services provides the part-time, nontraditional, and adult learner access to academic exploration and planning through individual conferences and workshops. Seminars are offered throughout the year to provide the opportunity for adult learners to become acquainted with the many resources of the university.

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The School of Continuing Education

Division of Conferences and Noncredit Programs

Donna M. Griffith, Director

The division offers a wide variety of noncredit programs which meet community needs in the areas of public service, professional development, and personal enrichment.

Business, Industry, and Labor

Courses and workshops are offered in the following areas: Computer Literacy, Management Development, Small Business Development, and Customized Training. Courses may be offered at IUP or at the business/industry site, as preferred.

Community-University Studies

Noncredit courses and workshops are offered in Indiana, Kittanning, and Punxsutawney. Personal growth and enrichment topics include creative leisure, self-improvement, fitness, culinary arts, languages, money and finances, art/music/literature, Elderhostel, and Mornings with the Professors. There are no exams, no grades, and no pressure. The program is provided as a service to the community.

Special Programs

The education and training needs of health and human service professionals are met through course offerings, one-day workshops, seminars, and conferences. Additionally, Youth Experience in Summer (YES) and College Connections for Kids provide educational enrichment for youth in elementary through high school grades.

Conferences

The division facilitates conferences offered by academic departments during the year and hosts off-campus groups and organizations during the summer months. The conference staff also provides consulting services and coordinates conferences throughout the state for IUP and other organizations.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 11:57 PM on 7/26/97

The School of Continuing Education

Highway Safety Center

Richard J. Hornfeck, Director

IUP's Highway Safety Center attempts to address the highway safety needs of the commonwealth through a variety of programs and activities. The Highway Safety Center programs encompass activity in five major areas:

1. research, surveys, and studies,
2. education (teaching),
3. training and conferences,
4. field and extension services, and
5. traffic safety communications and information exchange.

Teacher Certification in Driver Education

Through cooperative effort with IUP's Department of Health and Physical Education, the Highway Safety Center coordinates and directs IUP's Teacher Certification Program in Driver Education.

IUP Regional Highway Safety Project

The IUP Regional Highway Safety Project is a federally funded program contracted with the Pennsylvania Department of Transportation's Center for Highway Safety. Originating at IUP in January, 1987, under the title of the Indiana County Seat Belt Program, its purpose was to increase public awareness and the usage of occupant restraints. The program expanded its emphasis and territory in 1989 and now includes the counties of Armstrong, Jefferson, and Clearfield. Programs for corporations, schools, civic groups, law enforcement agencies, etc., include topics such as occupant safety, bicycle safety, pedestrian safety, safe driving characteristics, and DUI. The project also serves as a resource to other community safety groups by providing printed materials, audiovisual aids, crash-car dummy costumes, and the "Seat Belt Convincer." A Car Seat Loaner Program also provides car seats to residents in Indiana County.

Driver Training Programs

From basic driver education programs for beginning drivers to truck driver training to advanced driver training programs in emergency driving techniques, the Highway Safety Center provides a cadre of courses, all designed to meet the needs of the student.

Emergency Services Training

This is a large, diversified program area designed to meet the training needs of ambulance, fire, and police personnel in the areas of emergency medical services and rescue.

Traffic Accident Investigation

Traffic Accident Investigation programs are available for safety directors, insurance adjusters, and police personnel. Courses range from basic investigation up to and including accident reconstruction.

at 11:59 PM on 7/26/97

The School of Continuing Education

Criminal Justice Training Center

Gary M. Welsh, Director

The Criminal Justice Training Center's role in both the university and the community is to provide high-quality education and training programs for the continuing professionalism of the criminal justice system.

These programs include seminars for in-service personnel in fulfillment of mandatory continuing education requirements. They are conducted on an "as needed" basis covering an unlimited range of topics, such as vehicle and criminal law updates, search and seizure, accident investigation, alcohol enforcement, and driver proficiency. Special programs are provided to offer the basic 600-hour academy training required for law enforcement service under Mandatory Act 120. Training under the Lethal Weapons Act 235 provides the basic requirements and mandatory recertification for armed security personnel.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate. Last Modified at 12:00 AM on 7/27/97

Accounting

Department of Accounting
Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[AG201](#) [AG202](#) [AG281](#) [AG299](#) [AG300](#) [AG301](#) [AG302](#) [AG311](#) [AG399](#) [AG401](#) [AG412](#) [AG421](#) [AG422](#) [AG431](#)
[AG435](#) [AG441](#) [AG451](#) [AG461](#) [AG471](#) [AG481](#) [AG482](#) [AG488](#) [AG493](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

AG 201 Accounting Principles I

3c-0l-3sh

Introduces the student to the accounting cycle in service and merchandising concerns using the single proprietorship form of business organization; covers use of special journals and subsidiary ledgers in the accounting system as well as accounting and internal control procedures for cash, receivables, inventory, and plant and equipment.

AG 202 Accounting Principles II

3c-0l-3sh

Prerequisites: C or better in AG201, sophomore status

Covers accounting principles and procedures for payroll, partnerships, corporations, long-term liabilities and investments, and manufacturing firms with a general accounting system. Introduces the student to cost accounting systems, financial statements analysis, budgeting, and use of accounting information in making managerial decisions.

AG 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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AG 299 Cooperative Education I

0c-0l-2sh

Prerequisites: Completion of 55 credits with a minimum GPA of 2.0 including at least a "C" in AG201, AG202, and IM241, and approval of the cooperative advisor

The initial experience in a program designed to combine classroom theory with practical application through job-related experiences. Students are actively employed in the accounting area in business, industry, government, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives in accounting. The student is expected to complete subsequently AG399 or an internship.

AG 300 Managerial Accounting

3c-0l-3sh

Prerequisite: AG202 (not open to Accounting majors)

Emphasizes the use of accounting information in performing the managerial functions of planning, control, decision making, and performance evaluation.

Note: Accounting majors will not be granted degree credit for AG300.

AG 301 Intermediate Accounting I

3c-0l-3sh

Prerequisite: C or better in AG202

An overview of the foundation of accounting theory dealing with application of generally accepted accounting principles as promulgated in professional pronouncements to the reporting process and to accounting for various asset items in the financial statements.

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AG 302 Intermediate Accounting II

3c-0l-3sh

Prerequisite: C or better in AG301

Application of generally accepted accounting principles to various areas such as accounting for corporations, long-term investments in securities, bonds, pension costs, leases, etc.

AG 311 Cost Accounting

3c-0l-3sh

Prerequisite: C or better in AG202

Cost accounting methods and procedures including cost accumulation under job order cost system and process cost system, cost allocation, budgeting, and accounting for spoilage, joint, and by-products. The planning and control aspect of cost accounting is emphasized.

AG 399 Cooperative Education II

0c-0l-3sh

Prerequisites: AG299; completion of 85 credits with an overall GPA of 2.0; a GPA of 2.3 in AG301, AG302, and AG311 with at least a "C" in each course; and approval of the cooperative advisor

The subsequent course in cooperative education is designed to combine classroom theory with practical application through job-related experiences. Cooperative Education students are actively employed in the accounting area in business, industry, government, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives in accounting.

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AG 401 Advanced Accounting

3c-0l-3sh

Prerequisite: AG302

Study of accounting issues of specialized nature including partnerships, organization and liquidation, agency and branch accounting, accounting for business combinations, preparation of consolidated financial statements, accounting for government and not-for-profit entities, accounting for estates and trusts, and receivership accounting.

AG 412 Advanced Cost Accounting

3c-0l-3sh

Prerequisite: C or better in AG311

Study of budgets, standard costs, direct and absorption costing, analysis of cost variances, and extensive analysis of various cost control and profit planning programs.

AG 421 Federal Taxes

3c-0l-3sh

Prerequisite: C or better in AG202

Acquaints the student with Federal Income Tax Laws as they apply to individual taxpayers and partnerships.

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AG 422 Federal Taxation of Corporations, Partnerships, Estates, and Trusts

3c-0l-3sh

Prerequisites: AG421 and 302

Advanced course in federal income taxation as it applies to taxpayers other than individuals. Covers the tax treatment of those property transfers subject to federal and state gift and death taxes. The tax planning aspect of the various course topics as well as tax research methodology are also discussed.

AG 431 Auditing

3c-0l-3sh

Prerequisite: AG302 Study of auditing theory and practical application of auditing standards and procedures to the review, testing, and evaluation of accounting controls and to the verification of transactions and balances to express an opinion in an audit report on the fairness of financial statements' presentation.

AG 435 Internal Auditing

3c-0l-3sh

Prerequisite: AG431

This course covers four issues: foundations for internal auditing, administering internal auditing activities, operational areas, and special relationships and evaluation for internal auditing.

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AG 441 Accounting for Government and Nonprofit Organizations

3c-0l-3sh

Prerequisite: AG302

Presents the views of authoritative professional organizations as to desirable standards of accounting and reporting for governmental and nonprofit entities. Topics include budgeting and budgetary accounts, accounting for various funds, the general fixed assets group of accounts, the financial reporting process, and application of the principles of fund accounting in specific areas.

AG 451 Seminar in Accounting Standards

3c-0l-3sh

Prerequisite: AG302

Study of professional standards having authoritative support in the field of accounting. APB opinions, FASB interpretations, and SEC Accounting Series Releases are discussed.

AG 461 Accounting Systems

3c-0l-3sh

Prerequisites: AG302, AG311, IM300

Study of concepts, principles, and procedures of accounting system design, installation, implementation, auditing, and maintenance in relating to system objectives, information requirements, constraints, system elements, and

considerations on a computerized basis.

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AG 471 International Accounting

3c-0l-3sh

Prerequisites: AG311 for Accounting majors or AG300 for non-Accounting majors

A comparative study of the effects of differences in cultural and business philosophies on national and international accounting policies. Specific financial accounting controversies, such as accounting for transactions involving foreign currency exchanges, will be discussed. International management accounting topics will include international transfer pricing policies, performance evaluations of multinational managers and divisions, and management information systems. International aspects of financial planning, auditing, and taxation practices will also be reviewed.

AG 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

AG 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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AG 488 Internship in Accounting (Industrial and Government)

6sh

Prerequisites: Consent of departmental chairperson and dean, Eberly College of Business; overall GPA of 2.75 and GPA in accounting courses of 3.0

Practical experiences, generally totaling 400 hours, in an industrial or government accounting setting.

AG 493 Internship in Accounting (Public)

6sh

Prerequisite: Consent of departmental chairperson and dean, Eberly College of Business; overall GPA of 3.00 and GPA in accounting courses of 3.0

Practical experiences, generally totaling 400 hours, with a public accounting firm.

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Administrative Services

Department of Office Systems and Business Education Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[AD101](#) [AD221](#) [AD321](#) [AD481](#) [AD482](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

AD 101 Introduction to Business

3c-0l-3sh

Overview of the principles, practices, and methods common to most business firms in a private enterprise system. (Not open to juniors and seniors in Business)

AD 221 Business Technical Writing

3c-0l-3sh

Prerequisite: EN101

Application of business and technical writing styles, letters, memos, reports, procedures, and manuals are some areas of concern. Emphasis on clear, concise writing style. (May not be used as a substitute for AD321)

AD 321 Business and Interpersonal Communications

3c-0l-3sh

Prerequisite: EN101, 202

Study of communication theory and principles as applied to business situations and practices; development of communication skills in areas of communication such as speaking, writing, listening, and nonverbal communicating. Emphasis on building effective interpersonal relations in a business environment.

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AD 481 Special Topics

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

AD 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Anthropology

Department of Anthropology
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[AN110](#) [AN211](#) [AN213](#) [AN222](#) [AN233](#) [AN244](#) [AN271](#) [AN272](#) [AN273](#) [AN274](#) [AN281](#) [AN286](#) [AN314](#) [AN315](#)
[AN316](#) [AN317](#) [AN318](#) [AN320](#) [AN340](#) [AN350](#) [AN360](#) [AN365](#) [AN401](#) [AN415](#) [AN420](#) [AN444](#) [AN456](#) [AN480](#)
[AN481](#) [AN482](#) [AN483](#) [AN493](#)

AN 110 Contemporary Anthropology

3c-0l-3sh

An introduction to the nature of anthropological inquiry. By using the anthropological perspective, current relevant topics will be discussed. Topics could include but are not limited to changing myths and rituals, legal anthropology, cross-cultural aspects of aging, gender roles, evolutionism and creationism, cultural extinction, and world hunger.

AN 211 Cultural Anthropology

3c-0l-3sh

Explores the nature of culture as a human survival technique. Provides a framework for appreciation and understanding of cultural differences and similarities in human societies, past and present.

AN 213 World Archaeology

3c-0l-3sh

Survey of the prehistory of Western and non-Western cultures with emphasis on the development of technology and on the evolution of adaptive strategies with particular attention to the origins of agriculture. This course exposes the students to the diversity of past cultural systems and to the methodological and theoretical questions of concern to archaeologists.

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AN 222 Biological Anthropology

3c-0l-3sh

Introduction to the goals and techniques of biological anthropology with emphasis on primatology, paleoanthropology, genetics, and osteology. Provides a basis for evaluating the role of biology in human behavior.

AN 233 Language and Culture

3c-0l-3sh

Focuses on social and cultural functions of language. Particular emphasis given to problems in anthropology with respect to non-Western languages.

AN 244 Basic Archaeology

3c-0l-3sh

Introduction to the goals and methods of anthropological archaeology with particular attention to the analysis of cultural chronology, past lifeways, and cultural process. Provides laboratory experience with artifacts and other archaeological data.

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AN 271 Cultural Area Studies: Africa

3c-01-3sh

Explores the cultural diversity of the continent of Africa. The first unit examines the historical processes which shape modern society, including the formation of indigenous African empires, the evidence for trade routes, slave trading, and colonialism. The second unit examines the nature of African traditional societies, including analyses of forager and agricultural groups. The last unit covers issues of contemporary development in Africa such as famine and agricultural policy, the status of women in economic development, and apartheid. Reading includes ethnographic and historical accounts of African society as well as selections by African writers on the issues of contemporary society. (Also offered as SO271; may not be taken for duplicate credit.)

AN 272 Cultural Area Studies: China

3c-01-3sh

Designed to assist the student in developing an understanding of contemporary China. While the course will begin with prehistoric and historic aspects of China, the focus will be on contemporary issues presented in the context of anthropological theory. Specific Chinese cultural components that will be investigated include values, attitudes, norms, social organization, linguistics, and folklore. (Also offered as SO272; may not be taken for duplicate credit.)

AN 273 Cultural Area Studies: Southeast Asia

3c-01-3sh

An introduction to the peoples and cultures of Southeast (SE) Asia. Prehistory and the development of indigenous states in SE Asia and analysis of impact of world religions, such as Islam, and Western colonialism. Also examines modern hunter-gatherer and farming societies and discusses contemporary issues in social and economic change, including the Green Revolution, tropical deforestation, the struggle of ethnic minority tribal peoples, and the plight of Indochinese refugees. (Also offered as SO273; may not be taken for duplicate credit.)

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AN 274 Cultural Area Studies: Latin America

3c-01-3sh

An introduction to the peoples and cultures of Latin America. Focuses on the prehistory and development of pre-Columbian complex societies in Mesoamerica and the Andes and analyzes the impact of European colonialism on these major regions. Also examines contemporary issues, such as civil wars, economic development, rural-urban migrations, and migration and immigration of Latin American peoples into the United States. (Also offered as SO274; may not be taken for duplicate credit.)

AN 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

AN 286 Marriage, Kinship, and the Family

3c-01-3sh

Sociological and anthropological study of patterns of marriage, kinship, and family life, with emphasis on the

relationship between family patterns and other social institutions. Topics covered include the family and marriage in historical and comparative perspective; worldwide patterns of gender stratification; incest and incest avoidance; class and race contexts of family patterns; mate selection and love; parenthood and child rearing; domestic and sexual violence; alternative family lifestyles; and the current crisis and possible future of the family. Intended for a broad audience but also open to sociology and anthropology majors and minors. (Also offered as SO286; may not be taken for duplicate credit.)

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AN 314 Native Americans

3c-0l-3sh

Survey of culture history and culture area characteristics of the Indians of North America. Detailed study of representative groups related to historical, functional, and ecological concepts.

AN 315 North American Archaeology

3c-0l-3sh

Prerequisite: AN110 or 244 or permission of the instructor

Survey of North American prehistory with emphasis on cultural ecology and technology. Attention is given to all geographic areas north of Mexico, but the focus is on the Eastern Woodlands.

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AN 316 Anthropology of Religion

3c-0l-3sh

Prerequisite: AN110 or 211

Explores nature, function, and universal characteristics of religion in human society by utilizing cross-cultural approach. Theories concerning religious phenomena serve as topics for discussion.

AN 317 Archaeology Research Design and Analysis

3c-0l-3sh

Prerequisite: AN244 or permission of the instructor Introduction to theory and method in archaeological research through lecture, laboratory exercises, and individual projects. Provides students with actual experience analyzing and interpreting archaeological data sets.

AN 318 Museum Methods

3c-0l-3sh

Prerequisite: AN110 or 211 or 244

Lecture and laboratory course surveying the role of museums as social and educational institutions, types of museums, museum administration, and museum architecture. Procedures for collection, curation, preservation, and storage of anthropological and natural history specimens examined.

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AN 320 Archaeological Field School

var-6sh

Prerequisite: AN110, 244, or permission of instructor

Introduction to archaeological survey, field excavation, and laboratory processing. Field school students participate in one or more of the on-going research projects of the IUP Archaeology Program.

AN 340 Anthropology of Aging

3c-0l-3sh

Introduces the student to various experiences faced by elderly people in numerous world's societies. Explores the impact of such factors as ethnicity, nationality, race, and class and the processes of cultural change on the lives of people growing old. Comparative, cross-cultural perspectives will be stressed.

AN 350 Anthropology of Women

3c-0l-3sh

Designed for any student with an interest in the lives of women around the world, regardless of whether or not he or she has a strong background in anthropology. Examines the social roles, rights, and responsibilities of women cross-culturally, viewing both women's productive (economic) functions as well as reproductive functions. Reading describes the position of women in technologically simple societies and addresses the comparative position of women in the industrialized socialist and capitalist countries. The central theme of the course is an examination of how the position of women has changed in the twentieth century.

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AN 360 Applied Anthropology

3c-0l-3sh

Applied anthropology focuses on the anthropologist as an agent of social change and bridges the gap between theories of cultural behavior and the policies which affect contemporary cultures. Examines the historical role of anthropologists in early public administration and then examines at length the work of contemporary applied anthropologists in programs of international economic development (health, agriculture, and education), in domestic human service planning and delivery, in cultural resource preservation, and in their role as advocates for unempowered minorities.

AN 365 Native North American Religions

3c-0l-3sh

An introduction to the indigenous religions of North America and to the peoples who practice these rich and varied approaches to the sacred. This course not only examines major religious themes and dimensions (myth, ritual, ethics, etc.) but includes a historical perspective on North American Indian lifeways. This perspective involves discussion of the clash with Euro-American values and contemporary native religious responses to social crisis and change. (Also offered as RS365; may not be taken for duplicate credit)

AN 401 Social and Cultural Change

3c-0l-3sh

Prerequisite: AN110 or SO151 Exploration of current theoretical perspectives on social and cultural change. Special attention given to planned change at the local or regional level.

AN 415 Cultural Resource Management

3c-0l-3sh

Prerequisite: AN244 or consent of the instructor

Provides an understanding of how cultural resources are being preserved and managed under current American laws and regulations with particular emphasis on historic properties, such as historic buildings and archaeological sites. Case studies and field trips are incorporated so that students gain a thorough understanding of key problems and issues in historic preservation and cultural resource management.

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AN 420 Cultural Ecology

3c-0l-3sh

Prerequisite: AN110 or 211

Introduces the student to the field of ecological anthropology by exploring the concept of the ecosystem in relationship

to varying human adaptive strategies. Illustrates the importance of understanding man-environment interactions both in studying the developing world and in investigating the past.

AN 444 Medical Anthropology

3c-0l-3sh

Prerequisite: 9 credits in anthropology or permission

Focuses on the study of human confrontation with disease and illness and on the adaptive arrangements made by various human groups for dealing with these dangers. Health and disease are viewed from a broad array of micro and macro perspectives, e.g., evolutionary, ecological, and psychosocial. Designed for nursing and social work students as well as social and biological sciences students.

AN 456 Field Research Methods

3c-0l-3sh

Prerequisite: 9 credits in anthropology

Examination of methods and practice of sociology and anthropology in the areas of qualitative and quantitative methods. Concentrates upon the development of field notes, interviewing techniques, participant observation, etc. Qualitative methods of sampling and analysis will include theoretical sampling and analytic induction. Brief background research into community, organizational, and group structure will also be emphasized.

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AN 480 Anthropology Seminar

var-1-3sh

Prerequisite: 9 credits in anthropology or permission

A seminar approach to the integration of the fields of anthropology. Designed to assist the advanced student in understanding the nature of anthropology, the major theoretical issues, and the history of intellectual development.

AN 481 Special Topics in Anthropology

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

AN 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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AN 483 Readings in Anthropology

var-1-3sh

Directed readings on special topics in anthropology. Instructor guides selection of readings.

AN 493 Internship in Anthropology

var-3-12sh

Prerequisite: Permission of the instructor

The course is designed to offer students practical experience in any of the specialized fields of anthropology (physical,

social-cultural, archaeology, or linguistics). Each student develops objectives in consultation with a particular departmental faculty member who is supervising the internship. Detailed field notes and a major paper based on the experience are required.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Applied Music

Department of Music College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

Music majors and others who may qualify take private instruction in their respective major areas of performance in instrument or voice for up to eight semesters. Half-hour lessons are given each week (2 sh) for students enrolled in the B.S. and B.A. degree programs. A one-hour lesson (4 sh) is scheduled by students enrolled in the B.F.A. degree program only.

AM 101, 151, 201, 251, 301, 351, 401, 451	Piano I-VIII
AM 102, 152, 202, 252, 302, 352, 402, 452	Organ I-VIII
AM 103, 153, 203, 253, 303, 353, 403, 453	Harpsichord I-VIII
AM 104, 154, 204, 254, 304, 354, 404, 454	Harp I-VIII
AM 105, 155, 205, 255, 305, 355, 405, 455	Voice I-VIII
AM 106, 156, 206, 256, 306, 356, 406, 456	Violin I-VIII
AM 107, 157, 207, 257, 307, 357, 407, 457	Viola I-VIII
AM 108, 158, 208, 258, 308, 358, 408, 458	Cello I-VIII
AM 109, 159, 209, 259, 309, 359, 409, 459	String Bass I-VIII
AM 110, 160, 210, 260, 310, 360, 410, 460	Flute I-VIII
AM 111, 161, 211, 261, 311, 361, 411, 461	Clarinet I-VIII
AM 112, 162, 212, 262, 312, 362, 412, 462	Oboe I-VIII
AM 113, 163, 213, 263, 313, 363, 413, 463	Bassoon I-VIII
AM 114, 164, 214, 264, 314, 364, 414, 464	Saxophone I-VIII
AM 115, 165, 215, 265, 315, 365, 415, 465	Trumpet I-VIII
AM 116, 166, 216, 266, 316, 366, 416, 466	French Horn I-VIII
AM 117, 167, 217, 267, 317, 367, 417, 467	Trombone I-VIII
AM 118, 168, 218, 268, 318, 368, 418, 468	Baritone Horn I-VIII
AM 119, 169, 219, 269, 319, 369, 419, 469	Tuba I-VIII
AM 120, 170, 220, 270, 320, 370, 420, 470	Percussion I-VIII
AM 121, 171, 221, 271, 321, 371, 421, 471	Guitar I-VIII

AM 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in

conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Art Education

Department of Art
College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[AE281](#) [AE315](#) [AE317](#) [AE318](#) [AE481](#) [AE482](#)

AE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

AE 315 Survey of Art Education

3c-0l-3sh

A seminar to introduce the art education major to the principles and practices of teaching visual arts K through 12. Field experiences, pre-student teaching activities, introduction to literature, and history and philosophies of art education emphasized. (Prerequisite to student teaching) Fall only.

AE 317 Art Education Methodology at the Elementary Level

1c-3l-3sh

Examines children's artistic development, art programs, planning, motivation, and evaluation. Weekly teaching experience is an integral part of the course. (Prerequisite to student teaching) Fall only.

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AE 318 Art Education Methodology at the Secondary Level

1c-3l-3sh

Relationship of art education to the total secondary curriculum is studied to determine goals of junior-senior high school art. The adolescent creative products are analyzed to help the prospective art teacher to identify with problems of students. (Prerequisite to student teaching) Spring only.

AE 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

AE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Art History

Department of Art
College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[AH101](#) [AH205](#) [AH206](#) [AH211](#) [AH222](#) [AH281](#) [AH300](#) [AH407](#) [AH408](#) [AH409](#) [AH412](#) [AH413](#) [AH416](#) [AH481](#)
[AH482](#)

AH 101 Introduction to Art

3c-0l-3sh

Designed to introduce the student to the significance of art as related to contemporary living and our historical heritage.

AH 205 Ancient to Medieval Art

3c-0l-3sh

Study of art from prehistoric times to the Middle Ages. Man's artistic development is seen in relation to political, social, economic, and religious events. Course was offered as AH115 prior to Summer, 1990.

AH 206 Renaissance to Baroque Art

3c-0l-3sh

Study of art from the Renaissance to the Baroque in light of the historical events which affect man's artistic impulses and development. Course was offered as AH116 prior to Summer, 1990.

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AH 211 Modern Art

3c-0l-3sh

A survey of the revolutionary movements which began about 1850; concludes with trends in contemporary arts.

AH 222 Art in America

3c-0l-3sh

Surveys American art and its relation to the development of American ideas and ideals.

AH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

AH300 Native American Art

3c-0l-3sh

Prerequisites: AH101, junior standing, or permission

A survey of the broad forms of visual arts and crafts that reflects the lifeways of Native Americans from paleo-indian origins to A.D. 1900. (pending Council of Trustees approval)

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AH 407 Medieval Art

3c-0l-3sh

Art and architecture of Europe during the Middle Ages, beginning with early Christian and Byzantine and concluding with the Gothic period. Dual listed for graduate credit as AH507.

AH 408 Italian Renaissance Art

3c-0l-3sh

Italian art from 1400s through 1650 and Mannerist movement. Special attention paid to great masters of the period. Dual listed for graduate credit as AH508.

AH 409 Baroque and Rococo Art

3c-0l-3sh

A general survey of art from 1575-1775, will include architecture, sculpture, painting, and other arts. Dual listed for graduate credit as AH509.

AH 412 Classical Art

3c-0l-3sh

Historical survey of the architecture, painting, sculpture, and minor arts of the classical period of Greece and Rome, including the Minoan, Mycenaean, and Etruscan cultures.

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AH 413 Senior Seminar

3c-0l-3sh

Intended to help students develop adequate vocabularies and methods to be used in discussion and criticism of works of art.

AH 416 Northern Renaissance Art

3c-0l-3sh

Explores phenomena of art north of the Alps from 1400 to 1600, especially as it appears in the Lowlands, as well as side explorations into art of France, Germany, Austria, and the court at Prague.

AH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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AH 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Art (Studio)

Department of Art
College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[AR100](#) [AR111](#) [AR112](#) [AR113](#) [AR114](#) [AR120](#) [AR211](#) [AR213](#) [AR214](#) [AR215](#) [AR216](#) [AR217](#) [AR218](#) [AR219](#) [AR281](#)
[AR421](#) [AR451](#) [AR452](#) [AR453](#) [AR454](#) [AR455](#) [AR457](#) [AR459](#) [AR460](#) [AR481](#) [AR482](#) [AR493](#)

AR 100 Arts of the Twentieth Century

1c-3l-3sh

Designed to expand student response to visual, aural, and kinetic art forms of this century with special emphasis on recent decades. The course includes lecture, studio, and field experiences.

AR 111 Figure Drawing

0c-6l-3sh

A foundation course in drawing, including a study of the structure of drawing and composition with a variety of media and subject matter.

AR 112 Fundamentals of Drawing

0c-6l-3sh

A course which seeks to integrate basic principles and fundamentals of drawing and design.

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AR 113 Three-Dimension Design

0c-6l-3sh

Basic elements and principles of design are studied. A course in design in three dimensions.

AR 114 Color and Two-Dimensional Design

0c-6l-3sh

Focuses on the consistent properties of color and the manner in which two-dimensional design can be organized. Specific attention is given to the complex interactions of color within two-dimensional design.

AR 120 Principles of Design

0c-4l-2sh

Principles of design and color are studied and applied to a crafted object. Major emphasis on aesthetic quality inherent in designing with materials.

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AR 211 Painting

0c-6l-3sh

An introductory course in painting in which a variety of materials, techniques, and approaches are explored.

AR 213 Woodworking: Function and Form

0c-6l-3sh

Involves the study of woodworking and furniture design as it relates to the individual designer-artist. Students will experience a formal background in both woodworking technique and the application of design.

AR 214 Ceramics

0c-6l-3sh

A general introduction to the techniques and aesthetics of clay. The student will work both at the wheel and with hand building methods.

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AR 215 Sculpture

0c-6l-3sh

Introductory course in sculpture with emphasis on study of form as well as visualizing in the third dimension.

AR 216 Basic Metals

0c-6l-3sh

Introduction to metal work with emphasis upon creation of functional and nonfunctional art objects. Approached from the viewpoint of beginner learning basic processes of metal fabrication.

AR 217 Printmaking

0c-6l-3sh

Introduction to basic techniques of production of fine prints including work in relief, intaglio, lithograph, and serigraph processes.

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AR 218 Graphic Design

0c-6l-3sh

Students explore various techniques and their application to such commercial art projects as package design, trademark, and other design problems. Lettering is stressed, both instant type and hand lettering.

AR 219 Fibers

0c-6l-3sh

Provides students with introductory working knowledge in design and execution of projects in non 4/harness loom weaving and related fabric areas. Other fiber techniques, including handmade paper, available for students to explore as desired.

AR 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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AR 421 Advanced Drawing

0c-6l-3sh

Prerequisites: AR111 and 112

Designed to meet the needs of the student who has some background in the field. Problems of composition, two- and three-dimensional relationships, and surface are on an individual basis. (Offered as AR321 prior to 1994-95.)

AR 451 Advanced Woodworking: Function and Form

0c-6l-3sh

Prerequisite: AR213

Offers advanced training and skills involving the study of contemporary furniture design and woodworking. Emphasis on a technical and aesthetic point of view.

AR 452 Advanced Ceramics

0c-6l-3sh

Prerequisite: AR214

Continued exploration of the field of ceramic production, along with kiln firing and glaze formulation.

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AR 453 Advanced Sculpture

0c-6l-3sh

Prerequisite: AR215

Gives the student an opportunity to pursue independent study in sculpture. Materials and processes will be individually chosen and the work related to broadening concepts.

AR 454 Advanced Painting

0c-6l-3sh

Prerequisite: AR211

Individual experimentation and exploration by the painter and investigation of the various technical approaches.

AR 455 Advanced Graphic Design

0c-6l-3sh

Prerequisite: AR218

Stresses advanced techniques in layout and illustration. The student explores ideas, such as creation of trademarks and how products are designed. Layouts are analyzed as to their quality. Package design is studied.

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AR 457 Advanced Printmaking

0c-6l-3sh

Prerequisite: AR217

Student elects to study one of the printmaking processes in greater depth and works toward development of own techniques, working processes, and ideas.

AR 459 Advanced Fibers

0c-6l-3sh

Prerequisite: AR219

Provides student with a working knowledge in design and execution of projects in weaving and related areas. Other fiber techniques, including handmade paper, will be available for the students to explore as desired.

AR 460 Advanced Metals

0c-6l-3sh

Prerequisite: AR216

Design and processes associated with art of metal are given greater concentration. The developing artist is encouraged to investigate, in depth, one or more of the metal arts as an extension of the basic course.

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AR 481 Special Topics

var-1-3sh

May provide an in-depth study of a narrowly defined area of the discipline. Subject matter may change with repeated offering of the course. May be repeated for credit.

AR 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

AR 493 Internship

var-3-12sh

Designed for art majors who wish to receive practical experience working within professional situations which relate to the student's artistic and occupational goals.

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Biochemistry

Biochemistry Program College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[BC301](#) [BC302](#) [BC311](#) [BC312](#) [BC480](#) [BC481](#) [BC482](#) [BC490](#)

BC 301 Biochemistry I

3c-0l-3sh

Prerequisites: BI105 and CH232

Introduction to biochemistry emphasizing the structure and function relationships of proteins, enzymes, and vitamins; bioenergetics; and the metabolism of carbohydrates and lipids.

BC 302 Biochemistry II

3c-0l-3sh

Prerequisite: BC301

Continuation of BC301 concerning the metabolism of nitrogen, amino acids, nucleotides, and nucleic acids and the function of cell membranes, hormones, and specialized tissues.

BC 311 Biochemistry Laboratory I

0c-4l-1sh

Prerequisites: BI105 and CH232

A companion to BC301 including experiments in photometry, enzyme kinetics and purification, lipid isolation and characterization, electron transport in respiration and photosynthesis, and use of radioisotopes.

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BC 312 Biochemistry Laboratory II

0c-4l-1sh

Prerequisite: BC311

A companion to BC302 including experiments in membrane characterization, properties of amino acids, isolation and function of nucleic acids, and synthesis of proteins and nucleic acids.

BC 480 Biochemistry Seminar I

1c-0l-1sh

Prerequisites: BC302 and 312

Discussion of recent trends in biochemical thought. Oral and written reports on assigned readings, library or laboratory research. Guest lecturers. The combination BC480 and BC490 counts as one writing-intensive course.

BC 481 Special Topics in Biochemistry

var-1-3sh

Prerequisites: BC302 or CH351

A lecture-discussion course of recent biochemical topics or those of unique interest. Topic and instructor to change annually.

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BC 482 Independent Research in Biochemistry

var-1-3sh

Prerequisites: BC302 and 312, permission by program coordinator

Student conducts a research project in any area of biochemistry. Work supervised by faculty. Does not involve regular class or lab hours. Enrollment by permission only.

BC 490 Biochemistry Seminar II

1c-0l-1sh

Prerequisites: BC302, 312, and 480

Discussion of recent trends in biochemical thought. Oral and written reports on assigned readings, library or laboratory research. Guest lecturers. The combination BC480 and BC490 counts as one writing-intensive course.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Biology

Department of Biology
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[BI103](#) [BI104](#) [BI105](#) [BI110](#) [BI111](#) [BI112](#) [BI114](#) [BI115](#) [BI120](#) [BI150](#) [BI151](#) [BI155](#) [BI210](#) [BI220](#) [BI232](#) [BI241](#) [BI250](#)
[BI251](#) [BI252](#) [BI261](#) [BI262](#) [BI263](#) [BI269](#) [BI271](#) [BI272](#) [BI281](#) [BI310](#) [BI311](#) [BI321](#) [BI322](#) [BI331](#) [BI350](#) [BI352](#) [BI360](#)
[BI361](#) [BI362](#) [BI363](#) [BI364](#) [BI401](#) [BI420](#) [BI425](#) [BI432](#) [BI450](#) [BI453](#) [BI463](#) [BI466](#) [BI475](#) [BI476](#) [BI478](#) [BI480](#) [BI481](#)
[BI482](#) [BI493](#)

BI 103 General Biology I

3c-2l-4sh

Prerequisite: Non-Biology majors only

A basic introduction to ecology, biochemistry, and cell biology, genetics, and evolution.

BI 104 General Biology II

3c-2l-4sh

Prerequisites: BI103, non-Biology majors only

A basic introduction to plant and animal physiology, neurobiology, animal behavior, and plant and animal reproduction and development.

BI 105 Cell Biology

3c-0l-3sh

Prerequisite: Non-Biology majors only

An introductory course to provide concepts and applications for understanding human biological function from the point of view of cellular biology.

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BI 110 Plant Biology

3c-4l-5sh

Prerequisite: BI105 or special permission

Plant structure, function, development, recognition and grouping, environmental relationships, and economic importance of plants considered.

BI 111 Principles of Biology I

3c-3l-4sh

Prerequisite: Must be taken after or concurrent with CH111

Introduces the student to principles of biology, specifically in the topics of cell structure and function, genetics, and physiology. Develops skills in the use of the scientific method. Designed for biology majors.

BI 112 Principles of Biology II

3c-3l-4sh

Prerequisite: BI111

Introduces the student to principles of biology, specifically in the topics of reproduction, development, evolution, ecology, and animal behavior. Develops skill in the use of the scientific method. Designed for biology majors.

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BI 114 Environmental Science

3c-0l-3sh

Prerequisite: Non-Biology majors only

An introduction to environmental science with an emphasis on human impacts. The course uses an interdisciplinary approach to the consideration of population growth, pollution, preservation of species, and establishment of public policy. Students will learn basic principles in ecology as the basis for understanding problems of the environment.

BI 115 Biotic Diversity of North America

3c-0l-3sh **Prerequisites:** Non-Biology majors and non-Biology minors only

An introduction to the biological diversity of North America from Barrow, Alaska, to Tehuantepec, Mexico. All major aquatic and terrestrial biomes occurring in North America will be examined with regard to plant forms, animal composition, and environmental (abiotic) conditions.

BI 120 Animal Biology

3c-4l-5sh

Prerequisite: BI105 or special permission

Morphology, physiology, embryology, ecology, taxonomy, social, and economic importance of animals; consideration of principles applicable to a correlation of classical with present-day zoology.

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BI 150 Human Anatomy

2c-3l-3sh

Prerequisite: Non-Biology majors only

Study of the functional systematic anatomy of the human. Lab studies center on nonhuman mammals whose anatomy is then related to the human condition.

BI 151 Human Physiology

3c-2l-4sh

Prerequisites: BI105, non-Biology majors only

Course deals with acquiring, through lecture presentations and laboratory experiments, an understanding of the basic functions and control of the major organ systems of the human body. Organ systems examined include the following: muscular system, cardiovascular system, respiratory system, endocrine system, renal system, digestive system, reproductive system, and nervous system.

BI 155 Human Physiology and Anatomy

3c-3l-4sh

Prerequisite: Non-Biology majors only (Food and Nutrition, Dietetics, Family and Consumer Sciences Education, Physical Education, and Safety Sciences majors) Study of structure and function of the human body. Emphasis is on normal function, with particular attention to functional anatomy, control mechanisms, and interrelationships among systems. Laboratory studies will include experimentation and dissection. For students with little or no science background.

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BI 210 Botany

2c-3l-3sh

Prerequisite: BI111-112, or permission of instructor

A survey of the major plant groups, their physiology, structure, life cycles, evolution and ecology, and economic roles of plants. Combined lecture-laboratory.

BI 220 General Zoology

2c-3l-3sh

Prerequisite: BI111-112 or permission of instructor

Examination of the evolution, form, and function of all major animal phyla, from sponges through chordates. Interactive lecture-laboratory sessions follow a phylogenetic approach to the Animal Kingdom and incorporate essentials of animal ecology, physiology, functional morphology, and behavior.

BI 232 Fundamentals of Microbiology

2c-3l-3sh

Prerequisites: CH101 or equivalent, non-Biology majors only (Food and Nutrition, Dietetics, Family and Consumer Sciences Education, and Hotel, Restaurant, and Institutional Management majors)

Study of microorganisms and the role they play in water, food disease, and infection. Food spoilage, poisoning, and disease are emphasized. General methods and techniques are emphasized in the laboratory.

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BI 241 General Microbiology

2c-3l-3sh

Prerequisites: Non-Biology majors only (Environmental Health, Nursing and Respiratory Therapy majors), BI105, CH101, or equivalent

Study of microorganisms and the role they play in water, soil, food, and infection. Microbes and disease will be emphasized. Standard methods and techniques are emphasized in laboratory.

BI 250 Principles of Microbiology

2c-3l-3sh

Prerequisite: BI111-112 or permission of instructor

Study of the structure, nutrition, and biochemical activities of microbes. Survey of viruses, blue-green bacteria, bacteria, algae, fungi, and protozoa and their diversity in natural environments. Course designed for biology and biology education majors.

BI 251 Field Botany

2c-3l-3sh

Prerequisites: BI210

The collection, preservation, identification, and distribution of selected herbaceous and woody plants of Western Pennsylvania. Emphasis on taxonomic principles, the use of keys and manuals, and the recognition of local flora.

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BI 252 Field Zoology

2c-3l-3sh

Prerequisite: BI220

Field natural history of vertebrates; identification, collection, and preservation techniques.

BI 261 Ornithology

2c-3l-3sh

Prerequisites: BI111-112 or BI103-104

A study of birds of the region. Indoor laboratory as well as early morning and possibly weekend field trips required.

BI 262 General Entomology

2c-3l-3sh

Prerequisite: BI220

Morphology, anatomy, ecology, taxonomy, and economic and public health importance of insect orders, particularly those of Western Pennsylvania; student collection and field trips required.

[Back to Top](#)**BI 263 Genetics**

2c-3l-3sh

Prerequisite: BI111

Deals with the distribution and function of the hereditary material; special emphasis on microbial, viral, and molecular genetics.

BI 269 Bioethics and Coevolution

3c-0l-3sh

Discussion and exploration of the coevolution of man and nature. Areas covered include the concepts of coevolution, bioethics, resource utilization, and possible future lifestyles. Designed for majors and nonmajors.

BI 271 Evolution

3c-0l-3sh

Prerequisite: BI111-112 or BI103-104, BI263

Historical development of evolutionary thought; evidence and operational mechanisms involved; origin and phylogenetic relationships of biological groups.

[Back to Top](#)**BI 272 Conservation of Plant and Animal Resources**

2c-3l-3sh

Prerequisites: BI111-112 or BI103-104

A study of accepted practices in soil, water, forest, and wildlife conservation. Saturday field trips.

BI 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

BI 310 Applied Entomology and Zoonoses

2c-3l-3sh

Prerequisite: BI220 or permission

Study of the measures for abatement or control of arthropods, rodents, birds, and other disease vectors of public importance; selection, chemistry, formulation, and safe application of insecticides, rodenticides, and fumigants; pesticing equipment; application of biological and other measures of control.

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BI 311 Environmental Biology

3c-3l-4sh

Prerequisites: Restricted to Elementary Education and Earth Science Education majors only

Laboratory and field course providing basic knowledge in biology and its practical implications. Physical and biological aspects of the environment are studied.

BI 321 Environmental Protection I

2c-3l-3sh

Prerequisites: BI111- 112, CH112, Environmental Health majors only or permission of instructor

Considers the impact of important components of the physical environment on health and deals with principles and methods for identification, evaluation, and control of such health hazards. Major attention to principles and methods of epidemiological investigation. Major credit only for Environmental Health majors.

BI 322 Environmental Protection II

2c-3l-3sh

Prerequisites: BI111- 112, CH112, Environmental Health majors only or permission of instructor

Subjects receiving attention include water and food supplies, domestic and industrial sewage and wastes, housing, accidents, community air pollution, domestic and industrial poisons, ionizing radiations, occupational health hazards.

BI 331 Animal Developmental Biology

2c-3l-3sh

Prerequisite: BI220 or by permission

Comparative and molecular development of vertebrate animals are the major considerations. General principles of development are illustrated using vertebrate, invertebrate, and plant materials.

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BI 350 Cellular Physiology

2c-3l-3sh

Prerequisites: BI111, CH231

Topics include cell membrane systems, bioenergetics, and information processing systems as well as growth and differentiation of cells and their organelles. Complements plant and animal physiology and biochemistry.

BI 352 Comparative Animal Physiology

2c-3l-3sh

Prerequisites: BI220, CH231

Comparative study of homeostatic mechanisms and systems in animals and their relation to fundamental chemical and physical events in cells.

BI 360 Medical Mycology

2c-3l-3sh

Prerequisite: BI111-112

A study of the mycology of pathogenic fungi. Consideration will include sources of infection, distribution, symptomatology, diagnosis, prognosis, immunology, and treatment. Pathogens are used in the course, and emphasis is placed upon actual laboratory technique and procedures.

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BI 361 Microbiology

2c-3l-3sh

Prerequisites: BI105, CH231

Introduction to morphology, physiology, and ecology of procaryotic organisms. Importance of microorganisms in basic and applied research, economics, infection, and immunology are discussed.

BI 362 Ecology

2c-3l-3sh

Prerequisites: BI111-112, BI210 or BI220

Study of interrelations and adaptations of organisms; includes consideration of physical and biotic environmental factors. Field trips.

BI 363 Medical Microbiology

2c-3l-3sh

Prerequisites: BI250 or permission

Study of disease caused by microorganisms with emphasis on human pathogens. Both epidemiology and aspects of host-parasite relationships will be discussed. Lab stresses methods of isolation and identification of pathogens.

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BI 364 Immunology

2c-3l-3sh

Prerequisites: BI250, CH232, or by permission

Physical and chemical properties of antigens and antibodies; nature of antigen-antibody interactions; mechanism of antibody formation; and immune reaction and disease. Lab employs serological techniques.

BI 401 Laboratory Methods in Biology and Biotechnology

2c-4l-3sh

Prerequisite: CH351

Theory and practice in a number of major analytical and preparative techniques currently in use in physiology, molecular biology, and biotechnology.

BI 420 Biology of Higher Invertebrates

2c-3l-3sh

Prerequisite: BI220

A phylogenetic overview of the higher invertebrates, Annelida through lower Chordata. A systematic approach on functional morphology and microstructure, behavior and physiology, under an evolutionary umbrella. Laboratory sessions offer additional research opportunities.

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BI 425 Herpetology

2c-3l-3sh

Prerequisite: BI220

A comprehensive survey of the classes Amphibia and Reptilia, including their classification, structure, origin, evolution, phylogenetic relationships, distribution, and natural history. Special emphasis is placed on the herpetofauna of Pennsylvania.

BI 432 Comparative Vertebrate Anatomy

2c-3l-3sh

Prerequisite: BI220

Discussion of anatomy of representative vertebrates from a comparative point of view. Stresses major organizational changes observed in vertebrate history.

BI 450 Pymatuning: Field Studies

var-3sh

During the summer session, various field courses are offered through the Pymatuning Laboratory of Ecology. The offerings will vary depending on the summer. Some of the possible offerings include Experimental Design, Fish Ecology, Behavioral Ecology, Aquatic Botany, and Ecological Genetics. Information regarding specific offerings available from Biology Department in spring.

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BI 453 Plant Physiology

2c-3l-3sh

Prerequisites: BI210, CH231

Studies physiological processes occurring in plants considered in relation to growth, development, and ecology of plants.

BI 463 Limnology

2c-3l-3sh

Prerequisite: BI362

An investigation into the physical, chemical, and biological aspects of inland waters and their interrelationships. In the laboratory the student will gain experience in the techniques involved in aquatic sampling and the analysis of data. (Saturday or Sunday labs may be required.)

BI 466 Principles of Virology

3c-0l-3sh

Prerequisite: BI263 or equivalent course in Genetics, or CH351 or equivalent course in Biochemistry, or permission of instructor

Topics include structure, classification, assay, and transmission of viruses; methods used in the study of viruses; viral replication, gene expression, and gene regulation; host-viral interactions and subviral pathogens.

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BI 475 Mammalogy

2c-3l-3sh

Prerequisite: BI220

A general discussion of mammals emphasizing systematics, distribution, and structural and functional modifications related to evolution of this group. Lab work samples numerous techniques that can be applied to mammalian biology.

BI 476 Parasitology

2c-3l-3sh

Prerequisite: BI220

Structure, physiology, ecology, life cycles, pathology, and treatment of parasitic protozoa and flatworm and roundworm species of man. Dissection of hosts for parasites.

BI 478 Mycology

2c-3l-3sh

Prerequisite: BI210

Involves a study of the systemics, morphology, and physiology of the kingdom Myceteae with emphasis on economically important and experimentally useful organisms.

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BI 480 Biology Seminar

1c-0l-1sh

Discussion of recent trends in biological thought and research. Students report on assigned readings and/or personal research.

BI 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

This course varies from semester to semester covering diverse topics in specific areas of biology.

BI 482 Independent Study

var-1-3sh

Prerequisites: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. A 2.5 GPA overall and in major courses required.

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. Work is supervised by a faculty member but does not involve regular class or laboratory hours.

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BI 493 Biology Internship

var-6-12sh

Prerequisites: Biology major with at least 57 semester hours, 2.5 overall QPA, and permission of the director of internships and the chairperson

Selected students have opportunity, under department supervision, to gain off-campus practical experience in area of interest. Only six credits may be applied toward major; total number of credits will be decided in consultation involving student, his/her advisor, and director of internships.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Business Education

Department of Office Systems and Business Education Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[BE101](#) [BE111](#) [BE131](#) [BE132](#) [BE134](#) [BE201](#) [BE250](#) [BE260](#) [BE261](#) [BE264](#) [BE273](#) [BE281](#) [BE311](#) [BE312](#) [BE481](#)
[BE482](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

BE 101 Microbased Computer Literacy

3c-0l-3sh

An introductory course designed to provide students with a fundamental understanding of computers. The course familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and data base management), and the social and ethical aspects of the impact of computers on society.

Note: This course is cross-listed as CO101 and IM101. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

BE 111 Foundations of Business Mathematics

3c-0l-3sh

Develops an understanding of numbers and knowledge of fundamental concepts in arithmetic and algebra in the solution of common and advanced problems encountered in business by the businessperson and consumer. Topics illustrating and emphasizing the application of business mathematics include methods used to compute interest discount, partial payments, discounting of notes and drafts, depreciation, amortization, sinking fund redemptions, effective rate of interest, and preparation of statistical data.

BE 131 Keyboarding and Document Formatting

3c-0l-2sh

Emphasis on development of correct techniques in typewriting, introduction to basic styles of business letters, simple tabulations, and simple manuscripts; specific standards of speed and accuracy are required.

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BE 132 Computer Keyboarding and Formatting

3c-0l-3sh

Prerequisite: BE131 or by exam

Emphasis on the development of speed, accuracy, and production ability; includes use of microcomputers, business letters with special features, business reports, business forms, rough drafts, and manuscripts.

BE 134 Keyboarding

1c-01-1sh

Exception: This course is open to students in all colleges without restriction.

A class designed to provide students with the fundamental skills to keyboard information quickly and accurately in fourteen one-hour sessions. It is intended for the student who does not require the additional skills included in keyboarding and document formatting, such as letter formats, manuscript typing, and tabulation. Recommended for students in computer science, journalism, management information systems, criminology, etc.

BE 201 Internet and Multimedia

3c-01-3sh

Prerequisite: BE/CM/CO/IM 101 or prior exposure to word processing and electronic mail

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BE/CM/CO/IM/LB 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

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BE 250 Electronic Office Procedures

3c-01-3sh

Prerequisite: BE131 or equivalent

A study of the theory and practice of the systems in an electronic office: records management, office environment, communication transmittal systems, reprographics, and office procedures. May not be used as a substitute for BE264.

BE 260 Alphabetic Shorthand Theory

3c-01-3sh

Basic principles of alphabetic shorthand with emphasis on mastery of shorthand theory, punctuation, grammar, and spelling. New matter dictation will be introduced during the last few weeks of class. The alphabetic system taught will vary. (Offered only on an occasional basis)

BE 261 Shorthand Theory

3c-01-3sh

An introductory course in the basic principles of Gregg Shorthand, Centennial Edition. (Offered only on an occasional basis)

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BE 264 Office Procedures

3c-01-3sh

Prerequisite: BE131 or equivalent

Advanced study of theory and practice in activities common to office records management; handling of mail; telephone and telegraph services; receiving callers; writing reports; dictation and transcription equipment; bank, financial, and legal transactions; shipping and receiving services; reference books; etc.

BE 273 Word Processing Applications

3c-01-3sh

Prerequisite: BE131 or equivalent

In this course students will develop a high degree of proficiency in the use of word processors. Emphasis is on

machine operations and production skills in formatting, text editing, and understanding word processing concepts. May not be used as a substitute for BE/CO/IM101.

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BE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

BE 311 Methods and Evaluation in Business and Marketing Education I

3c-0l-3sh

Prerequisites: PC101, EP202, and completion of the freshman and sophomore courses in the student's major areas. Includes general methods of teaching and evaluation plus methods and evaluation in basic business courses. Unit plans, lesson plans, and unit tests are emphasized. Techniques and procedures of teaching and classroom management are studied. Includes units in vocational education such as advisory committees, adult education, and federal legislation for funding.

BE 312 Methods and Evaluation in Business Education II

var-1-3sh

Prerequisite: BE311

Covers three sections of special methods and evaluation in office technologies: secretarial, accounting, and data processing. Objectives, planning, evaluating, and skill building are studied. Media and facilities for instruction are examined. Students elect sections needed for certification.

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BE 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

BE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Business Law

Department of Finance and Legal Studies
Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[BL235](#) [BL281](#) [BL336](#) [BL337](#) [BL382](#) [BL383](#) [BL440](#) [BL481](#) [BL482](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

BL 235 Introduction to Business Law

3c-0l-3sh

Introduction to legal systems, torts, contracts, and sales law.

BL 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

BL 336 Law of Business Organizations

3c-0l-3sh

Prerequisite: BL235

A study of the law dealing with commercial paper, agency, partnerships, corporations, and bankruptcy.

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BL 337 Consumer Law

3c-0l-3sh

Nature of law as it pertains to the consumer. Attention to consumer protection relationships; real and personal property; credit; environmental law; law pertaining to employment; landlord-tenant relationships; product liability; insurance; and family law.

BL 382 Real Estate Fundamentals

3c-0l-3sh

Designed to acquaint the student with the language, principles, and laws that govern the business of real estate. Emphasis on the underlying concepts of land, property, rights in realty, and the means, methods, and laws that govern the conveyance of these rights. Required course for taking the Pennsylvania Real Estate Sales Exam.

BL 383 Real Estate Practice

3c-01-3sh

Prerequisite: BL382

One of the two courses required by the Pennsylvania Real Estate Commission in order to take the Pennsylvania Real Estate Sales Licensing Exam. Topics include real estate brokerage, the real estate market, listing contracts, the Pennsylvania Real Estate Licensing and Registration Act and its rules and regulations, appraisal, property management, fair housing laws, ethical practices for real estate professionals, and real estate math.

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BL 440 Business Negotiations

3c-01-3sh

Prerequisites: BL235, junior standing

This course is open to all majors meeting the prerequisites. It covers the basic theories and strategies of negotiation in the business environment and provides instruction and practice to develop negotiation skills. The course focuses on the knowledge and skills needed in intercompany and intracompany negotiations. The course focuses on neither collective bargaining nor labor negotiations.

BL 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

BL 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Chemistry

Department of Chemistry
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CH101](#) [CH102](#) [CH111](#) [CH112](#) [CH113](#) [CH114](#) [CH116](#) [CH231](#) [CH232](#) [CH255](#) [CH281](#) [CH301](#) [CH321](#) [CH322](#) [CH323](#) [CH331](#) [CH335](#) [CH340](#) [CH341](#) [CH342](#) [CH343](#) [CH344](#) [CH351](#) [CH410](#) [CH411](#) [CH412](#) [CH421](#) [CH441](#) [CH481](#) [CH482](#) [CH493](#) [CH498](#)

CH 101 College Chemistry I

3c-2l-4sh

The basic principles and concepts of inorganic chemistry are developed from the standpoint of atomic and molecular structure with illustrative examples from descriptive chemistry. The laboratory portion of the course illustrates physical and chemical properties in a qualitative and quantitative manner. The course is designed for selected majors within the College of Health and Human Services.

CH 102 College Chemistry II

3c-2l-4sh

Prerequisite: CH101

The basic fundamental principles and concepts of organic and biochemistry are developed. Deals primarily with structural features of organic compounds, the chemistry of functional groups, and practical examples and uses of organic compounds. The laboratory portion illustrates properties and reactions of representative organic compounds. The course is designed for selected majors within the College of Health and Human Services.

CH 111 General Chemistry I

3c-3l-4sh

Lecture-discussion of principles of chemistry, including theory and applications. The lab illustrates principles discussed. Topics discussed include scientific measurements, simple definitions and concepts, the mole, stoichiometry, gas laws, electronic structure of the atom, bonding, thermochemistry, and descriptive chemistry of the elements.

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CH 112 General Chemistry II

3c-3l-4sh

Prerequisite: CH111

Continuation of General Chemistry I. Topics discussed include the solid and liquid state, solutions, kinetics, equilibria, acids and bases, solubility equilibria, thermodynamics, electrochemistry, and descriptive chemistry of the elements.

CH 113 Concepts in Chemistry

3c-3l-4sh

Introductory course for chemistry majors. Topics covered include atomic theory, an introduction to chemical reactions, stoichiometry, thermochemistry, chemical bonding, molecular geometry, kinetic-molecular theory of gases, the liquid

and the solid states, and solution theory.

CH 114 Basic Inorganic Chemistry

3c-3l-4sh

Prerequisite: CH113

Topics include chemical kinetics, equilibrium and thermodynamics, acids and bases, electrochemistry, coordination chemistry, and descriptive chemistry of selected elements.

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CH 116 Basic Inorganic Chemistry

3c-3l-2sh

Prerequisite: CH111 and 112

Required for chemistry majors who have taken CH111 and 112. A systematic study of the chemistry of the elements will be presented in both the lecture and the laboratory. Also included will be the chemistry of coordination compounds. This course starts at the beginning of the second half of the spring semester and is taught concurrently with CH114.

CH 231 Organic Chemistry I

3c-4l-4sh

Prerequisite: CH112 or 114

A study of compounds of carbon, with special emphasis on structure-reactivity relationships. Laboratory work emphasizes methods of separation and purification of organic compounds.

CH 232 Organic Chemistry II

3c-4l-4sh

Prerequisite: CH231

A continuation of Organic Chemistry I with an introduction to spectroscopic techniques. Laboratory work emphasizes the synthesis of representative compounds.

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CH 255 Biochemistry and Nutrition

3c-0l-3sh

Prerequisite: CH102

Course for Home Economics majors; studies chemistry and biological function of biologically active compounds with respect to nutritional requirements.

CH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

CH 301 Chemistry Seminar

1c-0l-1sh

Discussion of current technical literature and current research problems of staff. Lectures by outside chemists and student presentations. Open to junior or senior chemistry majors and to others by permission of the chairperson.

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CH 321 Quantitative Analysis

3c-4l-4sh

Prerequisite: CH112 or 114

Theory and practice of quantitative analysis, including gravimetric and volumetric analysis; special emphasis on perfecting student's laboratory techniques and application of general chemical knowledge through problem solving.

CH 322 Instrumental Analysis

3c-4l-4sh

Prerequisite: CH341

Modern instrumental methods of chemical analysis. Student learns theory behind the instrument, principles of operation, interpretation of data obtained, and limitations of methods.

CH 323 Analytical Methods

3c-4l-4sh

Prerequisites: CH112 and non-Chemistry major

Principles of precipitation, acid-base, oxidation-reduction, and equilibria are applied to problem solving and to laboratory determinations; instrumental methods of analysis, such as colorimetry, atomic absorption and flame emission, gas chromatography, etc.

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CH 331 Organic Molecular Structure Determination

4c-var-3sh

Prerequisites: CH231-232 (CH232 may be taken concurrently)

Gives the student experience in systematic identification of various classes of organic compounds by both chemical and physical methods.

CH 335 Advanced Organic Chemistry

3c-0l-3sh

Prerequisites: CH232 and 341

Selected topics of current interest covered. Possible topics include reaction mechanisms, molecular spectroscopy, stereochemistry, natural products, heterocyclics, polymer chemistry, and organic synthesis.

CH 340 Physical Chemistry for the Biological Sciences

3c-0l-3sh

Prerequisites: MA122 or 124 or 128, and PY112 or 132; CH232

One-semester course for Biochemistry and Biology majors. Chemical thermodynamics, equilibria, kinetics; quantum mechanics; and spectroscopy especially as applied to biomechanical systems.

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CH 341 Physical Chemistry I

4c-0l-4sh

Prerequisites: MA122, 124, or 128 and PY112 or 132; CH112 or 114

Chemical thermodynamics with applications to solutions, phase, and chemical equilibria-kinetic theory.

CH 342 Physical Chemistry II

3c-0l-3sh

Prerequisite: CH341

Study of solids, liquids, surfaces, chemical kinetics, electrochemistry, atomic and molecular structure.

CH 343 Physical Chemistry Laboratory I

0c-3l-1sh

Prerequisites: CH321, 341

Experiments illustrating application of fundamental laws to actual systems. Carries writing-intensive credit.

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CH 344 Physical Chemistry Laboratory II

0c-3l-1sh

Prerequisites: CH342, 343

Extension of Physical Chemistry Laboratory I; experiments related to chemical kinetics, molecular spectroscopy, and other topics of physical chemistry.

CH 351 Biochemistry

4c-0l-4sh

Prerequisite: CH231

Study of chemistry and biological functions of carbohydrates, lipids, proteins, minerals, vitamins, and hormones.

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CH 410 Advanced Inorganic Chemistry Laboratory

0c-3l-1sh

Prerequisite: CH322

A laboratory course in which the techniques used in the synthesis and characterization of inorganic compounds will be explored. Emphasis will be placed on the preparation of a wide variety of inorganic compounds and the methods by which they are identified and characterized.

CH 411 Advanced Inorganic Chemistry

3c-0l-3sh

Prerequisite: CH341

Gives understanding of advanced theories of atomic structure, chemical bonding, acids and bases, coordination compounds, and selected topics.

CH 412 Advanced Structural and Synthetic Methods in Inorganic Chemistry

2c-2l-3sh

Prerequisites: CH411 and either CH410 or 322

Advanced techniques used in the synthesis and characterization of inorganic compounds will be explored. In lecture, emphasis will be placed on the theory and application of structural and spectroscopic methods of characterization. In lab, emphasis will be placed on advanced methods of synthesis and structural characterization using representative examples of important classes of inorganic compounds.

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CH 421 Advanced Instrumental Analysis

4c-var-3sh

Prerequisite: CH322

Study of modern chemical analysis, using advanced instrumental techniques; emphasis on theory, principles of operation, capabilities, and limitations of advanced analytical instruments used.

CH 441 Advanced Physical Chemistry

3c-0l-3sh

Prerequisite or corequisite: CH342

Study of fundamental ideas of quantum and statistical mechanics, molecular structure, and other topics of current interest.

CH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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CH 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

CH 493 Internship in Chemistry

var-4-9sh

Prerequisites: CH113, 114, 231, 232, 321, 341, and departmental approval

Full-time involvement in an actual "on-the-job" situation in an industrial or research laboratory under the tutelage of a selected preceptor. A department faculty member will work closely with the student and preceptor and will assume responsibility for making the final evaluation and assigning a grade.

CH 498 Problems in Chemistry

var-1-2sh

Prerequisite: Permission of chairperson

Course of independent study on selected problems, including lab work, library reading, and conferences with staff member. A minimum of 4 hours per week required per credit.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Communications Media

Department of Communications Media College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CM101](#) [CM200](#) [CM201](#) [CM230](#) [CM271](#) [CM281](#) [CM301](#) [CM303](#) [CM330](#) [CM335](#) [CM375](#) [CM380](#) [CM390](#) [CM395](#)
[CM403](#) [CM404](#) [CM405](#) [CM430](#) [CM435](#) [CM440](#) [CM441](#) [CM445](#) [CM449](#) [CM450](#) [CM451](#) [CM452](#) [CM453](#) [CM454](#)
[CM455](#) [CM456](#) [CM460](#) [CM472](#) [CM473](#) [CM476](#) [CM477](#) [CM478](#) [CM480](#) [CM481](#) [CM482](#) [CM493](#)

CM 101 Communications Media in American Society

3c-0l-3sh

Required of Communications Media majors

Introduction to the evolution, status, and future of communications media. Students explore intrapersonal communication through self-assessment, values clarification, and feedback; interpersonal communication through interviews, observations, case studies, and gaming; and mass communications through the examination of the processes and the technology utilized to disseminate and manage information. Career paths, field applications, professional associations, and the primary literature are investigated. (Previous title: Survey of Communications Media)

CM 200 Images

3c-0l-3sh

Prerequisite: CM101

The course examines the basic visual and aural elements, the strategies and options of techniques, the psychological and physiological implications of creative composition, and the range of media and formats.

CM 201 Internet and Multimedia

3c-0l-3sh

Prerequisite: BE/CM/CO/IM 101 or prior exposure to word processing and electronic mail

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BE/CM/CO/IM/LB 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

CM 230 Issues in International Communication

3c-0l-3sh

Survey of international communications with particular emphasis on communications flow, four-press theories, ownership, structure and access to media, government/media relationships, AND the impact of communications on developed and developing countries.

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CM 271 Beginning Photography

3c-0l-3sh

Prerequisite: CM101 or permission

Working with black-and-white materials, the student learns to operate a camera, develop film, make contact prints and enlargements, and mount prints for display. Ancillary topics are introduced such as filtration, print spotting, flash, and the use of accessory lenses. Student is required to have a 35mm camera, preferably a single-lens reflex, with fully manual focusing and exposure capability.

CM 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

CM 301 Technology for Learning and Instruction

3c-0l-3sh

Prerequisite: EP202 or permission

Preservice teachers gain competencies in selection, evaluation, and utilization of various instructional technologies. Application of new technologies to teaching and learning will be emphasized, along with performance-based activities in instructional design. A major portion of the course is devoted to the integration of computer-based instructional activities in the school curriculum. Does not count towards credits needed for Communications Media major.

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CM 303 Scriptwriting

3c-0l-3sh

Prerequisite: CM101

Required of Communications Media majors Introduction to the design of media materials and script writing. Style and techniques of writing will be analyzed. Classroom emphasis is on writing, critiques, and revision of designs and scripts. Scripts for audio, still projection, and motion picture and television productions will be written.

CM 330 Communications Media in Training and Education

3c-0l-3sh

Prerequisites: CM101, 303 The course reviews the historical growth and philosophies of the design and development of training and education products and processes. The student examines the principal roles and functions of human and material resource professionals for training (performance improvement), education (competency improvement), and development (personal and organizational growth).

CM 335 Consulting Practices in Communications

3c-0l-3sh

Prerequisite: CM101

The course presents the theoretical views and clinical applications of consulting skills and practices associated with and needed by communication professionals. Presented will be the functions and role of the consultant, the client's perspective on consulting, hiring a consultant, ethics in consulting, personal assessment tests, and related literature and models.

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CM 375 Mass Media and Behavior

3c-01-3sh

Prerequisites: PC101 and junior or senior status

Theory and research on the influence of the mass media on human behavior and attitudes. Topics include the effects of news and political advertising on public opinion; the effects of racist and sexist portrayals; and the effects of violence and pornography on aggressive behavior. (Also offered as PC375; may be taken only once)

CM 380 The History of African Americans in Film

3c-01-3sh

Traces the historical development of the roles of African Americans in film and television. Students examine the early stereotypic portrayals of this group, the origins of these stereotypes, and the ongoing changes, positive and negative, that have occurred regarding the media representation through research, film, and archetypal analysis, observation, and discussion. The new generation of African American filmmakers and their creative efforts to promote more realistic portrayals are analyzed.

CM 390 Practicum in Communications

var-1-3sh

Prerequisites: CM101, written permission

An opportunity with credit for students to make contributions to department and campus media-related facilities and offices including WIUP-TV, WIUP-FM, *Penn, Oak*, Public Relations, Media Resources. Repeatable for a maximum of six credits.

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CM 395 Career Planning in Communications Media

1c-01-1sh

Prerequisite: Minimum 20 CM credits

The course serves as a primary skill-building and strategy-seeking experience for the internship program and later career entry and growth. Extensive writing, research, and individual counseling are involved. Travel may be necessary.

CM 403 Writing for Broadcasting

3c-01-3sh

Prerequisites: CM101, permission

The course acquaints students with the various techniques used in writing scripts for radio and television and makes them aware of the visual impact of television and the audio impact of radio. Students are made aware of the limitations of television and radio as well as their unique features.

CM 404 Foundations of Broadcasting

3c-01-3sh

Prerequisites: CM101, permission

Examination of the historical, legal, and economic aspects of broadcasting. Impact of broadcasting on society will be explained as well as the impact of the new technology on our existing broadcasting systems.

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CM 405 Radio Production

3c-01-3sh

Prerequisites: CM101, 200, 403, 404, permission

An introduction to production techniques as they pertain to radio. The student will be exposed to programming, scripting, producing programs, intros, outros, commercials, public service announcements, station identifications, and promotional announcements. The course will also deal with the interaction of a radio station with national networks

and with the real-life concerns of deadlines.

CM 430 Analysis of Communication Products and Processes

3c-01-3sh

Prerequisites: CM330, permission

The course will provide both a framework for action and tools to measure the effectiveness of training and education in human and material resource development programs. The course contains practical theory and problem-focused discussion with students regarding application. Topics include instrument choice or construction, data collection and analysis, interpretation, and alternative presentation strategies of the findings.

CM 435 Organizational Development in Communications Media

3c-01-3sh

Prerequisites: CM330, permission

The course presents the basic methods and approaches for organization, management, and development of human and material resource departments. The topics include the primary activities and roles of an HMRD director, problem-solving functions in reporting to management, characteristics associated with career systems, and special topics.

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CM 440 Communications Graphics

3c-01-3sh

Prerequisites: CM101, permission

Provides basic experiences in planning and producing a commonly used television studio, industrial display, and classroom graphics which are applicable in educational, industrial, and medical training programs. Experiences include technical layout and lettering; color; mounting and laminating; copying and reproduction techniques utilizing photography and xerography; photo silk screening and photo sketching.

CM 441 Advanced Communication Graphics

3c-01-3sh

Prerequisites: CM440, permission

Provides in-depth experience in planning and preparing graphic materials commonly used in the communications profession; graphic materials include design, photosketching, lettering, slide titling and duplication, preparation of camera-ready art, lithographic film and master layout sheets, professional slide flat production and photocopy, large-format transparency production, color key, and color systems.

CM 445 Applications and Techniques of Motion Pictures

3c-01-3sh

Prerequisites: CM444, permission

A survey of the role that motion picture film production plays in society. Major emphasis will be placed on the variety of applications with special consideration given to motion pictures as a tool to support research.

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CM 449 Basic Audio Recording Techniques

3c-01-3sh

Prerequisites: CM101, 403, permission

Theory and practice of recording sound, developing an understanding of the language of sound recording as well as the ability to make sound recordings. Exposure to recording for various media including radio, music, motion pictures, television, multi-image, and slide and tape production. Material also appropriate for teachers who wish to make use of tape recorder in the classroom. Students will gain hands-on experience through labs and projects to be completed outside of class. Students will be expected to provide an audio tape recorder.

CM 450 Advanced Audio Recording Techniques

3c-01-3sh

Prerequisites: CM449, permission

Sound recording utilizing advanced techniques and concentrating on specific applications. Student participates in an intensive lab experience utilizing the most advanced equipment available. Emphasis on application, editing, signal processing, and multi-track recording. Student is expected to produce a sound recording for a specific use of professional quality.

CM 451 Television Production

3c-01-3sh

Prerequisites: CM101, permission

Develops basic skills in television production and direction. Consideration of operating problems of a television studio, as well as functions, limitations, and capabilities of television equipment and facilities.

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CM 452 Electronic Field Production

3c-01-3sh

Prerequisites: CM451, permission

Provides in-depth field experience with portable video equipment and lighting. Students edit programs to broadcast quality.

CM 453 Broadcast News Process

3c-01-3sh

Prerequisites: CM405, 451, permission

Reporting and presenting radio and TV news programs. Analysis of news and public affairs broadcasting.

CM 454 Broadcast Regulation

3c-01-3sh

Prerequisites: CM404, permission

This course delves into the areas of law affecting broadcasters. Topics covered are laws pertaining to cable television, station licensing and renewal, political broadcasting, libel, copyright, the right of reply, and privacy. The historical development of the FCC and its jurisdictions will also be examined. Case studies will be discussed along with the relevancy of some laws as they pertain to today's society.

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CM 455 Television Performance

3c-01-3sh

Prerequisites: CM451, permission

Provides theory and practice for performing on television. Detailed analysis of a performer's role in a variety of settings.

CM 456 Broadcast Management

3c-01-3sh

Prerequisites: CM404, permission

Detailed examination of the management decision-making process in radio and television; particular reference to program policies, personnel administration, and community relations.

CM 460 Alternative Systems of Communication

3c-01-3sh

Prerequisites: CM404, permission

The implications and capabilities of cable systems, the private and industrial utilization of nonbroadcast services, the emergence of satellite CATV networking, and the application of two-way cable response systems.

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CM 472 Photography II: The Print

3c-01-3sh

Prerequisites: CM271, permission

Students will develop camera and print-making skills to the degree that they can produce salon-quality photographic prints. Students will understand the photographic processes utilized in producing a high-quality negative and print to the extent that they can manipulate those processes to communicate an intended message with their photographs. Emphasis on camera and print control as well as composition and negative and print manipulation.

CM 473 Creative Darkroom Techniques

3c-01-3sh

Prerequisites: CM472, permission

Students pursue photographic competencies to a high level of proficiency. Specific topics may vary as photographic technology changes, but typical assignments include high-contrast photography through the use of graphic arts materials, multiple exposures in the camera and in projection printing, making and using paper negatives, and hand coloring of photos.

CM 476 Commercial Photography

3c-01-3sh

Prerequisites: CM271, 471, major status, permission

An introduction to professional studio and location work, including making pictures for advertising, catalogs, publicity, and other commercial purposes. Deals with lighting, backgrounds, and camera use for photographing portraits, products, and architecture. In addition to use of the student's own 35mm camera equipment, the course provides experience with the 4x5-inch view camera. Ability to solve basic algebra problems is required.

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CM 477 Slide/Sound Production

3c-01-3sh

Prerequisites: CM271, 303, 440, 449, permission

This course is designed to provide advanced students with the theoretical and practical experiences necessary to be able to plan, design, produce, and present effective slide/tape presentations for use in education, industry, and the allied health professions.

CM 478 Multi-image Production

3c-01-3sh

Prerequisites: CM271, 303, 440, 449, permission

An advanced production course employing instructional development techniques to emphasize the unique features of multiple image messages primarily through 2x2-inch slides. Scripting, storyboarding, computer programming, and audiovisual production techniques are used in the course project.

CM 480 Independent Study

3c-01-3sh

Prerequisites: Communications Media Major only, permission

Students may, with the sponsorship of a department faculty member and consensus of the department, elect an advanced course of study which reflects the academic goals of the department. Exemplary project is intended to extend or combine field knowledge not readily available through other course offerings. Students may take one or more semester hours (40 hours or more of commitment=1sh), and multiple projects are possible; a maximum of 3sh are permitted towards a degree program.

CM 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

CM 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

Students may, with the sponsorship of a department faculty member and consensus of the department, elect an advanced course of study which reflects the academic goals of the department. Approval is based on academic appropriateness and availability of resources. Exemplary project is intended to extend or combine field knowledge not readily available through other course offerings. Students may take one or more semester hours (40 hours or more of commitment=1 sh), and multiple projects are possible; a maximum of 3sh are permitted towards a degree program.

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CM 493 Internship

var-6-12sh

Prerequisites: Communications Media majors only, junior or senior status, permission

Supervised professional work experience in communications media. Sites reflect the academic goals of the department and are approved and administered by a department coordinator. Location, duties, length of internship, and hours are individually tailored to student career goals. Sites represent wide application of process and technology of communications in business, education, allied health, or other agencies. Students may take 3 or more sh per semester (40 hours or more of commitment=1 sh), and multiple experiences are possible; a maximum of 3sh of internship and/or field experiences are permitted towards a degree program.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Computer Science

Department of Computer Science
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CO101](#) [CO105](#) [CO110](#) [CO201](#) [CO205](#) [CO220](#) [CO250](#) [CO281](#) [CO300](#) [CO310](#) [CO315](#) [CO319](#) [CO320](#) [CO345](#) [CO355](#)
[CO360](#) [CO362](#) [CO380](#) [CO405](#) [CO410](#) [CO419](#) [CO420](#) [CO424](#) [CO430](#) [CO432](#) [CO441](#) [CO444](#) [CO450](#) [CO451](#) [CO460](#)
[CO480](#) [CO481](#) [CO482](#) [CO493](#)

CO 101 Microbased Computer Literacy

3c-0l-3sh

An introductory course designed to provide students with a fundamental understanding of computers. The course familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and data base management), and the social and ethical aspects of the impact of computers on society. (Does not count toward Computer Science major. Replaced CO200 in 1989-90.)

Note: This course is cross-listed as BE101 and IM101. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

CO 105 Fundamentals of Computer Science

3c-0l-3sh

This is the first course for Computer Science majors. It is required of all Computer Science students and is appropriate for other Natural Sciences and Mathematics students. Topics include the fundamental concepts of computer architecture, algorithm development and analysis, programming languages, software engineering, data organization and representation, and systems software. Hands-on introduction to computer usage with an emphasis on terminology and the underlying connections within the discipline.

CO 110 Problem Solving and Structured Programming

3c-0l-3sh

(For Science, Mathematics, and Computer Science majors, and for others who have a sufficiently quantitative orientation) Basic structure of modern digital computers; problem analysis and computer solution using flowcharting and the C++ language. Exemption or credit by examination possible.

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CO 201 Internet and Multimedia

3c-0l-3sh

Prerequisite: BE/CM/CO/IM 101 or prior exposure to word processing and electronic mail.

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of

their own design. (BE/CM/CO/IM/LB 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit)

CO 205 Programming Languages for Secondary Education

3c-0l-3sh

Prerequisite: Education major

Provides an introduction to the three high-level programming languages most commonly used in secondary education: Pascal, LOGO, and BASIC, with particular emphasis on Pascal. Also includes a comparative study of the control structures and data structures present in these three languages. This course is intended to establish a solid foundation to prepare prospective teachers of computing courses K-12. (Note: Previous experience with microcomputers is strongly recommended. Does not count toward a Computer Science major. Credit toward graduation will not be given if this course is taken after completing six or more credits of computer science courses.)

CO 220 Applied Computer Programming

3c-0l-3sh

Prerequisite: CO110 or equivalent

Structured programming principles and techniques, as implemented through the ANS COBOL language; program design using top-down techniques; program and project documentation; introduction to sequential file algorithms.

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CO 250 Introduction to Numerical Methods

3c-0l-3sh

Prerequisites: CO110, MA122 or 123 or 127

Algorithmic methods for function evaluation, roots of equations, solutions to systems of linear equations, interpolation, curve fitting, numerical differentiation and integration; errors in computation. Introduction to FORTRAN90 programming and introduction to the use of a mathematical software package to graph functions.

CO 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

CO 300 Assembly Language Programming

3c-0l-3sh

Prerequisite: CO110 or equivalent

Examination of structure and languages of machines; representation of data, addressing techniques, symbolic coding, assemblers, macros, etc.; problem solution using assembly language.

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CO 310 Data Structures

3c-0l-3sh

Prerequisite: CO110

Basic concepts of data; storage systems and structures; lists, arrays, strings, hashing techniques; searching and sorting techniques; data structures in programming languages; string processing. Programming in a object-oriented language.

CO 315 Large File Organization and Access

3c-0l-3sh

Prerequisite: CO220

The organization of large computer files for business systems, information systems, and other applications. Use of advanced COBOL for efficient file access. Evaluation of file access methods and directory organization. Introduction to random file algorithms and integrated file systems.

CO 319 Software Engineering Concepts

3c-0l-3sh

Prerequisite: CO315 or permission of instructor

Includes the collection of tools, procedures, methodologies, and accumulated knowledge about the development of the software life cycle; current methodologies, tools, and techniques being applied to each phase will be discussed in depth with localized exercises given to reinforce learning of concepts.

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CO 320 Software Engineering Practice

1c-2d-3sh

Prerequisite: CO319 or permission of instructor

Planning, design, and implementation of large software systems using software engineering techniques. Students work in project teams on real or realistic software development projects. Credit for either CO320 or CO493 may count toward computer science major requirements for graduation but not both; the other course credits are free electives.

CO 345 Data Communications

3c-0l-3sh

Prerequisites: CO110 or 220; MA121 or 123; MA214 or 216 or 217; or equivalents

Communication of digital data between computers and to and from terminals and other peripherals; computer networks; small design projects or term paper.

CO 355 Computer Graphics

2c-1l-3sh

Prerequisites: CO310 and junior status

The use of computer graphics hardware and software. An overview of current applications and experience with representative software will introduce current practice. Foundations in primitives, geometry, and algorithms of passive computer graphics are the principal focus of the course. A brief introduction to interactive computer graphics will be included.

CO 360 IBM Job Control Language

1c-0l-1sh

Prerequisite: CO220 or permission of instructor

Detailed study of the job control language (JCL) of the IBM OS operating system; comparison of OS with the locally available DEC operating system, VAX VMS.

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CO 362 UNIX and C

3c-0l-3sh

Prerequisite: CO310 or permission of instructor

An introduction to the history, features, syntax, and applications of UNIX and C. Lectures, reading, and hands-on projects. Coverage includes two or more command interfaces, variations in C, and portability issues. UNIX is a trademark of Bell Laboratories.

CO 380 Seminar on the Computer Profession

0c-1d-1sh

Prerequisite: Permission (See text below)

Reading, review, and discussion of the current literature of computer science and industry trade journals; effective oral presentations; employment prospects. Should be taken the semester before an internship or the first semester of the senior year. Should not be taken at the same time as CO480.

CO 405 Artificial Intelligence

3c-0l-3sh

Prerequisite: CO310

An introduction to the field of artificial intelligence, i.e., the study of ideas that enable computers to process data in a more intelligent way than conventional practice allows. The course covers many information representation and information processing techniques. Students will explore the underlying theory including matching, goal reduction, constraint exploration, search, control, problem solving, and logic.

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CO 410 Processor Architecture and Microprogramming

3c-0l-3sh

Prerequisites: CO300 and 310

The logical description of computer processor structure (architecture), with emphasis on the microprogramming approach. Project assignments using minicomputer.

CO 419 Software Development with Ada

3c-0l-3sh

Prerequisite: CO310

Introduction to the Ada programming language as a tool of the software engineer. Projects will use the advanced programming constructs resident in Ada, including packages, multi-tasking, generic units, exception handlers, and concurrent programming.

CO 420 Modern Programming Languages

3c-0l-3sh

Prerequisites: CO220 and 310

Comparative study of the properties and applications of a range of modern higher-level programming languages, including Ada, APL, C, LISP, LOGO, Pascal, PROLOG, and SNOBOL. Comparison with older languages such as ALGOL, BASIC, COBOL, FORTRAN, and PL/I.

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CO 424 Compiler Construction

3c-0l-3sh

Prerequisites: CO300 and 310

Relates the formal concepts of automata and language theory to the practicality of constructing a high-level language translator. The structures and techniques used in lexical analysis, parsing, syntax directed translation, intermediate and object code generation, and optimization are emphasized.

CO 430 Introduction to Systems Programming

3c-0l-3sh

Prerequisites: CO300 and 310

Concepts and techniques of systems programming with an emphasis on assembly, linking, loading, and macro processing for user programs. Overview of higher-level language translation and system control. Programming and

research projects.

CO 432 Introduction to Operating Systems

3c-0l-3sh

Prerequisites: CO300, CO310 or equivalents

Introduction to the principles of operating system design and implementation. Topics include interrupt service, process states and transitions, spooling, management of memory and disk space, virtual storage, scheduling processes and devices, and file systems.

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CO 441 Data Base Management

3c-0l-3sh

Prerequisite: CO315

Review of data base concepts. Detailed study of data base management approaches. Comparative study of commercially available data base management systems. Project on the locally available data base systems.

CO 444 Productivity Tools and Fourth Generation Language

3c-0l-3sh

Prerequisite: CO 441 or IM 450

Develop an understanding of productivity issues and how Fourth Generation Languages (4GL) improve productivity as contrasted with 3GLs. Advances in the programming paradigm such as event driven programming, objects, reusability, graphical user interface (GUI) design and development, information systems based on relational data bases, and client/server technology are addressed. Students will gain a practical experience with these concepts through an in-depth study of Visual Basic and the development of a GUI interface to a relational database using Visual Basic.

CO 450 Applied Numerical Methods

3c-0l-3sh

Prerequisites: CO250, MA171, and MA241, or equivalents

Polynomial approximations using finite differences, with applications in numerical integration and differentiation. Numerical solution of initial value ordinary differential equations. The APL language will be introduced and used, along with FORTRAN, in programming selected algorithms.

CO 451 Numerical Methods for Supercomputers

3c-0l-3sh

Prerequisites: MA121 and 122, or MA123 or 127, MA171, CO250

Supercomputers make use of special computer architectures—vector and parallel processors—in order to achieve the fastest processing speed currently available. Students will be introduced to these features and will learn how numerical algorithms can be constructed to exploit supercomputers' capabilities. Students will gain practical experience in programming for the Cray, YMP, in incorporating existing scientific software packages into user-written programs, in submitting remote jobs to the Pittsburgh Supercomputer Center, and in producing animated graphical output to summarize the typically large volume of output data generated by large scientific programs. (Also offered as MA451; may not be taken for duplicate credit)

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CO 460 Theory of Computation

3c-0l-3sh

Prerequisites: CO310 or consent of instructor

Formal methods for describing and analyzing programming languages and algorithms. Backus-Naur forms; productions; regular expressions; introduction to automata theory; Turing machines; recent concepts in algorithm

theory computability.

CO 480 Seminar on Technical Topics

0c-11-1sh

Prerequisites: See text below

Reading, review, and discussion of the current literature of computer science and industry professional and technical journals; oral presentations. Should be taken the last semester of the senior year. Should not be taken at the same time as CO380.

CO 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Seminar in advanced topics of computer science; content will vary depending on interests of instructor and students. May be repeated for additional credit. Special Topics numbered 481 are primarily for upper-level undergraduate students.

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CO 482 Independent Study

var-1-4sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval based on academic appropriateness and availability of resources.

CO 485 Independent Study

var-12sh

Prerequisites: Permission of a computer science faculty member who agrees to supervise the student's project. Arrangements for selection of a specific topic must be made.

CO 493 Internship in Computer Science

var-12sh

Prerequisites: CO300, 310, 315, 319, 380, other courses depending on type of internship position desired, completion of application, and selection by committee

Positions with participating companies provide students with paid experience in computer science under the supervision of the companies and faculty. Requirements include three on-site consultations, two university consultations, completion of progress reports, oral presentation, and a final cumulative paper. Offered only to students during the second semester and summer of the junior year or the summer and the first semester of the senior year. No more than four semester hours of CO493 may be applied toward the 30-semester-hour requirement for a major in Computer Science.

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Consumer Services

Department of Human Development and Environmental Studies
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CS101](#) [CS117](#) [CS205](#) [CS213](#) [CS217](#) [CS281](#) [CS299](#) [CS310](#) [CS312](#) [CS315](#) [CS357](#) [CS399](#) [CS413](#) [CS416](#) [CS421](#) [CS433](#)
[CS461](#) [CS462](#) [CS463](#) [CS464](#) [CS465](#) [CS468](#) [CS481](#) [CS482](#) [CS493](#)

CS 101 Personal and Family Management

3c-0l-3sh

Management as a system and its relationship to individuals and families. Formulation of goals, values, and standards; use of decision-making process; utilization of resources.

CS 117 Design Graphics

1c-0l-3sh

Introduction to drafting and presentation techniques as they relate to interior design. Two- and three-dimensional graphic hand skills including drafting, delineation of shading and perspective, application of color, media, texture, tone, and lettering are introduced.

CS 205 Color Theory and Application

3c-0l-3sh

The theoretical basis of color is presented as it relates to the human visual system, light, pigment, perception, and measurement. The application of color theory is discussed in terms of interior design, merchandising, and display.

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CS 213 Residential Appliances and Consumer Electronics

2c-2l-3sh

Consumer education in the selection, use, and care of home equipment appliances and consumer electronics; the relationship of energy sources and utilities to major appliances, portable and personal care appliances, and consumer electronics.

CS 217 Interior Design

1c-3l-3sh

Prerequisite: AR120 or equivalent

Emphasis upon development of knowledgeable consumers in the selection and design of a home, its furnishing, and its total environment.

CS 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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CS 299 Cooperative Education I

0sh

Prerequisite: Approval of co-op coordinator

Designed to combine theory with practical application through job-related experiences. Consumer services majors are actively employed in business, industry, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives. First of two alternating work experiences required.

CS 310 Human Factors in Interior Design

3c-0l-3sh

Prerequisite: Junior standing

The study of human and technology systems interface as related to interior design. Emphasis on ergonomic and economic decision making to insure that the user can function with a minimum of stress and a maximum of efficiency.

CS 312 Housing and Culture

3c-0l-3sh

Managerial, sociological, economic, and aesthetic aspects of housing and man are investigated as well as a consideration of the environment of the home as part of the community.

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CS 315 Consumer Economics and Family Finance

3c-0l-3sh

Economic, sociological, and psychological principles are applied to family money management problems. Information needed to manage finances effectively and to become a rational consumer is presented.

CS 357 Interior Design Studio

1c-3l-3sh

Prerequisite: CS217

Creative solutions to problems in interior environments emphasized. Professional interior design practices; design opportunities.

CS 399 Cooperative Education II

0sh

Prerequisite: Approval of co-op coordinator

A program designed to combine theory with practical application through job-related experiences. Consumer services majors are actively employed in business, industry, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives. The student is required to serve a minimum of two alternating work experiences.

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CS 413 Problems in Consumer Economics

3c-0l-3sh

Prerequisite: CS315 or Economics Problems of consumer-seller relationships studied with emphasis given to effects of current economic and social forces. Governmental and private protection agencies which aid the consumer are

reviewed. Individual investigations required. Fall semester only.

CS 416 Problems in Family Finance

3c-01-3sh

Prerequisite: CS315

In-depth theories and principles in personal and family finance and the rights and responsibilities of consumers are emphasized. Opportunities are provided for students to explore specific areas of interest. Spring semester only.

CS 421 Senior Seminar

2c-01-2sh

Prerequisites: Completion of 90 semester hours

Knowledge gained in major and outside concentration courses is applied to individual career goals. Students have the opportunity to pursue related areas not directly covered in previous coursework, with emphasis upon independent research, analytical thinking, and communications skills.

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CS 433 Study Tour

var-1-6sh

Prerequisite: Upper-level standing

Opportunity is provided to visit business establishments and cultural centers concerned with household equipment, furnishings, textiles, clothing, and housing in America as well as abroad. Museums, factories, designers' showrooms, distribution centers, stores, cultural events, and seminars are included. Course may be repeated for a total of 6 semester hours. (This course is cross-listed as FM433.)

CS 461 Microwave Cooking Technology

2c-21-3sh

Study of the electronic technology, selection, care, and use of the microwave oven. Basic physical and chemical concepts related to microwave cooking are included. Individual investigative research problems are required.

CS 462 Historic Interiors

3c-01-3sh

Chronological study from ancient times to the mid-19th century of the dominant influences and characteristics of historical interiors, furniture, and ornamental design. Emphasis placed upon style detail and its relationship to social, economic, political, religious, and aesthetic influence and to the contemporary scene. Paper required.

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CS 463 Modern Interiors

3c-01-3sh

Chronological study from mid-19th century to the present of the dominant influences and characteristics of the 20th-century interior, furniture, and ornamental design. Emphasis placed upon style detail and its relationship to social, economic, political, religious, and aesthetic influences and to contemporary usage. Paper required.

CS 464 Interior Planning and Drawing

1c-31-3sh

Prerequisite: CS217

Analysis and design as related to contract applications. Presentation, appropriate media, equipment, and techniques will be stressed. Freehand and mechanical methods employed to depict floor plans, elevation, and construction details with emphasis on function.

CS 465 Interior Lighting

3c-0l-3sh

Prerequisite: CS217 or equivalent

Lighting fundamentals applicable to the environmental design of residential and commercial spaces. Includes calculation methods, terminology, theory of color visibility, light source alternatives, fixture function and selection, lighting trends, and related professional organizations.

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CS 468 Interior Design Professional Practice

3c-0l-3sh

Prerequisite: Junior standing

Planning, business organization, management, contracts, procedures, and ethics for the professional interior designer.

CS 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

CS 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

Particular consumer considerations are independently investigated in the area of housing, home equipment, interior design, clothing, and textiles, or in the management of resources. Course may be repeated for a total of 3 semester hours. Students meet with a faculty member at least 5 hours per semester hour.

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CS 493 Internship

var-1-12sh

Prerequisites: Approval of instructor and department chairperson; upper-level standing

Practical experience related to the student's major area of study with objectives, supervised experience, and evaluation. Course may be repeated for a total of 12 semester hours.

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Counselor Education

Department of Counseling, Adult Education, and Student Affairs
College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CE250](#) [CE253](#) [CE281](#) [CE481](#) [CE482](#)

CE 250 Developing Interpersonal Relationship Skills

1c-0l-1sh

Teaches interpersonal relationship skills: listening, communicating, group dynamics, decision making, leadership, assertiveness, time-use management, problem solving, and conflict resolution. Restricted to residence hall counselors.

CE 253 Counseling in School Settings

3c-0l-3sh

An elective course designed to provide in-service teachers and school personnel, other than counselors, with a basic understanding of the knowledge, information, and skills appropriate to counseling with individuals and groups. Restricted to peer tutors.

CE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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CE 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

CE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Criminology

Department of Criminology
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CR101](#) [CR102](#) [CR210](#) [CR260](#) [CR270](#) [CR281](#) [CR283](#) [CR291](#) [CR295](#) [CR300](#) [CR306](#) [CR355](#) [CR357](#) [CR361](#) [CR370](#) [CR371](#) [CR383](#) [CR386](#) [CR388](#) [CR390](#) [CR391](#) [CR400](#) [CR401](#) [CR416](#) [CR451](#) [CR470](#) [CR480](#) [CR481](#) [CR482](#) [CR491](#) [CR493](#)

CR 101 Crime and Justice Systems

3c-0l-3sh

This course introduces the field of criminology through the examination of historical data, statistical information, theories of criminal causation, social control of behavior, development of laws, evaluation of criminal justice system policies, procedures, and trends. Students will learn the terminology of the field, gain an awareness of the methods of inquiry utilized in the field, and have the opportunity to examine personal attitudes and values regarding crime and responses to crime.

CR 102 Survey of Criminology

3c-0l-3sh

The purpose of this course is to provide an understanding of the discipline of criminology through an examination of its theories, basic assumptions, and definitions.

CR 210 Criminal Law

3c-0l-3sh

A study of the history and sources of criminal law coupled with an analysis of the substantive elements of specific crimes.

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CR 260 Criminal Procedure and Admissibility of Evidence

3c-0l-3sh

Law of arrest, search, and seizure, with discussion of important case law. Analysis of safeguards established for protection of individual liberties.

CR 270 Juvenile Justice System

3c-0l-3sh

A study of the agencies and processes dealing with juvenile justice in the United States.

CR 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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CR 283 Police Patrol Administration

3c-01-3sh

The study of the role and characteristics of the police patrol function. Special emphasis is given to understanding how patrol relates to other police functions and its effect on crime.

CR 291 Theory and Techniques of Interviewing

3c-01-3sh

Consideration of the theory, nature, methods, and principles of interviewing.

CR 295 Criminal Investigation

3c-01-3sh

The study of logical and scientific principles necessary for the detection and investigation analysis of criminal activities. Theories of information, interrogation, observation and interrogation, and observation and ethics are among the topics to be discussed.

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CR 300 Theory of Complex Criminal Justice Organizations

3c-01-3sh

Prerequisite: CR102 or permission of instructor

Study of the evolution and theories of organizational alternatives and their application to the administration of justice.

CR 306 Criminological Research Methods

3c-01-3sh

Prerequisite: CR102 or permission of instructor

An introduction to the basic criminological research methods designed to prepare the student to understand and participate in quantitative and qualitative research.

CR 355 Crime in the Workplace

3c-01-3sh

Study of the theoretical and legal basis of crime in the workplace.

CR 357 Law, Social Control, and Society

3c-01-3sh

The evolution and development of the modern legal system. Topics include civil, criminal, and administration law, the legal profession, legal systems in American society, and the law as one of many instruments of social control and social change.

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CR 361 Juvenile Law

3c-01-3sh

An analysis of pertinent juvenile law and procedure involving case study methods.

CR 370 Correctional Institutions

3c-01-3sh

An examination of the organization and function of correctional institutions. Emphasis is placed on various social processes and problems associated with incarceration.

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CR 371 Community-Based Corrections

3c-01-3sh

A survey of noninstitutional programs, focusing on alternatives to incarceration in community settings. Programs reviewed include prerelease, probation, parole, halfway houses, and restitution-based programs.

CR 383 Police Administration

3c-01-3sh

A study of police management, structure, and operations and their roles in the quality of services delivered. The relationship between police administration and its social environment will be examined.

CR 386 Correctional Administration

3c-01-3sh

A study of correctional management, structures, and operations and their roles in the quality of services delivered. The relationship between correctional administration and its social environment.

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CR 388 Court Administration

3c-01-3sh

A study of court responsibility within the criminal and civil justice systems; jurisdictions, policies, and management procedures in court administration.

CR 390 Women and Crime

3c-01-3sh

A study of the nature and extent of women's crime, theories of female criminality, processing of women offenders through the criminal justice system, the response of police and court officials to women as victims of crime, and opportunities for women as employees in criminal justice agencies.

CR 391 Substance Use and Abuse in Criminal Justice

3c-01-3sh

Study of substance use and abuse confronting American society. Alcohol and drug use and abuse education, philosophy, physiological effects, and social aspects will be examined in terms of control measures and public safety.

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CR 400 Theoretical Criminology

3c-01-3sh

A review and critical analysis of the major criminological theories beginning with the Classical School; psychological, sociological, economic, biological, and political theories of crime and its causes will be included.

CR 401 Contemporary Issues in Criminology

3c-01-3sh

Examination of the nature and extent of crime in modern Western society. Emphasis will be placed on issues selected

from, but not limited to, emerging patterns of violence, organized crime, white collar crime, victimless crime, corruption, and those crime control strategies deemed appropriate in a democracy.

CR 416 Criminal Justice Personnel and Supervision

3c-0l-3sh

Study of public personnel systems with specific application to criminal justice agencies. The role and function of supervision as a concept of a comprehensive personnel system as well as the relationship between agency personnel and the impact on crime will be examined.

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CR 451 Etiology of Delinquent Behavior

3c-0l-3sh

An analysis of the prevalent theories of delinquency causation with a view toward developing prevention, control, and treatment approaches.

CR 470 Comparative Study of Justice

3c-0l-3sh

Comparison of American systems of administration of justice with those of other nations.

CR 480 Seminar in Criminology - The Administration of Justice

3c-0l-3sh

A study of selected topics in criminology—the administration of justice. May be taken more than once for a maximum of 6 semester hours. Not for credit after prior CR480: Seminar in the Administration of Justice.

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CR 481 Special Topics in Criminology

var-1-3sh

Prerequisite: Department consent

A seminar providing study of selected topics not emphasized in other courses. May be taken more than once to a maximum 6 semester hours.

CR 482 Independent Study in Criminology

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

CR 491 Individual and Group Treatment Modalities

3c-0l-3sh

A study of the therapeutic techniques, process, and application used in various criminal justice environments.

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CR 493 Internship

var-3-12sh

A structured field placement designed to broaden the student's educational experience through observation and participation in work assignments in government or private sectors. Six semester hours of credit can be applied to the major requirements.

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Critical Languages

College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CL101-120](#) [CL151-170](#) [CL201-220](#) [CL251-270](#)

Critical Languages are offered in four levels. See program description in the opening section of the College of Humanities and Social Sciences. Specific languages are offered as available.

CL 101 - 120 Critical Languages I

3c-0l-3sh

Basic vocabulary and pronunciation in the target language. Oral/aural skills are stressed.

CL101	Arabic I
CL102	Chinese I
CL103	Dutch I
CL104	Finnish I
CL105	Hindi I
CL106	Hungarian I
CL107	Italian I
CL108	Japanese I
CL109	Korean I
CL110	Modern Greek I
CL111	Portuguese I
CL112	Russian I
CL113	Swedish I

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CL 151 - 170 Critical Languages II

3c-0l-3sh

Prerequisite: Level I or acceptable equivalent

A continuation of the first-semester course. Depending on the language being studied, reading and writing may be introduced at this level.

CL151	Arabic II
CL152	Chinese II
CL153	Dutch II

CL154	Finnish II
CL155	Hindi II
CL156	Hungarian II
CL157	Italian II
CL158	Japanese II
CL159	Korean II
CL160	Modern Greek II
CL161	Portuguese II
CL162	Russian II
CL163	Swedish II

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CL 201 - 220 Critical Languages III

3c-0l-3sh

Prerequisite: Level II or acceptable equivalent

At this first intermediate level, students will begin to develop a degree of oral proficiency that will vary with the language studied. Reading and writing will be studied in all languages by this level.

CL201	Arabic III
CL202	Chinese III
CL203	Dutch III
CL204	Finnish III
CL205	Hindi III
CL206	Hungarian III
CL207	Italian III
CL208	Japanese III
CL209	Korean III
CL210	Modern Greek III
CL211	Portuguese III
CL212	Russian III
CL213	Swedish III

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CL 251 - 270 Critical Languages IV

3c-0l-3sh

Prerequisite: Level III or acceptable equivalent

By the end of this course the student should be able to communicate in simple terms with an educated native speaker on a topic with which the student is familiar. Ability in reading and writing will vary with language.

CL251	Arabic IV
CL252	Chinese IV
CL253	Dutch IV

CL254	Finnish IV
CL255	Hindi IV
CL256	Hungarian IV
CL257	Italian IV
CL258	Japanese IV
CL259	Korean IV
CL260	Modern Greek IV
CL261	Portuguese IV
CL262	Russian IV
CL263	Swedish IV

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Distributive Education

Department of Office Systems and Business Education Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[DE281](#) [DE331](#) [DE332](#) [DE333](#) [DE413](#) [DE481](#) [DE482](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

DE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

DE 331 Modern Merchandising

3c-0l-3sh

Techniques for planning and controlling inventory, analyzing sales, working with modern systems for handling cash, and using color, line, and design. Practice in preparing merchandise display units.

DE 332 Retail Management

3c-0l-3sh

Prerequisite: DE331 or 333

Study of structure and changing environment of retailing; special emphasis on merchandise management, organization, sales promotions, services, and control.

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DE 333 Principles of Selling

3c-0l-3sh

Covers field of selling, preparing to sell, the selling process, and an introduction to sales management. Sales demonstrations incorporating audiovisual aids are a part of the course.

DE 413 Methods and Evaluation in Distributive Education II

3c-0l-3sh

Prerequisites: BE111, MK320, DE333, and EP202

Includes two sections of special methods and evaluation in this field. Objectives are to acquaint students with the basic principles of group and individual instruction in various subject matter areas, as well as methods of presentation. Unit plans, lesson plans, demonstrations, and evaluations will be prepared. Students select sections needed for certification.

DE 481 Special Topics

3c-01-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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DE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Early Childhood Education

Professional Studies in Education College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EE200](#) [EE220](#) [EE281](#) [EE310](#) [EE311](#) [EE312](#) [EE315](#) [EE451](#) [EE481](#) [EE482](#)

Note: Courses in Early Childhood Education are restricted to majors with a 2.5 average, except by department permission.

EE 200 Introduction to Early Childhood Education

3c-0l-3sh

Introductory course for prospective teachers of young children. Provides students with the opportunity to gain knowledge of historical, sociological, and political aspects of early childhood education. Emphasis on systematically observing, recording, and evaluating children's behavior in classrooms. (Formerly EL353: Preschool Education)

EE 220 Language Development and Children's Literature

3c-0l-3sh

Includes the study of children's language acquisition and children's literature within the context of a developmentally appropriate language arts curriculum, preschool through the primary grades. Strategies for developing children's linguistic competence and integrating literature throughout the early childhood program will be emphasized. Observations, interviews, and teaching experiences are an integral part of the course. (This course is offered as a writing intensive course).

EE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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EE 310 Integrated Curriculum I

3c-0l-3sh

Examines the sequence of cognitive development in children and the implications for instructional programs. Stages of cognitive understanding will be applied to the basic components of numerical concepts and science concepts. Classroom management strategies that can be utilized in varied environments will be stressed.

EE 311 Integrated Curriculum II

3c-0l-3sh

Enables students to realize the importance and relevance of content area subjects as related to the early childhood

years. Planning for teaching with specific emphasis on methods and materials for social and environmental living is introduced. The integration of music and art is emphasized. Values systems and self-esteem are integral to social living.

EE 312 Aesthetic Experiences for Young Children

3c-0l-3sh

An interdisciplinary approach to different forms of creative expression in young children. Art, music, and movement will be analyzed as aesthetic elements in a comprehensive early childhood curriculum. Development of creative potential in both teachers and children will be promoted as a means of enhancing the artist's experiences. Students will expand their use of the arts to enhance the self-esteem and self-worth of the children.

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EE 315 Development and Learning Through Play

3c-0l-3sh

Provides early childhood educators with the knowledge and skills necessary to promote and guide children's play behavior as the child's basic learning mechanism. Emphasis on definitions, theories, and stages of play within the context of social, emotional, physical, and intellectual growth for children aged 0-8 years. Students will observe children at play, design specific learning activities that utilize a play/games format, and direct educational experiences during the supervised field component. (Previous title: Play as Cognitive and Affective Development)

EE 451 Teaching Primary Reading

3c-0l-3sh

A methods course designed to assist students in developing the reading abilities of young children. Deals with instructional issues related to teaching reading and introduces students to varying reading and pre-reading processes which are effective with young children. Also emphasizes diagnostic and assessment strategies for teaching reading.

EE 481 Special Topics

var-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
A course/seminar on topics in education appropriate for the Early Childhood Education setting.

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EE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Economics

Department of Economics
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EC101](#) [EC121](#) [EC122](#) [EC241](#) [EC281](#) [EC283](#) [EC325](#) [EC326](#) [EC330](#) [EC331](#) [EC332](#) [EC333](#) [EC334](#) [EC335](#) [EC336](#)
[EC339](#) [EC343](#) [EC345](#) [EC346](#) [EC350](#) [EC351](#) [EC355](#) [EC356](#) [EC360](#) [EC371](#) [EC372](#) [EC373](#) [EC383](#) [EC421](#) [EC422](#)
[EC480](#) [EC481](#) [EC482](#) [EC493](#)

EC 101 Basic Economics

3c-0l-3sh

Scarcity, role of prices in determining production and the allocation of resources, business cycle analysis, policy options for reducing unemployment and inflation, economic role of government, international trade, and selected current economic problems are studied. For those who do not plan to take more than 3 semester hours of economics. Note: May not be taken after successful completion of or concurrent registration in any other Economics course.

EC 121 Principles of Economics I

3c-0l-3sh

Nature and methodology of economics; mixed capitalism and market economy; national income; employment theory, including economics of fiscal policy; money, banking, and Federal Reserve System; international trade and finance.

EC 122 Principles of Economics II

3c-0l-3sh

Economics of the firm; theory of consumer demand; determination of price and output in different market structures; distribution of income; economic growth.

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EC 241 Contemporary Economic Issues

3c-0l-3sh

Prerequisite: EC101 or 122

A rigorous but nontechnical analysis of a variety of economic problems and a formulation and evaluation of possible corrective policies.

EC 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

EC 283 Environmental Economics

3c-0l-3sh

Prerequisite: EC101 or 122

Examination of economic costs and benefits of environmental control and modification. Techniques of economic analysis are used to understand economic aspects of environmental problems and contribute toward their solution.

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EC 325 Monetary Economics I

3c-0l-3sh

Prerequisites: EC121, 122

Organization, operation, and economic significance of U.S. monetary institutions; commercial banks and Federal Reserve System; survey of monetary theory and policy; mechanism of international payments.

EC 326 Monetary Economics II

3c-0l-3sh

Prerequisite: EC325 or permission of the instructor

Detailed study of monetary theory; tasks of central banking; principal objectives of monetary policy; intensive study of recent monetary experience; complementary and competing aims of monetary and fiscal policy.

EC 330 Labor Economics

3c-0l-3sh

Prerequisites: EC121, 122

History, structure, and operation of trade unions and employer organizations; major federal labor legislation; collective bargaining theory; wage determination; current labor problems.

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EC 331 Economic Organization of Industry

3c-0l-3sh

Prerequisite: EC122 or permission of the instructor

Social effectiveness of industries analyzed through measures of market structure, market conduct, and market performance.

EC 332 Government and Business

3c-0l-3sh

Prerequisite: EC122 or permission of the instructor

An analysis of the antitrust laws focusing on the maintenance of competition, the prohibition of unfair business conduct, and the achievement of desirable economic performance.

EC 333 Regulation of Industry

3c-0l-3sh

Prerequisites: EC121, 122 or permission of the instructor

Examines the theory and practice of regulation, emphasizing effects of regulation on economic performance and efficiency in the U.S.

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EC 334 Economics of Corporate Decisions

3c-0l-3sh

Prerequisites: EC121, EC122, MA121 or equivalent

Applications of economic theory using algebra, elementary statistics, and calculus to solve managerial optimization problems including problems of forecasting and risk.

EC 335 Public Finance

3c-0l-3sh

Prerequisites: EC121, 122 or permission of the instructor

Taxation and expenditure theory at the federal level; federal budget and debt considerations; public sector impact upon economy.

EC 336 State and Local Finance

3c-0l-3sh

Prerequisite: EC122 or permission of the instructor

Analysis of character and impact of state and local government revenue sources, expenditures, and fiscal systems; intergovernmental fiscal relations.

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EC 339 Economic Development I

3c-0l-3sh

Prerequisites: EC121, 122

Theory of growth; theory of economic development of underdeveloped countries.

EC 343 History of the Economic Development of the United States

3c-0l-3sh

Prerequisite: EC101 or 121 or 122

Applications of economic theory and models of economic development to the main patterns of U.S. postrevolutionary growth; emphasizes the history of economic development as a laboratory for testing economic hypotheses.

EC 345 International Economics I

3c-0l-3sh

Prerequisites: EC121 and 122 or permission of the instructor

Study of the microeconomic segment of international specialization and exchange, including theories of international trade and their application to commercial policies, historical survey and examination of current problems of international trade, and the institutional setting of international trade.

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EC 346 International Economics II

3c-0l-3sh

Prerequisites: EC121 and 122 or permission of the instructor

Study of the macroeconomic segment of international specialization and exchange, including analysis of balance of payments, exchange rates, and the mechanism of international economic and monetary adjustments; international macroeconomic policy; historical survey and examination of current international financial problems; and the institutional setting of international payments.

EC 350 Comparative Economic Systems

3c-0l-3sh

Prerequisite: EC101 or 121 or 122

Evaluation of premises, practices, institutions, and performance of capitalist, socialist, and mixed economies using economic theory and measurement.

EC 351 Russian Economic Development

3c-0l-3sh

Prerequisite: EC101 or 121 or 122

Study of the theory, institutions, and performance of the Russian economy including comparison of present and past patterns of economic development.

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EC 355 Statistics for Economists

3c-0l-3sh

Introduction to economic statistics, including frequency distributions, probability, distributions of random variables, functions of random variables, and tests of economic hypotheses.

EC 356 Introduction to Econometrics

3c-0l-3sh

Prerequisites: EC355 or its equivalent or permission of the instructor

Introduction to econometrics, including linear normal regression models of two or more random variables, special econometric problems, and solutions of simultaneous equations.

EC 360 Economics of Health Services

3c-0l-3sh

Analysis of the allocation of resources in the health sector using demand and supply techniques. Pricing and output decisions by physicians, hospitals, and other health agencies will be considered along with other current policy issues.

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EC 371 Economics of Labor Legislation

3c-0l-3sh

Prerequisite: EC330 or permission of the instructor

Economic background and effects of governmental regulation of labor relations, with emphasis on a detailed examination of National Labor Relations Act as amended.

EC 372 Economics of Wages and Employment

3c-0l-3sh

Prerequisite: EC330 or permission of the instructor

Analysis of wages and employment under various market structures. Also, analysis of the impact of labor market forces on wages, prices, and distributive shares.

EC 373 Economics of Human Resources

3c-0l-3sh

Prerequisite: EC101 or 122

Inquiry into economic demographics and related factors affecting growth, structure, and distribution of an economy's labor force into different occupations.

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EC 383 Urban/Regional Economics

3c-0l-3sh

Prerequisites: EC121 and 122

Location theory, land use patterns, urban economic/regional growth change, and urban economic problems and

policies.

EC 421 Macroeconomic Analysis

3c-0l-3sh

Prerequisites: EC121, 122 or permission of the instructor

Emphasizes aggregate income levels and problems of unemployment, inflation, and growth. Covers consumption and investment theories and the role of fiscal and monetary policy.

EC 422 Microeconomic Analysis

3c-0l-3sh

Prerequisites: EC121, EC122, MA121 or equivalent

Consumer behavior, theory of the firm, theory of exchange, market structures, distribution, general equilibrium theory, welfare economics.

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EC 480 Seminar

3c-0l-3sh

Prerequisite: Permission of the instructor

Seminar in selected economic issues or problems.

EC 481 Special Topics

var-1-3sh

Prerequisite: Permission of the instructor

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

EC 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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EC 493 Internship in Economics

var-2-12sh

Prerequisite: A student must be an economics major who has completed at least 12 semester hours in economics and who has at least a 2.5 grade-point average in the major and in all coursework.

The course provides on-the-job experience in economics positions with private and governmental employers. The student is also required to complete related academic work in the form of papers and selected readings. Number of credits earned will depend upon the nature of the job and amount of time involved in internship. A maximum of six of the credits earned in this course may be counted toward the 30 semester hours in economics requirement for Economics majors.

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Education

College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[ED242](#) [ED281](#) [ED342](#) [ED408](#) [ED415](#) [ED421](#) [ED423](#) [ED431](#) [ED441](#) [ED442](#) [ED451](#) [ED452](#) [ED453](#) [ED455](#) [ED456](#)
[ED462](#) [ED481](#) [ED482](#) [ED495](#) [ED499](#)

ED 242 Pre-student Teaching Clinical Experience I

var-1sh

Prerequisite: Admission to teacher certification

Observation/participation in a basic education classroom beginning not later than the sophomore year.

ED 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

ED 342 Pre-student Teaching Clinical Experience II

var-1sh

Prerequisites: ED242 and admission to junior standing

Students work toward the development of specific competencies that relate to individual major fields of teaching.

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ED 408 Reading in the Content Areas

3c-0l-3sh

Prerequisite: EL222

Problems related to teaching students reading and study skills specifically needed in each of the subject areas at the elementary level. Content teachers learn how to develop students' competence in these skills as part of their regular classroom instruction.

ED 415 Computers in the School Curriculum

3c-0l-3sh

Prerequisite: BE/CO/IM101 or permission of the instructor

Students will use a variety of computer software including word processing, record management programs, and simulation programs. Emphasis will be on the application of computer programs within the K-12 school curriculum.

ED 421 Student Teaching

var-6sh

Prerequisite: Admission to Student Teaching

Experience in teaching at the elementary level; coordination and visitation by a university faculty member with daily supervision by a cooperating classroom teacher.

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ED 423 Professional Practicum, Including School Law

var-3sh

Series of conferences and related activities to prepare students for actual teaching experiences. Parallels student teaching experience in junior and senior years. (Elementary Education majors only)

ED 431 Teaching in Home Economics

var-6sh

Prerequisite: Admission to Student Teaching

Experience in teaching home economics at the secondary level.

ED 441 Student Teaching

var-6-12sh

Prerequisite: Admission to Student Teaching

Experience in teaching at the elementary or secondary level; coordination and visitation by a university faculty member with daily supervision by a cooperating classroom teacher.

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ED 442 School Law

1c-0l-1sh

Required of all teacher certification students. Includes overview of legal principles that apply to special areas of education. Must be taken prior to student teaching.

ED 451 Teaching Science in the Secondary School

2c-2l-3sh

Prerequisite: Admission to Student Teaching

Background to help science majors meet the problems of teaching science. Various inquiry approaches useful in meeting objectives of a contemporary science class are taught and exemplified.

ED 452 Teaching of English and Communication in the Secondary School

3c-0l-3sh

Prerequisites: EN314, 323, and 380 and admission to Student Teaching

This course is a prerequisite to student teaching in English. Introduces the student to current professional practices in the teaching of English and communications in high school.

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ED 453 Teaching of Foreign Languages in the Elementary/Secondary Schools

3c-0l-3sh

Prerequisites: Successful completion of 321-322 and 351-352 in the student's major language; passage of a language proficiency examination or permission of the instructor, and admission to Student Teaching

The student will study current theories of language acquisition and methods of language teaching for the elementary and secondary school. Through hands-on practice and peer teaching demonstrations, the student will develop techniques for teaching functional language, planning lessons, setting curricular objectives, testing language skills, and selecting/adapting materials for both elementary and secondary school classrooms. (Course taught fall semester only)

ED 455 Teaching of Social Science in Secondary Schools

3c-01-3sh

Prerequisite: Admission to Student Teaching

Study of modern methods and techniques for teaching social science and of current curricula in social science.

ED 456 Teaching Math in the Secondary Schools

3c-01-3sh

Prerequisite: Admission to Student Teaching

Study of modern methods and techniques for teaching mathematics and current curricula.

ED 462 Issues and Innovations in Education

3c-01-3sh

Study of issues and innovations which influenced education will be included in this course. Educational innovations and issues which deal with curriculum, school organization, and materials of instruction will be examined.

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ED 481 Special Topics

3c-01-3sh

Prerequisite: By permission only

Provides an opportunity for students to investigate in-depth an area of education under professional supervision.

ED 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

ED 495 International Study Tour in Education

var-3sh

Study of various peoples through their cultural settings and educational systems; on-site visitation to selected schools and other social agencies and institutions; seminars with school officials and directed readings.

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ED 499 Multicultural/Multiethnic Education

2c-01-2sh

Prerequisite: One methods course must be taken prior to, or concurrently with, ED499

Provides students with an understanding and appreciation of cultural diversity in the United States. Students will gain the ability to locate and develop curricular materials appropriate to this country's diversity.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Education of Exceptional Persons

Department of Special Education and Clinical Services
College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EX111](#) [EX112](#) [EX221](#) [EX222](#) [EX231](#) [EX300](#) [EX301](#) [EX321](#) [EX340](#) [EX415](#) [EX416](#) [EX417](#) [EX418](#) [EX419](#) [EX425](#)
[EX435](#) [EX440](#) [EX480](#) [EX481](#)

EX 111 Introduction to Exceptional Persons

3c-0l-3sh

Prerequisite: For department majors and official incoming transfers only

Surveys characteristics, needs, problems, and behavior patterns of any person who deviates sufficiently from "normal" to be considered exceptional. Consideration to those who fall intellectually both above and below average and to those who are handicapped visually, acoustically, behaviorally, orthopedically, neurologically, or in respect to speech patterns. (Offered as EX120 prior to 1993-94)

EX 112 Typical and Atypical Growth and Development

3c-0l-3sh

Prerequisites: EX111, PC101

Presents foundations of human growth from conception, including basic embryogenesis, up to but not including adolescence. Considers the biological, cultural, educational, and parenting influences that shape the child, as well as selective examples of normal and deviant physical and intellectual development. (Offered as EX220 prior to 1993-94)

EX 221 Methods of Teaching Mathematics to Persons with Disabilities

3c-0l-3sh

Prerequisites: MA151, EX111

Emphasizes recent developments in elementary curriculum and instructional techniques for developing concepts; implications of recent resource developments and materials helpful to the prospective special education teacher. Emphasis is also placed on methods of helping children learn mathematical concepts through physical activity and on ways to adapt regular classroom materials to meet needs and abilities of slow and disabled learners. (Offered as EX240 Teaching Mathematics for the Mentally and/or Physically Handicapped prior to 1993-94)

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EX 222 Methods of Teaching Reading to Persons with Disabilities

3c-0l-3sh

Prerequisite: Sophomore status or above

Presents basic concepts of developmental reading instruction and systematic coverage of the methods of teaching reading from readiness stages through eighth grade. Diagnostic-prescriptive techniques are included. (Offered as EX251 Methods of Teaching Reading prior to 1993-94)

EX 231 Methods of Teaching Content Area Subjects to Persons with Disabilities

3c-0l-3sh

Prerequisites: EX111, GPA 2.5

Presents methods for teaching science and social studies to the mentally and/or physically handicapped. Scope and sequence of content, as well as evaluative techniques for each content area, are studied. Integration of other content areas and skill areas is stressed. Also stresses teaching in both resource room and less restrictive environments. (Offered as EX322 prior to Spring, 1998)

EX 300 Education of the Exceptional in the Regular Classroom

3c-0l-3sh

Prerequisites: For Early Childhood and Elementary Education Majors only; to be taken only during the semester of the designated methods courses

Examines the issues associated with education of students with diverse learning needs, particularly those with disabilities or who are at risk for school failure. There is an emphasis on special education, particularly the legal rights of students with exceptionalities and their parents, and the responsibilities educators in addressing those rights. The course examines the differential impact of student characteristics on elementary-level school performance and instructional methods proven to be effective in educating students with disabilities and learning style differences.

EX 301 Education of Students with Disabilities in Inclusive Secondary Settings

2c-0l-2sh

Prerequisite: For Secondary Education Majors and others who will be certified to teach content from K-12

Recommendation: It is strongly recommended that students take this course in the same semester of the designated methods course. This course examines the issues associated with education of students with diverse learning needs, particularly those with disabilities or who are at risk for school failure. There is an emphasis on special education, particularly the legal rights of students with exceptionalities and their parents, and the responsibilities of educators in addressing those rights. The course examines the differential impact of student characteristics on secondary-level school performance and instructional methods proven to be effective in educating students with disabilities and learning style differences.

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EX 321 Methods of Teaching Language Arts to Persons with Disabilities

3c-0l-3sh

Prerequisites: EX111, EX222, and SH254, GPA 2.5

Review of typical and atypical characteristics of the handicapped in relationship to the language arts. Deals with preparation and execution of units of instruction in language arts for mentally and/or physically handicapped persons. Diagnostic and prescriptive approaches are included; integration of language arts with a highlight on reading is stressed. (Offered as EX353 Reading and Other Language Arts for the Mentally and/or Physically Handicapped prior to 1993-94)

EX 340 Introduction to Behavior Management in Special Education

3c-0l-3sh

Prerequisites: EX111, EX112, EP202, GPA 2.5

An overview of systematic behavioral change techniques for use with students in a variety of special education settings including integrated, resource, self-contained, special school, and residential. Emphasizes a case analysis approach to creating and evaluating behavioral changes for students with mild to severe disabilities.

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EX 415 Preschool Education for Children with Disabilities

3c-0l-3sh

Prerequisite: Departmental permission, GPA 2.5

Provides information on assessment, intervention strategies, curriculum, and prescriptive planning for preschool

children with disabilities. Serves as a course for departmental majors who are specifically interested in early childhood education, as an elective for other interested students in related fields, and as a priority course for Early Childhood Education majors. (Formerly EX464 Preschool Education of the Handicapped)

EX 416 Education of Persons with Emotional or Behavioral Disorders

3c-01-3sh

Prerequisite: Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of emotional and behavioral disorders, definition and identification of the population, and educational approaches. Reviews research in the field, including current issues, trends, practices, and services. (Formerly EX341 The Socially and Emotional Maladjusted)

EX 417 Education of Persons with Mental Retardation or Developmental Disabilities

3c-01-3sh

Prerequisite: Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of mental retardation and developmental disabilities, including autism. Definition, identification, and educational approaches are discussed. Reviews research in the field, including current issues, trends, practices, and services. (Formerly EX457 Severe and Profound Retardation and Multiple Disabilities)

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EX 418 Education of Persons with Physical or Multiple Disabilities

3c-01-3sh

Prerequisite: Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of a wide and diverse range of physical/multiple disabilities, the definition and identification of the population, and educational approaches. Reviews research in the field, including current issues, trends, practices, and services. (Formerly EX430 Physical Disabilities and Psychological Handicaps)

EX 419 Education of Persons with Brain Injuries or Learning Disabilities

3c-01-3sh

Prerequisite: Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of neurological and learning disabilities, definition and identification of the population, and educational approaches. Reviews research in the field, including current issues, trends, practices, and services. (Formerly EX454 The Brain Injured and the Learning Disabled)

EX 425 Methods and Curriculum (Mild-Moderate Disabilities)

3c-01-3sh

Prerequisites: EX221, 222, 321, 322, 340, GPA 2.5

Provides in-depth examination of assessment methods, strategies, and curricula. Emphasizes assessment methods and strategies used in a variety of service models that serve elementary- and secondary-level students with learning disabilities, behavioral disorders, mild mental retardation, and high-function autism. (Formerly EX450 Methods and Curriculum Planning for Mildly and Moderately Handicapped)

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EX 435 Methods and Curriculum (Severe-Profound Disabilities)

3c-01-3sh

Prerequisites: EX221, 222, 322, 321, 340, GPA 2.5

Emphasizes methods designed to facilitate the development of an integrated, functional, and community-based curriculum that will prepare students for participation in a wide variety of postschool environments.

EX 440 Ethical and Professional Behavior

1c-0l-1sh

Prerequisites: Departmental permission, GPA 2.5

Emphasis on ethical and professional behavior for student teachers and professional employees. Possibilities for and methods of initiating and profiting from postbaccalaureate study are indicated. Student teachers are required to complete and present a curriculum book regarding each student-teaching experience. (Offered as EX490 prior to 1993-94)

EX 480 Seminar in Special Education

var-1-3sh

Prerequisite: Departmental permission

Interested students may use this course for the pursuit of knowledge regarding specific concerns of the exceptional which are not ordinarily considered in such detail during regular classroom instruction. Students wishing to enroll are expected to submit a written proposal regarding their desire for study at the time permission for enrollment is sought. With permission, the course may be repeated for credit. (Previous title: Selected Problems)

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EX 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Education of Persons with Hearing Loss

Department of Special Education and Clinical Services
College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EH114](#) [EH115](#) [EH244](#) [EH281](#) [EH307](#) [EH308](#) [EH329](#) [EH330](#) [EH331](#) [EH351](#) [EH360](#) [EH365](#) [EH481](#) [EH482](#)

EH 114 Introduction to Persons with Hearing Loss

3c-0l-3sh

Prerequisites: Advisor permission, EH majors only

Deals with the different approaches used in teaching the hearing impaired—manual language, oral language, and total communication. The historical background of each approach is presented with its strengths and weaknesses. Criteria for the use of each approach established in consideration of degree of loss exhibited by the pupil, the age of onset, and the social and psychological implications. (Offered as Introduction to Hearing Impaired prior to 1994)

EH 115 Introduction to Sign Language

1c-0l-1sh

Development of manual dexterity and fluency using fingerspelling. Acquisition of basic sign language vocabulary. Practice in acquiring general information from a signed message and conversing informally on commonly used topics.

EH 244 Intermediate Sign Language

1c-0l-1sh

Prerequisite: EH115

Emphasis on comprehension of signed information and on developing fluency in conveying a message in both signed English and American Sign Language. Modification of signs and individualization of techniques for instruction/communication with learning-impaired or multihandicapped deaf learners.

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EH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

EH 307 Speech for Persons with Hearing Loss

3c-0l-3sh

Prerequisites: EH114, SH242, 2.5 QPA

Techniques for developing, diagnosing, analyzing, and correcting the speech and voice problems of hearing-impaired individuals. Lecture, demonstration, and special projects. (Offered as Speech for the Hearing Impaired prior to 1994)

EH 308 Language for Persons with Hearing Loss

3c-0l-3sh

Prerequisites: EH114, SH334, 2.5 QPA

Development and remediation of language of the hearing impaired. Language sampling and diagnostics, sentence patterning, and analytic vs. natural teaching methods. Structuring a communicative environment. (Offered as Language for the Hearing Impaired prior to 1994)

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EH 329 Hearing Practicum I

var-1sh

Prerequisites: EH114, 115, 2.5 QPA

Provides the student with actual contact with individuals with hearing loss. Practica will be set up in appropriate school programs and/or clinics for the hearing impaired, in hearing itinerant programs, or in clinical settings where hearing-impaired individuals are receiving therapy or are being tested. Techniques of observing and evaluating behavior are presented initially to prepare the student to profit maximally from the observation experiences. Written reports of the practica are submitted and discussed, and each student is encouraged to gain experience in as many different settings as available.

EH 330 Hearing Practicum II

var-1sh

Prerequisites: EH329, 2.5 QPA

Provides students with actual contact with individuals with hearing loss. Practica will be set up in appropriate school programs and/or clinics for the hearing impaired, in hearing itinerant programs, or in clinical settings where hearing-impaired individuals are receiving therapy or are being tested. Techniques of observing and evaluating behavior are presented initially to prepare the student to profit maximally from the observation experiences. Written reports of the practica are submitted and discussed, and each student is encouraged to gain experience in as many different settings as available. This is a continuation of EH329: Hearing Practicum I and includes support and supervision of students in EH329.

EH 331 Advanced Sign Language

1c-0l-1sh

Prerequisites: EH115, 244, 2.5 QPA

Studies the evolution of signs; dialectical sign systems. Analysis and comparison of the linguistic similarities/differences of various sign languages. Direct translation of written or spoken information on specific topics using American Sign Language or Signed English. Practice using conversation on both a social and academic level.

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EH 351 Teaching Reading to Persons with Hearing Loss

3c-0l-3sh

Prerequisite: EH308, 2.5 QPA

Presents basic concepts of developmental reading instruction and systematic coverage of the methods of teaching reading to students with hearing loss from readiness stages through upper school.

EH 360 General Methodology for Education of Persons with Hearing Loss

3c-0l-3sh

Prerequisites: EH114, 307, 308, 2.5 QPA

Provides a systematic coverage of the basic procedures for teaching curriculum subjects. Included are adaptive methods of instruction for teaching mathematics; science as it relates to the child and the curriculum; content, objectives, and resource materials for social studies; creative experiences in the field of language arts, rhythmic, and

physical education and health. (Offered as General Methodology for Education of Hearing Impaired prior to 1994)

EH 365 Parent-Preschool Programs for Persons with Hearing Loss

3c-0l-3sh

Prerequisites: EH 307, EH308, EH114, EX112, SH334, 2.5 QPA

Developing home/clinic programs for parents and hearing-impaired infants (0-3 years). Teaching speech, language, speechreading, use of residual hearing, and developing readiness skills at preschool level. (Offered as Parent-Preschool Programs for the Hearing Impaired prior to 1994)

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EH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

EH 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Educational and School Psychology

Department of Educational and School Psychology
College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EP202](#) [EP281](#) [EP373](#) [EP376](#) [EP377](#) [EP378](#) [EP383](#) [EP384](#) [EP481](#) [EP482](#) [EP499](#)

EP 202 Educational Psychology

3c-0l-3sh

Prerequisites: PC101, admission to sophomore standing in teacher certification or permission

Designed to promote a better understanding of the principles of psychology governing human behavior, with particular emphasis on their relation to learner, learning process, and learning situation in an educational environment. (Offered as EP302 prior to 1992-93)

EP 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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EP 373 Psychology of Adolescent Education

3c-0l-3sh

Prerequisite: EP202

Study of significant characteristics, behavior, and educational and social problems of adolescents.

EP 376 Behavior Problems

3c-0l-3sh

Prerequisite: EP202

Examination of emotional and social aspects of behavior problems encountered in classroom situations and potential remedial techniques.

EP 377 Educational Tests and Measurements

3c-0l-3sh

Prerequisites: PC101, admission to junior standing in teacher certification or permission

Designed to acquaint students with major methods and techniques of evaluation used to assess and report growth, development, and academic achievement of individuals in an educational environment. Includes interpretation of standardized test information.

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EP 378 Learning

3c-01-3sh

Prerequisite: EP202

Explores learning theories and educational application in the classroom.

EP 481 Special Topics in Educational Psychology

var-1-3sh

Prerequisite: Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

EP 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

EP 499 Independent Study

var-1-3sh

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Elementary Education

Professional Studies in Education College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EL211](#) [EL213](#) [EL215](#) [EL221](#) [EL222](#) [EL257](#) [EL281](#) [EL312](#) [EL313](#) [EL314](#) [EL322](#) [EL351](#) [EL357](#) [EL411](#) [EL422](#) [EL425](#)
[EL481](#) [EL482](#)

Note: Courses in Elementary Education are restricted to majors with a 2.5 average, except by department permission.

EL 211 Music for the Elementary Grades

2c-0l-2sh

Geared for elementary education students. Includes basic ideas for understanding, development, and confidence for future classroom teachers and their pupils in areas of music education.

EL 213 Art for the Elementary Grades

2c-0l-2sh

The creative use of art materials and an understanding of development of capacities of children through art.

EL 215 Child Development

3c-0l-3sh

Survey of human development, from conception to adolescence, in terms of basic scientific data. Development, growth, and behavior are studied and their implications for home, school, and community are considered.

EL 221 Children's Literature

3c-0l-3sh

Acquisition of a wide acquaintance with children's literature, old and new. Poetry selections, annotated stories, and bibliographies will be assembled. Ways and means to develop, stimulate, and guide children's reading of literature presented. Principles and techniques of successful storytelling are studied and practiced.

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EL 222 Teaching of Reading I

3c-0l-3sh

Systematic coverage of the teaching of reading, including methods, techniques, and materials. First of a two-course sequence.

EL 257 Pedagogy I

3c-0l-3sh

Prerequisite: Junior status

Competencies specific to the science of teaching will be introduced in this course. Students will become familiar with

the fundamentals of teaching across all content area subject matter at the elementary level. Areas that will be explored include models of teaching, including lesson and unit planning, and creating a classroom environment that is conducive to learning. (Offered as EL356 prior to 1997-98)

EL 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

EL 312 Teaching of Elementary Science

2c-01-2sh

Emphasis placed upon science as it relates to child and curriculum, planning for teaching science, and recent innovations in science teaching. Course offered on the junior block only.

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EL 313 Teaching Mathematics in the Elementary School

3c-01-3sh

Prerequisites: MA151, 152

Recent developments in curriculum and methods of instruction of contemporary elementary school mathematics programs. Students will become acquainted with books, materials, and other resources helpful to prospective teachers. Includes observations of master teachers.

EL 314 Teaching of Health and Physical Education

2c-01-2sh

Games, stunts, rhythms, relays, tumbling, dances, and skills suitable for the elementary school child. Teaching of health in elementary school is emphasized, including methods, materials, and lesson planning.

EL322 Teaching of Reading II

3c-01-3sh

Second course of a two-course sequence. Systematic coverage of teaching of reading, including methods, materials, and lesson planning.

EL 351 Creative Activities in the Elementary School

3c-01-3sh

Provides students with a wide range of creative experiences in fields of art, crafts, music, rhythmic, dramatics, and games in elementary school. Stress is placed upon need to help children in developing their capacities for creative expression in these areas.

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EL 357 Pedagogy II

3c-01-3sh

Prerequisite: Junior status

Principles based on classroom experience. Instruction will include classroom management skills, integration of computers in the elementary curriculum, contemporary issues in education, the role of research in elementary classroom teaching, and teacher professionalism during and after field experiences. (This course is writing intensive.)

EL 411 Teaching of Social Studies

3c-01-3sh

Overview of social studies in elementary school. Includes study of objectives, trends, areas of content, patterns and principles of organization, and techniques of teaching. Variety of learning experiences and materials used and evaluated.

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EL 422 Diagnostic and Remedial Reading

3c-01-3sh

Prerequisite: EL222

Causes of reading disability; methods of diagnosis; procedures and materials for remedial work, group and individual.

EL 425 Language Arts Across the Curriculum

3c-01-3sh

Prerequisite: EL222

Places emphasis on the view that the art of communication is an interrelated process and the task of classroom teachers is not only integrating the language arts among themselves but also integrating them throughout the entire curriculum. Techniques for teaching oral and written communication, spelling, handwriting, vocabulary development, listening, and linguistics will be presented. Special emphasis given to recent trends and research. (Replaces EL413 Teaching Language Arts effective Summer, 1992) This course is offered as a writing-intensive course.

EL 481 Special Topics

var-3sh

Prerequisite: Approval of instructor and department

A course/seminar on topics in education appropriate for the Elementary Education setting.

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EL 482 Independent Study

var-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. (Offered as EL481 prior to 1993-94)

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

English

Department of English College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EN100](#) [EN101](#) [EN121](#) [EN122](#) [EN150](#) [EN202](#) [EN208](#) [EN210](#) [EN211](#) [EN212](#) [EN213](#) [EN214](#) [EN215](#) [EN216](#) [EN217](#) [EN220](#) [EN221](#) [EN225](#) [EN281](#) [EN301](#) [EN302](#) [EN303](#) [EN304](#) [EN305](#) [EN306](#) [EN307](#) [EN310](#) [EN311](#) [EN312](#) [EN313](#) [EN314](#) [EN315](#) [EN316](#) [EN317](#) [EN318](#) [EN319](#) [EN320](#) [EN322](#) [EN323](#) [EN324](#) [EN325](#) [EN326](#) [EN329](#) [EN330](#) [EN332](#) [EN333](#) [EN334](#) [EN335](#) [EN336](#) [EN337](#) [EN338](#) [EN344](#) [EN348](#) [EN349](#) [EN354](#) [EN357](#) [EN385](#) [EN386](#) [EN387](#) [EN390](#) [EN391](#) [EN393](#) [EN394](#) [EN395](#) [EN396](#) [EN401](#) [EN420](#) [EN422](#) [EN430](#) [EN432](#) [EN434](#) [EN436](#) [EN460](#) [EN461](#) [EN462](#) [EN481](#) [EN482](#) [EN493](#)

Note: The English Department has undergone extensive course revision which are pending Council of Trustees' approval.

EN 100 Basic Writing

3c-0l-3sh

Designed to develop the basic English skills necessary for clear and effective communication. Reserved for selected students. This course does not meet General Education English or Liberal Studies writing requirements.

EN 101 College Writing

3c-var-4sh

Prerequisite: EN100, where required by placement testing

Normally to be taken the first semester at IUP. Courses use readings in the nature and history of language, semantic and linguistic analysis, and problems in rhetoric and other approaches to composition. Seven theme-length expository papers (or the equivalent) are written, in addition to shorter exercises and a written final examination.

EN 121 Humanities Literature

3c-0l-3sh

Prerequisite: EN101

Introduces students to literature of various genres through a careful analysis of poetry, fiction, and drama. Includes literature of various time periods, nationalities, and minorities.

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EN 122 Introduction to Literary Analysis

3c-0l-3sh

Prerequisite: EN101

Acquaints students with the literary genres (especially fiction, poetry, and drama) by means of examples of each and provides them with some of the various critical approaches to the interpretation of literature so that they may gain the ability to apply them. At the conclusion of the course, students are expected to be able to read literature perceptively and to write critical papers about it. (Offered as EN210 prior to Spring, 1998)

EN 150 English for Foreign Students

3c-01-3sh

Prerequisite: EN101

Acquaints students with the literary genres (especially fiction, poetry, and drama) by means of examples of each and provides them with some of the various critical approaches to the interpretation of literature so that they may gain the ability to apply them. At the conclusion of the course, students are expected to be able to read literature perceptively and to write critical papers about it. (Offered as EN210 prior to Spring, 1998)

EN 202 Research Writing

3c-01-3sh

Prerequisites: EN101, sophomore standing

Teaches students to read, analyze, and evaluate nonfiction sources and to present the results of their analysis in clear, organized, carefully documented research papers. The focus of reading and research in each section will be determined by the instructor.

EN 208 The Art of the Film

3c-01-3sh

Concentrates on the film as an artistic medium. Eight to twelve motion pictures are shown during semester and are analyzed in class discussions.

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EN 210 British Literature to 1660

3c-01-3sh

Prerequisites: EN101, 122, or permission

Surveys British literature from its beginnings to about 1660, acquainting students with the experience of reading many of the primary materials (whole works whenever possible or full, free-standing parts) and provides them with background information concerning the development and flowering of the various genres, the dominant ideas of each period, and the social and cultural context of the separate works. (Offered as EN210 prior to Spring, 1998)

EN 211 British Literature 1660-1900

3c-01-3sh

Prerequisites: EN101, 122, or permission

Surveys British literature from about 1660 to the beginning of the twentieth century, acquainting students with the experience of reading many of the primary materials (whole works whenever possible or full, free-standing parts) and providing them with background information concerning the development and flowering of the various genres, the dominant ideas of each period, and the social and cultural context of the separate work. (Offered as EN212 English Literature prior to Spring, 1998)

EN 212 American Literature: Beginnings to 1900

3c-01-3sh

Prerequisites: EN101, 122, or permission

Provides an understanding of American literature from its beginning to about 1900. The course will concentrate primarily upon a relatively small number of major works, each of which will help to illustrate the "spirit of the age" it represents. (Offered as EN213 American Literature: Beginnings to the Present prior to Spring, 1998)

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EN 213 British and American Literature Since 1900

3c-01-3sh

Prerequisites: EN101, 122, or permission

A survey of major authors and works in British and American literature since 1900. Begins with the shift from Victorianism and late nineteenth-century literature into modernism, as exemplified by writers such as Woolf, Hemingway, and O'Neill, and continues with postmodernism and contemporary literature.

EN 214 The Novel

3c-01-3sh

Prerequisites: EN101, 122, or permission

This course surveys the development of the novel from Cervantes' Don Quixote to the present with emphasis on major writers and forms in English. Includes consideration of teaching the novel.

EN 215 Poetry

3c-01-3sh

Prerequisites: EN101, 122, or permission

A study in appreciation of poetry, with special attention to the technique of the poet and structure of poetry. Includes consideration of teaching poetry.

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EN 216 Short Fiction

3c-01-3sh

Prerequisites: EN101, 122, or permission

A study of the development of the short story from the middle of the nineteenth century to the present with attention to form, structure, and types of the story. Includes consideration of teaching short fiction.

EN 217 Drama

3c-01-3sh

Prerequisites: EN101, 122, or permission

A study of selected plays from various periods in an attempt to understand the function of drama. Includes consideration of teaching drama.

EN 220 Advanced Composition I

3c-01-3sh

Prerequisite: EN202

Primarily seeks to improve writing style, particularly in the more utilitarian forms, such as magazine article and personal essay.

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EN 221 Creative Writing

3c-01-3sh

Prerequisite: EN202

This is a seminar course in which students are expected to produce a substantial body of written work in one or more of the creative genres, the particular kind of writing chosen with regard to the special interests and abilities of each student.

EN 225 Introduction to Literature by Women

3c-01-3sh

Prerequisites: EN121 or 122 and 202

Major trends and motifs across genres (fiction, nonfiction, poetry, autobiography) which reflect themes and subjects of continuing interest to women writers. The intersection of genre with race, ethnicity, and social class will be of

particular significance. (Offered as EN384 prior to Spring, 1998)

EN 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

EN 301 British Medieval Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

This course examines particular literary traditions in England from the eleventh to the fifteenth centuries, excluding Chaucer. The purpose will be to acquaint students with the diversity of materials, ranging from prose to verse, oral to written, and serious to comic. Most texts will be taught in the original Middle English, accompanied by side glosses. Translations will be used where appropriate. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 302 Renaissance Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines major works and genres in Elizabethan literature such as pastoral and tragedy and key fiction writers, dramatists, and poets during 1558-1603. Rather than survey the period comprehensively, the purpose here is to focus closely on a specific literary period and on the writers of this period as selected by the instructor. (Offered as EN361 The Renaissance prior to Spring, 1998)

EN 303 British Enlightenment Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

British Enlightenment Literature refers to the imitation of the Greek and Roman authors of antiquity. The course begins with the assumptions and goals of neoclassical literature and integrates the intellectual debates and contemporary politics (patriarchy, nascent capitalism, empire, slavery, class divisions) that flourished alongside of (and that shaped the emergence of) new genres (the slave narrative, the novel, gothic tales, the periodical essay). Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 304 British Romantic Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Emphasizes the relationship between literature and its milieu. Focuses primarily on English Romantic Poets, but considers development in Germany, France, and America and examines its continuing manifestations in literature, culture, and politics. Rather than survey the period comprehensively, the purpose here is to focus closely on a specific literary period and on the writers of this period as selected by the instructor. (Offered as EN360 Romanticism prior to Spring, 1998)

EN 305 British Victorian Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines literary works against a background of rapidly changing social, economic, religious, and political forces.

Counter-culture movements, such as the Pre-Raphaelites, will be examined against "high Victorianism" to develop a sense of the tremendous intellectual and political energy of the period. Roots of recent concerns such as feminism, political literalism, and capitalism will be explored to help us better understand our own as well as the Victorian age. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 306 Modern British Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, and 213

Examines major works and trends in modern British literature, such as modernism or key fiction writers, dramatists, or poets during the first half of the twentieth century. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 307 Contemporary British Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines major works and trends in contemporary British literature, such as late modernism, postmodernism, the age of diminishment, or key novelists, dramatists, and/or poets from the period, 1945 to the present. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 310 Public Speaking

3c-01-3sh

Prerequisite: EN101

Fundamental principles of public speaking, audience analysis, interest and attention, and selection and organization of speech material.

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EN 311 Oral Interpretation

3c-01-3sh

Prerequisite: EN101

Emphasizes understanding and appreciation of literature through developing skill in reading aloud.

EN 312 Speech--Persuasion

3c-01-3sh

Prerequisites: EN202, 310

Advanced study of problems involved in influencing an audience.

EN 313 The Rhetorical Tradition

3c-01-3sh

Prerequisites: EN101, 310

Survey of rhetorical theory from Greek and Roman through modern times.

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EN 314 Speech and Communication in the Secondary English Classroom

3c-01-3sh

Prerequisites: EN122, 202

Offers students practical and theoretical approaches to relationships between oral and written communication. The

course is performance based (involving a variety of communication activities) and knowledge based (involving study of research on language arts relationships). Emphasis is given to integration of the four language arts for improving teachers' own communication skills as well as those of their students.

EN 315 American Literature to 1820

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

The beginnings of American literary cultures from sixteenth-century pre-Columbian indigenous contacts with European explorations, through diverse colonializations (Hispanic, French, and British) including the importation of African slaves, up to the American Revolution and emergent U.S. literary nationalism in the first decades of the nineteenth century. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 316 American Literature 1820-1880

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, and 213

Examines major works and trends in U.S. literature, from the Federalist, Romantic, and/or Realistic periods. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 317 American Literature 1880-1940

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines representative U.S. writers during 1880-1940. Includes traditional figures as well as writers who have recently entered the canon. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 318 Literature for Adolescents

3c-01-3sh

Prerequisites: EN101, 122, or permission, English Education major

Surveys poetry, drama, and fiction with which the adolescent is familiar through school work and personal reading. (Offered as EN218 prior to 1993-94)

EN 319 American Literature 1940-present

3c-01-3sh

Prerequisites: EN202 and at least two courses from EN210, 211, 212, 213

Additional prerequisites for B.A. English majors: EN210, 211, 212, 213 Focuses on various movements, themes, genres, and authors writing in the United States since 1940. Not a survey course; each section will develop an extended treatment of a particular topic selected by the instructor. Emphasizes writing by living writers to develop an understanding of the diversity, formally and thematically, of current U.S. literary production across genders and ethnicities.

EN 320 Advanced Composition II

3c-01-3sh

Prerequisites: EN202, 220

Workshop and tutorial atmosphere for students who intend to write or teach writing.

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EN 322 Technical Writing

3c-01-3sh

Prerequisite: EN202

Focuses on helping the student to acquire and to apply communication skills essential to the technical and professional writer.

EN 323 Teaching Literature and Reading in the Secondary School

3c-01-3sh

Prerequisites: EN122, 202

Introduces students to the theory and research on teaching literature and reading in the secondary school. Reviews reader-response literary theory and classroom-based research on teaching literature. Also reviews socio-psycholinguistic reading theory and classroom-based research on teaching reading.

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EN 324 Teaching and Evaluating Writing

3c-01-3sh

Prerequisites: EN122, 202, English Education major or permission

A study of modern approaches to the teaching of writing, including current theories on the composing process, as well as instruction in evaluating, including holistic scoring. Includes practice in writing.

EN 325 Creative Writing: Poetry

3c-01-3sh

Prerequisites: EN221, permission of instructor based on samples of student's work

This is a writing workshop for students who wish to focus intensively on the writing and revision of poetry and on developing an audience for one's works.

EN 326 Creative Writing: Fiction

3c-01-3sh

Prerequisites: EN221, permission of instructor based on samples of student's work

This is a writing workshop for students who wish to write fiction under the guidance of an instructor. The workshop focuses intensively on the writing and revision of prose fiction and on developing an audience for one's works.

EN 329 The History of the English Language

1c-01-1sh

Prerequisite: EN202

Studies historical development of the English language, as a basis for a better understanding of modern American English.

EN 330 The Structure of English

3c-01-3sh

Prerequisite: EN202

An introduction to the fundamentals of language study with equal emphasis on the sound, word, sentence, meaning, and discourse patterns of English. Educationally relevant topics, such as applications of linguistics to the teaching of English language and literature, varieties of grammar, and linguistic descriptions of styles and registers are an integral part of the course. Course is a prerequisite for ED452: Teaching of English in the Secondary School.

EN332 Advanced Film

3c-01-3sh

Prerequisites: EN101, 208

Offers a close examination of classic and contemporary films and film theory from a variety of critical perspectives: spectatorship, cinematic authorship, feminism, historiography, genre, and cultural studies. Pays special attention to the treatment of women and African-Americans in film.

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EN 333 Psycholinguistics

3c-01-3sh

Prerequisite: EN202

Psycholinguistics concerns the interrelation between language system and behavior and various factors of human psychology. Surveys developments since the 1940s, including relationships between language and perception, biology, memory, meaning, and cognition, as well as oral and written behavior. Students of language and literature may improve their assumptions about how human beings use language.

EN 334 ESL Methods and Materials

3c-01-3sh

Prerequisite: Junior standing or permission of the instructor

An introduction to English as a Second Language theory and practice. Aims: (1) general understanding of current theory and methods of teaching ESL; (2) ability to select appropriate, and adapt existing, materials for elementary and high school ESL students. Recommended for all English teachers who expect to have ESL students in their classes.

EN335 The Essay

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Focuses on the creation and development of the essay in English, its form and content, from its beginnings to the present. Students will begin by studying Francis Bacon, the first English essayist, and follow the evolution of the form to the present day.

EN 336 Language, Gender, and Society

3c-01-3sh

Prerequisites: EN202, junior standing

Investigates the various ways that language and gender interact and intersect in society. Examines such questions as: Does society use language to favor one sex over the other? Why is language a crucial component in formulating constructs of masculinity and femininity? What stereotypes of gender-based language are promoted in our society? How can we analyze language to reveal disparate views and treatment of the sexes?

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EN 337 Myth

3c-01-3sh

Prerequisites: EN202 and at least two courses from EN210, 211, 212, 213

Additional prerequisites for B.A. English majors: EN210, 211, 212, 213 Examines the nature and function of the mythic experience and explores the archetypal patterns of myths from various cultures. (Offered as EN370 Myth and Literature prior to Spring, 1998)

EN 338 Oral Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Acquaints students with the nature of oral composition, the habits of thought that orality fosters, and the particular mode of awareness the oral dimension of literature demands of an audience (and awakens in a reader). At the

conclusion of the course students should have an understanding of the formulaic nature of such purely oral forms as the ballad and the epic and an awareness of the manner in which orality patterns thought differently from writing, and they should be able to detect oral features and patterns in works of literature from cultures not primarily oral but containing a high "oral residue." (Offered as EN353 The Oral Dimension prior to Spring, 1998)

EN 344 Ethnic American Literature

3c-01-3sh

Prerequisites: EN202 and at least two courses from EN210, 211, 212, 213

Additional prerequisites for B.A. English majors: EN210, 211, 212, 213 Course is concerned with ethnic U.S. experiences as expressed in poetry, fiction, drama, and autobiography. The topic will vary and be announced in advance. Examples include Asian-American, Hispanic, Irish-American, Jewish-American, and Native-American literatures.

EN 348 African-American Literature

3c-01-3sh

Prerequisites: EN121 or 122 and 202

Primarily nineteenth- and twentieth-century African-American literature (poetry, fiction, nonfiction): includes works by Frederick Douglass, W. E. B. Du Bois, spirituals and folk poetry, Harriet B. Wilson, Jean Toomer, Richard Wright, Audrey Lorde, and Toni Morrison. Emphasis on historical context and an Afrocentric approach.

EN 349 English Bible as Literature

3c-01-3sh

Prerequisites: EN121 or 122 and 202

Considers literary aspects of the English Bible by relating earlier translations to the Authorized Version of 1611 and by tracing some of the major influences of the King James Bible upon writers and speakers of modern English. Offers a close reading of the major narrative and poetic portions of the Old Testament.

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EN 354 Classical Literature in Translation

3c-01-3sh

Prerequisites: EN122, 202

Masterpieces studied range from those of ancient Greece to Middle Ages. English literature and American literature excluded. (Offered as EN345 prior to Spring, 1998.)

EN 356 Film Theory

3c-01-3sh

Prerequisites: EN101, 208

An introduction to major film theories, studied in relation to representative films. Details the complex relationship between film production and film theory: i.e., how theorists have attempted to explain what appears on the screen, its impact, and its relation to "reality," and how filmmakers have responded to the works of theorists (with the two sometimes being the same). Goes far deeper into understanding film than EN208, which focuses mainly on how film is constructed through aesthetic and institutional processes.

EN 357 Major Figures in Film

3c-01-3sh

Prerequisites: EN101, 208

Studies major artists and their contributions to the development of film as an art form from its beginnings to the present. Close analyses of directors, cinematographers, editors, screenwriters, or actors – as individuals or as representatives of a movement in film. The topics will vary from semester to semester; thus, one semester may

concentrate on a specific director such as Alfred Hitchcock; another semester might study women (as directors, actresses, and editors); and yet another semester might study a collective movement such as film noir.

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EN 385 Advanced Women's Literature

3c-01-3sh

Prerequisites: EN202 and for non-majors EN225

Considers issues of genre and canon revision and why particular genres may have particular appeal for women writers. While many of our readings will be by "literary women," we will also consider works by women who were professionals in nonliterary disciplines.

EN 386 Regional Literature in English

3c-01-3sh

Prerequisites: EN202 and at least two courses from EN210, 211, 212, 213

Additional prerequisites for B.A. English majors: EN210, 211, 212, 213 Examines the contributions of a particular region to national literature. The focus of the course might be any of the following: Appalachian writers, local color writers, New England writers, Southern writers, writers of the American West, or Canadian writers.

EN 387 Irish Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

An introduction to Irish literature since 1800, with particular emphasis on the Literary Revival in the early twentieth century. Key authors include Yeats, Joyce, Synge, O'Casey, Edgeworth, Somerville and Ross, Gregory, Beckett, and Heaney. The development of Irish writing will be examined within the contexts of Irish history, language, culture, and politics.

EN 390 Literary Tour: Britain

3c-01-3sh

Offered selected summers, for five weeks during the first or second summer session. Visits London, Stratford, and Cambridge or Oxford, as well as other places important in English literature.

EN 391 Selected Works from the Medieval Period

3c-01-3sh

Prerequisites: EN/FL121 or EN122, EN202

Comparative study of selected works of major importance per se and as representative of major themes of medieval European literature. Also listed as FL391.

EN 393 Romanticism

3c-01-3sh

Prerequisites: EN/FL121 or EN122, EN202

Study of the principal authors and works of late eighteenth-century and early nineteenth-century Europe and the unique national characteristics of the Romantic movement in lyric, drama, and prose. Also listed as FL393.

EN 394 Nineteenth-Century European Novel in Translation

3c-01-3sh

Prerequisites: EN/FL121 or EN122, EN202

A survey of major nineteenth-century European novels in translation (excluding English), emphasizing the rise of realism and naturalism and the cultural, historical, social, and artistic relationships between the various national

literatures. Also listed as FL394.

EN 395 Selected Writers from Twentieth-Century Europe

3c-0l-3sh

Prerequisites: EN/FL121 or EN122, EN202

Comparative study of selected works of major importance per se or as representatives of major trends in twentieth-century literature. Also listed as FL395.

EN 396 The Literature of Emerging Nations

3c-0l-3sh

Prerequisites: EN/FL121 or EN122, EN202

A comparative study of a selection of literature written in major European languages but originating in the nations of the developing world. Works will be mainly prose fiction (although essay, theater, and poetry may be included) and reflect a diversity of geographical, cultural, and prior colonial circumstances. Also listed as FL396.

EN 401 Advanced Literary Theory and Criticism

3c-0l-3sh

Prerequisites: EN202, 210, 211, 212, 213

Acquaints students with major issues and problems in literary theory. Rather than survey the history of criticism and theory, this course focuses on modern and contemporary critical schools and methods. The purpose is to introduce students to a select group of influential theories and theorists and how such theories impact the way we read, study, and teach literature and cultural studies.

EN 420 Special Writing Applications

3c-0l-3sh

Prerequisite: EN220

Offers students who are well into their disciplines "forums" for advanced reading and writing about the cultural, professional, and personal uses of textual knowledge. Students will read, analyze, and compose essays that build meaning around disciplinary knowledge, independent reading, and personal or preprofessional experience. They will be encouraged to make connections between disciplinary knowledge and emerging knowledge or experience.

EN 422 Technical Writing II

3c-0l-3sh

Prerequisite: EN322

This is an advanced workshop/tutorial that provides intensive instruction in technical writing. Technical Writing II builds on the basics of audience, readability, proposals and reports, letters, memos, and resumes which are covered in Technical Writing I. The course describes the writer's role in such areas as legal and ethical aspects of technical communication; planning, testing, reviewing, and evaluating documents; and proofreading and editing.

EN 430 Major British Author

3c-0l-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines major works of a single major author, including biographical, literary, and cultural contexts. Places the author within both intellectual/cultural history and literary developments. Major author studied in a particular semester to be announced in advance.

EN 432 Chaucer

3c-0l-3sh

Prerequisites: EN202, 210, 211, 212, 213

Studies Chaucer, his life, his language, the development of his literary style, and his art, with and through his major poetical works. (Offered as EN340 prior to Spring, 1998)

EN 434 Shakespeare

3c-01-3sh

Prerequisites: EN202 and at least two courses from EN210, 211, 212, 213

Additional prerequisites for BA English majors: EN210, 211, 212, 213 Studies Shakespeare's development as a poetic dramatist against background of Elizabethan stage; examines audience, textual problems, language imagery, and philosophy. (Offered as EN341 prior to Spring, 1998)

EN 436 Major American Authors

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Studies in the literary output of a major American author or authors against the background of the social and literary milieus in which the works were created. Specific subject or subjects to be announced by the instructor. (Offered as EN343 prior to Spring, 1998)

EN 460 Topics in Film

3c-01-3sh

Prerequisites: EN101, 208

Selected films dealing with a specific, advanced topic will be viewed and assessed to explore the different roles that film plays. Topic to be announced in advance.

EN 461 Topics in British Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines major works of a particular topic in British literature by focusing on its cultural and literary contexts. Topic to be announced in advance.

EN 462 Topics in American Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines major works of a particular topic in American literature by focusing on its cultural and literary contexts. Topic to be announced in advance.

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EN 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Vary from semester to semester covering such diverse topics as autobiography, science fiction, folklore, the political novel, black theater, etc.

EN 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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EN 493 Internship

var-3-12sh

On-the-job training opportunities in related areas. Application and acceptance to internship program required.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Fashion Merchandising

Department of Human Development and Environmental Studies
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FM110](#) [FM112](#) [FM212](#) [FM214](#) [FM252](#) [FM281](#) [FM303](#) [FM314](#) [FM350](#) [FM357](#) [FM385](#) [FM433](#) [FM434](#) [FM450](#)
[FM453](#) [FM454](#) [FM455](#) [FM456](#) [FM457](#) [FM480](#) [FM481](#) [FM482](#)

FM 110 Introduction to Fashion

3c-0l-3sh

Survey of aesthetic, cultural, sociopsychological, and economic factors related to the meaning and use of clothing for the individual and society. (Offered as CS216 prior to 1996-97)

FM 112 Fundamentals of Clothing Construction

1c-3l-3sh

Principles and techniques involved in fundamental clothing construction and fitting are analyzed. Directed laboratory experiences provide an opportunity to solve individual problems in garment structure through the application of principles. (Offered as CS112 prior to 1996-97)

FM 212 Advanced Clothing Construction

1c-3l-3sh

Prerequisite: FM112 or placement (by exam)

Principles of advanced fitting and clothing construction are applied and analyzed. Offered even years, fall semester. (Offered as CS212 prior to 1996-97)

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FM 214 Environmental Textiles

2c-2l-3sh

Investigation of components and characteristics of textiles for man's near environment with emphasis on soft goods for public and private interiors, including production, marketing, and legislation affecting acquisition, use, and care. A student may not count both FM214 and 314 toward graduation requirements. (Offered as CS214 prior to 1996-97)

FM 252 Aesthetics of Fashion

1c-0l-3sh

Prerequisite: Sophomore standing

The study of contemporary apparel design and the relationship of design elements and principles to personal characteristics and social/professional orientation. (Offered as CS252 prior to 1996-97)

FM 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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FM 303 Visual Merchandising

1c-3l-3sh

Prerequisite: AR120 or equivalent

Designing and arranging of display and selling areas in relationship to merchandising trends and consumer demands. Emphasis on promotion techniques and merchandise sales through effective use of space, design, and color. (Offered as CS303 prior to 1996-97)

FM 314 Textiles

2c-2l-3sh

Prerequisite: CH102

Analyses of textile components of fiber, yarn, fabrication, finishes, and color with emphasis upon consumer acquisition, use, and satisfaction. (Offered as CS314 prior to 1996-97)

FM 350 Apparel Industry I

3c-0l-3sh

Prerequisites: FM110, completion of 57 semester hours

Introduces the student to the design, production, and distribution of apparel, including primary textile markets; women's, men's, and children's wear; accessories; fashion centers; retailers of fashion; apparel wholesale selling process; fashion store image; and future trends. (Offered as CS350 prior to 1996-97)

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FM 357 Global Issues in Textiles and Apparel

3c-0l-3sh

Prerequisite: EC121

The study of the global textiles and apparel industry with emphasis on the U.S. textile complex and the U.S. market within an international context.

FM 385 Ready-to-Wear Analysis

1c-3l-3sh

Prerequisites: FM112, 350

An examination and evaluation of the quality of ready-to-wear apparel through construction, style, fit, marketability, and price. (Offered as CS385 prior to 1996-97)

FM 433 Study Tour

var-1-6sh

Prerequisite: Upper-level standing

Opportunity is provided to visit business establishments and cultural centers concerned with household equipment, furnishings, textiles, clothing, and housing in America as well as abroad. Museums, factories, designers' showrooms, distribution centers, stores, cultural events, and seminars are included. Course may be repeated for a total of 6 semester hours. (This course is cross-listed as CS433.)

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FM 434 Quality Control in Textiles

2c-2l-3sh

Prerequisite: FM314

Physical properties explored through microscopic examination and use of textile testing equipment for fabric analysis. (Offered as CS434 prior to 1996-97)

FM 450 Apparel Industry II

3c-0l-3sh

Prerequisites: FM350 and Liberal Studies math requirements

Introduces the student to the merchandising and promotion of apparel, including organization, buying responsibilities, techniques, and resources: various retail institutions, resident buying offices, apparel dollar planning and control, apparel merchandise assortment planning, apparel buying practices, application of apparel planning and buying, and apparel advertising and promotion. (Offered as CS450 prior to 1996-97)

FM 453 Flat Pattern Design

1c-3l-3sh

Prerequisite: FM112 or 212

Garment design achieved by use of flat pattern techniques. An understanding is developed of the interrelationship of garment design, figure analysis, fabric, fit, and construction processes. Offered even years, spring semester. (Offered as CS453 prior to 1996-97)

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FM 454 Tailoring

1c-3l-3sh

Prerequisite: FM112 or 212

Various tailoring methods are studied and applied in the selection, fitting, and construction of a tailored garment. Consumer problems in the selection of ready-to-wear apparel are investigated. Offered odd years, fall semester. (Offered as CS454 prior to 1996-97)

FM 455 Draping

1c-3l-3sh

Prerequisite: FM112 or 212

Apparel design principles are applied by draping fabric to conform to the human figure. Students will pad a form to individual measurements and create garments that are both individual and original. Offered odd years, spring semester. (Offered as CS455 prior to 1996-97)

FM 456 Historic Costume

3c-0l-3sh

Chronological study of historic costume from ancient times to the present day with emphasis on the effect of aesthetic, economic, geographic, political, religious, and social factors upon the design of clothing worn. (Offered as CS456 prior to 1996-97)

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FM 457 Historic Textiles

3c-0l-3sh

Prerequisite: FM314 or with permission

A study of the development of textiles in prehistoric, ancient, medieval, and modern history with special emphasis on Western European and American textiles.

FM 480 Seminar in Fashion Merchandising

3c-01-3sh

Prerequisite: Senior standing

Knowledge gained in major and additional requirement courses is applied to individual career goals. Students have the opportunity to pursue related areas not directly covered in previous coursework, with emphasis upon independent research, analytical thinking, and communication skills.

FM 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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FM 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

Particular consumer considerations are independently investigated in the area of housing, home equipment, interior design, clothing, and textiles, or in the management of resources. Course may be repeated for a total of 3 semester hours. Students meet with a faculty member at least 5 hours per semester hour.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Finance

Department of Finance and Legal Studies Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FI220](#) [FI281](#) [FI310](#) [FI320](#) [FI322](#) [FI324](#) [FI355](#) [FI385](#) [FI410](#) [FI420](#) [FI422](#) [FI424](#) [FI481](#) [FI482](#) [FI493](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

FI 220 Essentials of Finance

3c-0l-3sh

Provides students with a survey of three fundamental areas of finance: 1) Corporate Finance, 2) Basic Investment, and 3) Financial Intermediation and the Monetary System. Students will be introduced to financial analysis, planning, and control; to the management (the acquisition and allocation) of funds; and to the fundamentals of the time value of money and capital budgeting. Students will be familiarized with the basic investment markets, fundamental and technical analysis, and portfolio analysis. Students will also consider the influence of government and financial institutions on interest rates, sources of finance, investment of funds, and finance in general. (Offered for Associate Degree Program at branch campuses only; may not be used as a substitute for FI310)

FI 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

FI 310 Finance I

3c-0l-3sh

Prerequisites: AG202, MA214 for business majors; AG202, MA214 or MA217 for non-business majors (MA214 recommended)

Study of the methods of securing and managing funds on short, intermediate, and long-term bases. The financial analysis, planning, and control of a corporation. Also covered is working capital management.

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FI 320 Finance II

3c-0l-3sh

Prerequisites: FI310, upper division only

Continues FI310 and covers topics on long-term external financing of the firm, capital budgeting, valuation of the firm, mergers, international business finance, and business failures.

FI 322 Life Insurance

3c-0l-3sh

Prerequisite: FI310

Comprehensive study of that insurance which provides protection against the economic loss caused by termination of earning capacity. Analysis benefits, underwriting, rate making, and legal doctrines.

FI 324 Principles of Investments

3c-0l-3sh

Prerequisite: FI310

Analysis of various types of securities and other forms of investment possibilities and a study of sound investment policies from a corporate viewpoint. Factors influencing the general movement of security prices and the return from investments are considered.

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FI 355 Financial Analysis Using Lotus 1-2-3

3c-0l-3sh

Prerequisites: BE/CO/IM101 and FI310

Develops the financial students' computer modeling and analysis skills. Students will be taught how to utilize current computing resources, electronic spreadsheet, and other computing software to analyze, model, and solve a variety of financial problems.

FI 385 Securities and Commodities Markets

3c-0l-3sh

Prerequisites: FI320, 324

Study of the structure of security and commodity markets; the nature of speculative transaction and methods of trading; analysis of pricing; and the objectives of security and commodity market regulation.

FI 410 Financial Institutions and Markets

3c-0l-3sh

Prerequisite: FI324

Review of the entire structure of financial institutions, money, and capital markets, of which the business enterprise is both a supply and demand factor, and structure and dynamics of interest-rate movements.

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FI 420 Investment Analysis

3c-0l-3sh

Prerequisites: FI320, 324

Integrates the work of the various courses in the finance areas and familiarizes the student with the tools and techniques of research in the different areas of investments.

FI 422 Seminar in Finance

3c-0l-3sh

Prerequisites: FI320, 324, seniors only

Primarily for the senior Finance major, covers topics in all areas of finance by using recent articles, cases, discussions, speakers, and a financial simulation game.

FI 424 International Financial Management

3c-01-4sh

Prerequisite: FI310

The financial management concepts, useful in a single-country context, are adapted for the international variables and constraints caused by being international. Provides an insight into unique issues and problems the manager of the multinational enterprise will face, such as working capital management; capital budgeting process; financing and investing abroad; capital and money markets; foreign exchange markets; and risk management.

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FI 481 Special Topics

var-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

FI 482 Independent Study

var-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

FI 493 Finance Internship

var-3-12sh

Prerequisites: FI320, 324, consent of chairperson and dean

Practical experience in the finance field. Note: Internship FI493 can be taken, if the student qualifies, as a general elective. It does not fulfill the major-area elective requirement.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Fine Arts

College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FA281](#) [FA481](#) [FA482](#) [FA493](#)

FA 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

FA 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

FA 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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FA 493 Internship

var-3-12sh

Covers the areas of the visual and performing arts.

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Food and Nutrition

Department of Food and Nutrition
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FN110](#) [FN143](#) [FN145](#) [FN150](#) [FN151](#) [FN212](#) [FN213](#) [FN245](#) [FN281](#) [FN355](#) [FN357](#) [FN362](#) [FN364](#) [FN402](#) [FN410](#)
[FN430](#) [FN444](#) [FN447](#) [FN455](#) [FN458](#) [FN461](#) [FN462](#) [FN463](#) [FN464](#) [FN470](#) [FN481](#) [FN482](#) [FN484](#) [FN493](#)

FN 110 Careers in Food and Nutrition

1c-0l-1sh

Career possibilities for nutrition majors are explored. Students will be guided in clarifying their professional goals and will become acquainted with the educational and experiential requirements necessary to attain these goals.

FN 143 Nutrition and Wellness

3c-0l-3sh

Introduces the student to the major components of wellness: contemporary nutrition issues as they relate to personal food choices, physical fitness, stress management, sexually transmitted diseases, AIDS, and substance abuse. Completion of FN143 fulfills the Liberal Studies Health and Wellness requirement.

FN 145 Introduction to Nutrition

3c-0l-3sh

Provides students with an understanding of essential nutrients and their roles in the body, as well as the changing nutritional needs of an individual throughout the lifespan. Includes the impact of exercise and food choices on metabolism, body composition, and weight control; nutrition misinformation; consumer issues; commercially prepared foods; and major diseases that are affected by eating behaviors.

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FN 150 Foods

3c-0l-3sh

Prerequisite (or concurrently): CH102

Basic principles of food, to include composition, sanitation, preparation, and preservation.

FN 151 Foods Laboratory

0c-3l-1sh

Prerequisite (or concurrently): FN150

Application of basic principles of food preparation.

FN 212 Nutrition

3c-0l-3sh

Prerequisite: CH102 or 112

Sources and functions of nutrients, interdependence of dietary essentials, and nutritive value of an optimum diet are studied. Attention given to varied conditions in human life.

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FN 213 Life Cycle Nutrition

3c-0l-3sh

Prerequisite: FN212

A detailed study of nutrition which applies information from FN212: Nutrition to all stages of the life cycle; current issues and research as they impact on these developmental stages.

FN 245 Sports Nutrition

1c-0l-1sh

Prerequisites: FN145 or 212

Emphasizes knowledge and application of sports nutrition principles. The impact of the macro- and micro-nutrients on physical performance will be discussed in light of current scientific research and applied to realistic dietary recommendation for all types and levels of athletes.

FN 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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FN 355 Nutrition in Disease I

3c-0l-3sh

Prerequisites: BI155, CH102, FN212

Basic tools for diet modification: food exchange systems; interviewing techniques; nutrition assessment; professional practice; dietary treatment of injury, surgery, recovery, obesity, and diabetes. Nutrition support. Food sampling experiences. Fall semester.

FN 357 Special Problems in Foods

0c-4l-3sh

Prerequisite: FN150

Individual problems in foods investigated with emphasis on identified weaknesses in the student's knowledge of food.

FN 362 Experimental Foods

2c-3l-3sh

Prerequisites: FN150, FN212, CH102, or CH112

The experimental study of foods, relating chemical and physical properties to reactions and processes occurring in food systems.

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FN 364 Methods of Teaching

3c-0l-3sh

Prerequisites: FN313 and 356 or concurrently

Current teaching techniques and resource materials in nutrition education emphasized. Both classroom teaching and

on-the-job training programs are included.

FN 402 Community Nutrition

3c-0l-3sh

Prerequisite: FN212

Nutritional implications of both good and poor nutrition for all age groups in home and community situations are studied. Corrective and preventive measures emphasized. Spring semester.

FN 410 Food, Nutrition, and Aging

3c-0l-3sh

Prerequisite: Junior status

Relationship of food to health maintenance and special dietary problems during the middle and later years.

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FN 430 Professional Topics in Food and Nutrition

3c-0l-3sh

Prerequisites: FN355, FN364, HR356, and PC101

Topics include promoting food and nutrition services and programs, career planning and development, ethical challenges to dietitians, quality assurance standards, and impact on the legislative process.

FN 444 Food Composition and Biochemistry

3c-0l-3sh

Prerequisites: CH355

Basic chemistry and biochemistry of essential components of food originating from plant and animal sources.

FN 447 Nutritional Aspects of Food Technology

3c-0l-3sh

Prerequisites: FN212 and BI232; junior status

Study of current known effects of food processing techniques on the nutritional value and safety of foods.

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FN 455 Nutrition in Disease II

3c-0l-3sh

Prerequisite: FN355

Dietary treatment of disorders of the gastrointestinal, renal, cardiovascular, and hepatic systems; inborn errors of metabolism; allergies; cancer. Therapeutic quackery. Food sampling experiences. Spring semester only.

FN 458 Advanced Human Nutrition

3c-0l-3sh

Prerequisites: CH351 or 355 or, concurrently, FN212, BI155

In-depth study of the nutrients and their functions within the cell. Incorporation of the principles of physiology and biochemistry in the study of nutrition. Emphasis on current research and evaluation of research methodology.

FN 461 Microwave Cooking Technology

2c-2l-3sh

Study of the electronic technology, selection, care, and use of the microwave oven. Basic physical and chemical concepts related to microwave cooking are included. Individual investigative research problems are required.

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FN 462 Advanced Experimental Foods

1c-4l-3sh

Prerequisites: FN362, CH231

An experimental approach to the many factors influencing the chemical and physical properties of food. Use of the scientific method in developing an individual project combining an evaluation of current literature and appropriate sensory and analytical methodology.

FN 463 Nutrition Counseling

2c-3l-3sh

Prerequisites: FN355, PC101, FN455 or concurrently

Use of intervention strategies in prevention and treatment of disease through diet. Supervised practicum (3 hours per week) counseling clientele in normal and therapeutic nutrition.

FN 464 Food and Nutrition Research Methods

3c-0l-3sh

Prerequisites: FN362, 458, CH351, and MA217

Introduction to research methodology in foods and nutrition. Includes theory and techniques of physical, chemical, and instrumental analysis. Applications of these methods to food and animal models with statistical analysis of data.

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FN 470 Human Food Consumption Patterns

3c-0l-3sh

Prerequisites: One social science course and junior standing

Exploration of human food consumption behaviors from food production to individual and societal consumption patterns. Influencing factors which will be discussed include agronomic, economic, geographic, sociologic, nutritional, political, and psychological factors. The ethics and morality of food distribution will be discussed. Students may not enroll in this course if they have taken the section LS499 that corresponds to this course.

FN 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

FN 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office; must have earned 60 semester hours

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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FN 484 Senior Seminar

1c-0l-1sh

Prerequisites: Senior status, FN458, 464 or concurrently

Emphasis on individual review of food and nutrition literature with formal presentation and discussion of current

research.

FN 493 Internship

var-6-12sh

Prerequisite: Must have earned 57 semester hours

An opportunity for students to work away from the university in supervised job situations at health care facilities, restaurants, or other institutional food service or lodging establishments. Objective is to provide students with job-related experiences. Must meet university internship requirements.

Note: White uniforms including white shoes are required for all lab courses where food is prepared. Students must meet the professional dress requirements of the department.

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Study Abroad and Comparative Literature (Foreign Language)

College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FL100](#) [FL121](#) [FL391](#) [FL392](#) [FL393](#) [FL394](#) [FL395](#) [FL396](#) [FL421](#) [FL482](#)

FL 100 Study Abroad

var-1-12sh

Registration mechanism and limited credit arrangement as provided in preapproval process for Study Abroad programs coordinated through the Center for International Studies.

FL 121 Humanities Literature

3c-0l-3sh

Introduces the student to works, authors, and genres of general literary significance in the Western tradition. Not organized historically but trains the student in the critical reading and appreciation of literature from the present and other periods. Authors, works, and themes are studied with respect to cultural context, aesthetic form, and thematic significance. Taught in English. Substitutes for EN121.

FL 391 Selected Works from the Medieval Period

3c-0l-3sh

Prerequisites: EN/FL121 or EN122, EN202

Comparative study of selected works of major importance per se and as representative of major themes of medieval European literature. Also listed as EN391.

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FL 392 Renaissance/Baroque/Classical

3c-0l-3sh

Prerequisites: EN/FL121 or EN122, EN202

Literary works representing various genres from both periods are studied and compared for their themes, motifs, and stylistic features, applying principles set forth in H. Wolfen's *Renaissance and Baroque*.

FL 393 Romanticism

3c-0l-3sh

Prerequisites: EN/FL121 or EN122, EN202

Study of the principal authors and works of late eighteenth- and early nineteenth-century Europe and the unique national characteristics of the Romantic movement in lyric, drama, and prose. Also listed as EN393.

FL 394 Nineteenth-Century European Novel in Translation

3c-01-3sh

Prerequisites: EN/FL121 or EN122, EN202

A survey of major nineteenth-century European novels in translation (excluding English), emphasizing the rise of realism and naturalism and the cultural, historical, social, and artistic relationships between the various national literatures. Also listed as EN394.

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FL 395 Selected Writers from 20th-Century Europe

3c-01-3sh

Prerequisites: EN/FL121 or EN122, EN202

Comparative study of selected works of major importance per se or as representatives of major trends in twentieth-century literature. Also listed as EN395.

FL 396 The Literature of Emerging Nations

3c-01-3sh

Prerequisites: EN/FL121 or EN122, EN202

A comparative study of a selection of literature written in major European languages but originating in the nations of the developing world. Works will be mainly prose fiction (although essay, theater, and poetry may be included) and reflect a diversity of geographical, cultural, and prior colonial circumstances. Also listed as EN396.

FL 421 Language and Society

3c-01-3sh

Considers salient facts of language and its role in society and culture. Language families, linguistic change, and reciprocal influences of culture and language are presented.

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FL 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Foundations of Education

Department of Foundations of Education College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FE202](#) [FE281](#) [FE440](#) [FE441](#) [FE442](#) [FE454](#) [FE456](#) [FE481](#) [FE482](#)

FE 202 American Education in Theory and Practice

3c-0l-3sh

Prerequisites: Students must have sophomore status and be enrolled in a teacher certification program

Provides an introduction to some of the major traditional and contemporary philosophic concepts which have played a role in the formation of educational policies and practices. Emphasis on the relationship between educational theory and practice in such areas as the role of the school in society, curricular content, teaching and learning methodology, educational goals, and professionalism.

FE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

FE 440 Orientation to Teaching in Urban Centers

3c-0l-3sh

Provides students with an understanding of learners and their unique learning needs and conditions. Emphasis on understanding the origin of attitudes and values and how these affect the relationships which exist between students and teachers. Special attention to practical application of theoretical information to problems of urban education. Field trips and guest speakers will be emphasized.

FE 441 Field Experiences in Urban Centers

var-6sh

Prerequisite: FE440

Provides specialized experience for students desiring to teach in inner-city schools. Aspects to be emphasized include physical characteristics of community, background and aspirations of children and youth, and specialized teacher competencies, classroom management, planning, instructional materials, teaching strategies, and evaluations. Records of comprehensive experiences in urban areas will be considered in making field experience assignments. Schools selected for student experience will be located in Pittsburgh.

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FE 442 Interpreting Urban/Field Experiences

var-3sh

Prerequisites: FE440, 441

Evaluation of learning and behavior problems encountered during field experience in urban schools. Flexible approach stressed to encourage wide range of investigation and exploration of psychological and sociological problems as they affect education. Supervision and guidance for investigating specific problems provided by specialists from psychology, sociology, and education who will function as resource personnel giving direction. Enables students to combine experiences gained by teaching in urban schools with recent and pertinent theoretical information.

FE 454 Public School Administration

3c-0l-3sh

Study of the development of public school administration; current organizational patterns for public education at the local, county, state, and national levels; and the impact of administration upon the total educational program.

FE 456 Issues and Trends in Education

3c-0l-3sh

Critical analysis of issues and trends in education with emphasis on philosophical and social dimensions of topics covered. Attention to work of some major contemporary critics of education.

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FE 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

FE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

French

Department of French
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FR101](#) [FR201](#) [FR202](#) [FR203](#) [FR221](#) [FR222](#) [FR253](#) [FR254](#) [FR281](#) [FR301](#) [FR321](#) [FR322](#) [FR351](#) [FR352](#) [FR354](#) [FR361](#)
[FR362](#) [FR363](#) [FR365](#) [FR366](#) [FR367](#) [FR368](#) [FR371](#) [FR372](#) [FR481](#) [FR482](#) [FR493](#)

FR 101 Basic French

4c-0l-4sh

For the student beginning the study of French or who needs remedial study before beginning the intermediate sequence. Primary emphasis is on the mastery of French pronunciation and oral communication. Students will learn to converse in simple present time and become acquainted with location of Francophone populations and elements of their daily lives. Attendance and Foreign Language Learning Center practice is required.

FR 201 College French I

3c-0l-3sh

The initiation of college-level mastery of basic language skills and exposure to cultural materials. Supplements beginners' oral competency with more advanced reading and writing. Emphasis on narration in the past. Efforts are made to practice skills and comprehend texts in authentic cultural contexts. Liberal Studies elective credit is given for this course.

FR 202 College French II

3c-0l-3sh

Prerequisite: FR201 or equivalent

This course continues the college-level mastery of language skills. The ability to narrate present and past is intended to express opinion and hypothesis. Emphasis is on acquiring greater skill in reading literary and cultural texts. Liberal Studies elective credit is given for this course.

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FR 203 Accelerated College French

6c-0l-6sh

Develops listening and speaking skills through an immersion method. Students use present, past, and future to indicative tenses in intensive aural/oral interaction and are expected to make use of the audio and video capabilities of the Foreign Language Learning Center on a weekly basis. Liberal Studies elective credit is given for this course.

FR 221 Conversation III

2c-0l-2sh

Gives students opportunity to practice the grammatical knowledge they acquire in a corresponding class and develops their oral skill. Stresses phonetics, pronunciation, and vocabulary.

FR 222 Conversation IV

2c-0l-2sh

Continues the study of phonetics to improve students' pronunciation. Readings of relatively short texts followed by questions and answers. Some informal conversation to increase the vocabulary, to be able to react spontaneously to a given situation, and to carry the oral skill to a higher level.

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FR 253 Intermediate Composition and Conversation

3c-0l-3sh

Intermediate course in grammar, reading, composition, and some oral work. Can substitute for or be in addition to FR202 for majors or serious students.

FR 254 Civilization of Modern France

3c-0l-3sh

Prerequisite: FR202 or equivalent

Study of modern French culture and civilization—social institutions, government, industry, economics, and geography. Development of all language skills for use in business situation in French-speaking environment. Emphasis on acquisition of an active knowledge of the business world.

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FR 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

FR 301 Portraits of Women in the French Novel

3c-0l-3sh

Explores the polarity of the treatment of female characters in the French novel. Explores differences of treatment by male and female writers through inclusion of women novelists. Provides a chronological survey of the development of the novel in France from the seventeenth to the twentieth centuries.

FR 321-322 Advanced Conversation I and II

each 1c-0l-1sh

Designed to increase speaking ability. The variety of content permits repetition of these relatively informal courses.

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FR 351-352 Advanced French I and II

each 3c-0l-3sh

Reviews grammar in depth; analyzes the structure of the language; frequent themes required.

FR 354 Business French

3c-0l-3sh

Prerequisite: FR254 or permission of instructor

Study of principles and practices of business communication in French secretarial and administrative procedures with an emphasis on the planning and writing of business letters, reports, and abstracts of articles in business and economics.

FR 361 Development of French Culture and Literature I

3c-0l-3sh

Provides a general background in French cultural history, including art, architecture, and music and in social and political ideas and a general survey of literature. The course spans the period from the Middle Ages to the French Revolution.

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FR 362 Development of French Culture and Literature II

3c-0l-3sh

This course provides a general background in French cultural history including art, architecture, and music and in social and political ideas and a general survey of literature. Spans the period from Pre-Romanticism to the present.

FR 363 Medieval and Renaissance Literature

3c-0l-3sh

A study of the major literary works of the period, beginning with the Chansons de gestes and emphasizing the evolution of ideas and the various literary genres.

FR 365 Seventeenth-Century French Literature

3c-0l-3sh

A study of the major Baroque and neoclassical works in poetry, theater, and prose with special attention to the evolution of ideas and the French moralist tradition.

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FR 366 Eighteenth-Century French Literature

3c-0l-3sh

A study of the Age of Enlightenment in its principal authors and works, including the popularization of ideas for and by secondary authors; a survey of the century's intellectual and literary crosscurrents in French literature and the wider scope of foreign influences.

FR 367 Nineteenth-Century French Literature

3c-0l-3sh

A study of the literature of nineteenth-century France with particular attention to the development of the novel while also treating the genres of poetry and theater. Attention is given foreign influences and correlations.

FR 368 Twentieth-Century French Literature

3c-0l-3sh

A survey of the poetic, theatrical, and narrative genres of the French twentieth century with emphasis on the interaction between philosophical development and literary expression.

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FR 371 The French Novel

3c-0l-3sh

Elective survey of the origin and development of the French novel. Works representative of major genres are read in their entirety.

FR 372 Studies in Contemporary French Literature

3c-0l-3sh

Content of this course will vary in accordance with needs and interests of those who elect it.

FR 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times.

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FR 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. An opportunity to engage in an in-depth analysis of some topic dealing with the French language and culture through consultation with a faculty member.

FR 493 Internship

var-3-12sh

Prerequisite: One semester of study in France

A supervised field experience in France with approved public agencies and institutions or private firms; no longer than one semester and no less than one month. Positions will be matched as closely as possible with the intern's personal interests and professional goals. For more information, contact the director of the Internship Abroad Program.

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Geography

Department of Geography and Regional Planning
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[GE101](#) [GE102](#) [GE104](#) [GE213](#) [GE230](#) [GE231](#) [GE241](#) [GE251](#) [GE252](#) [GE253](#) [GE254](#) [GE255](#) [GE256](#) [GE281](#) [GE313](#)
[GE314](#) [GE316](#) [GE331](#) [GE332](#) [GE333](#) [GE334](#) [GE336](#) [GE337](#) [GE340](#) [GE341](#) [GE342](#) [GE352](#) [GE371](#) [GE411](#) [GE412](#)
[GE415](#) [GE417](#) [GE431](#) [GE432](#) [GE440](#) [GE464](#) [GE481](#) [GE482](#) [GE493](#) [GE499](#)

GE 101 Introduction to Geography: Human Environment

3c-0l-3sh

Throughout history, human life and society have been shaped by the physical environment. Today, human activity threatens that environment. The relationship between humans and environment is examined in the context of the surface processes of weather, climate, plate tectonics, population distribution, and soil formation. Topics include agriculture, acid rain, global warming, deforestation, desertification, erosion, volcanism, and pollution.

GE 102 Geography of United States and Canada

3c-0l-3sh

The cultural landscape of North America is studied. The relationship between man and environment is examined and spatial patterns of environment, economy, society, and politics are considered.

GE 104 Geography of the Non-Western World

3c-0l-3sh

Relates theories of the discipline of geography to problems in the developing world. Emphasizes geographic components of dependency theory, indigenous versus industrial strategies of resource management; world systems theory, spatial legacies of colonialism; and development economics, theories of migration, and urban structure to explore causes, characteristics, and consequences of underdevelopment.

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GE 213 Cartography I

3c-0l-3sh

Introduces students to principles of thematic map construction. Emphasis is on the techniques of choropleth mapping and the production of scientific graphs and charts. (Also offered as RP213; may not be taken for duplicate credit)

GE 230 Cultural Geography

3c-0l-3sh

Introduction to cultural geography, including population, settlement, historical, urban, and political geography, human relationships with the natural environment, and the literature and methods of cultural geography.

GE 231 Economic Geography

3c-01-3sh

Introduction to geographic concepts, methods, and skills related to spatial patterns of production, consumption, and exchange over the earth's surface.

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GE 241 Physical Geography

3c-01-3sh

Introduction to physical geography including the study of weather, climate, soils, vegetation, landforms, energy cycles, and the hydrologic cycle.

GE 251 Geography of Pennsylvania

3c-01-3sh

Regions of Pennsylvania are examined in detail to identify man-environment relationships. Soils, topography, climate, vegetation, population, and economic patterns are studied.

GE 252 Geography of Latin America

3c-01-3sh

Impact of rapid population growth and economic development on the environment and spatial organization of Latin America are considered. The resource base and cultural heritage of the region are studied.

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GE 253 Geography of Europe

3c-01-3sh

Investigates relationships underlying land use, dominant international problems, boundary disputes, and regional complexes of the European continent.

GE 254 Geography of Russia and the Soviet Sphere

3c-01-3sh

Examines the Russian Republic and the former Soviet empire including the new nations emerging from the U.S.S.R. and former satellite nations. Settlement patterns, economics, cultures, and physical environments are studied. Contemporary topical emphasis is placed on efforts at transformation from communist to market economics and the geo-political status of the new nations. (Offered as Geography of U.S.S.R. prior to 1995-96)

GE 255 Geography of Africa

3c-01-3sh

Systematic survey of the physical, economic, political-historical, and cultural geography of the continent is followed by regional studies of countries and peoples in Africa, south of the Sahara.

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GE 256 Geography of East Asia

3c-01-3sh

Studies China, Japan, Korea, Outer Mongolia, Taiwan. Geographic background for development and wise use and restoration of natural resources are dealt with.

GE 281 Special Topics

3c-01-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students. (May also be offered as RP281; may not be taken as duplicate credit under same title)

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GE 313 Cartography II

3c-0l-3sh

Prerequisite: GE213

Gives an understanding of the compilation and use of maps and quantitative data. Develops skills essential to the construction of various types of maps. (Also offered as RP313; may not be taken for duplicate credit)

GE 314 Map and Photograph Interpretation

3c-0l-3sh

Maps and air photographs, along with remote sensing materials, permit inventory, and analysis of geologic, land use, urban development, and other landscape phenomena. The understanding of these materials and associated tools for their use is presented. (Also offered as RP314; may not be taken for duplicate credit)

GE 316 Introduction to Geographic Information Systems

3c-0l-3sh

Prerequisites: GE213, or equivalent, or permission of instructor

Automated methods for creating, maintaining, and analyzing spatial data are presented. Topics include 1) specialized GIS hardware and software, 2) vector vs. raster vs. object-oriented spatial data structures, 3) creation and manipulation of geographic data files, 4) data base design and management concepts, 5) spatial analysis, and 6) cartographic design. (Also offered as RP316; may not be taken for duplicate credit) (Offered as GE416, Computer-Assisted Cartography prior to 1995-96)

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GE 331 Population Geography

3c-0l-3sh

Spatial variations in numbers, characteristics, and dynamics of human population, models, and theoretical constructs relevant to demographic structures and processes are studied, as well as major world and regional problems.

GE 332 Urban Geography

3c-0l-3sh

Basic concepts of urban geography including site, situation, function, urban land use, urban structure, and urban hierarchy are introduced. Relationships between urban geography and urban planning are explored. (Also offered as RP332; may not be taken for duplicate credit)

GE 333 Trade and Transportation

3c-0l-3sh

Deals with the spatial aspects of transportation systems and their use. Circulation, accessibility, time and distance concepts, and trade patterns are discussed. (Also offered as RP333; may not be taken for duplicate credit)

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GE 334 Political Geography

3c-0l-3sh

Geographic factors and conditions are analyzed as they relate to the character and function of states. Political

institutions are evaluated in light of geographic conditions.

GE 336 Social Geography

3c-01-3sh

Spatial dimensions of the American society are the focus of this course. The distribution of various social groups and their impact on the landscape are considered.

GE 337 Historical Geography

3c-01-3sh

Studies of past geographies, geographical change through time, and historical perspectives on the cultural landscape are included. Historical geography of the United States is emphasized.

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GE 340 Geography of Fresh Water Resources

3c-01-3sh

Contributes to the students' understanding of fresh water as a resource. Fresh water is identified by its physical characteristics, by an inventory based on the types of storage within the hydrologic cycle, and by the values assigned to this resource by different cultures. Included in the course are problems relating to the consumptive and withdrawal uses of water, the role of water supply and water law, flooding and floodplain management, the sources of water contamination and pollution, and case studies of selected river basins.

GE 341 Climatology

3c-01-3sh

Elements of weather and climate and the climatic regions of the earth are studied in relation to other aspects of the physical and biological environment.

GE 342 Physiography

3c-01-3sh

Focuses on the study of landforms and water features. Types, distribution, and processes of formation are considered in relationship to the human landscape.

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GE 352 Planning Methods

3c-01-3sh

Prerequisite: RP350 or permission of instructor

Research, analytical design, and plan-making techniques in urban and regional planning. Examines basic items necessary to prepare urban and regional comprehensive plans. (Also offered as RP352; may not be taken for duplicate credit) (Offered as GE361, Planning: Basic Studies and Analysis prior to 1996-97)

GE 371 Aerospace Workshop

3c-01-3sh

Develops an appreciation and provides information related to aerospace activities and contributions; offers background for teaching aerospace courses; discusses aviation/space careers; and presents the basic principles of flying (usually including some flight instruction). Offered summer only.

GE 411 History of Geography

3c-01-3sh

Prerequisites: GE213, 230, 231, 241

Seminar dealing with history of the discipline, great ideas, leading problems, and unresolved issues.

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GE 412 Research Seminar

3c-0l-3sh

Prerequisite: GE411

This senior seminar and workshop is a capstone course that focuses on recent research in the major field. Students carry out a research project on a topic of local or regional importance. (Also offered as RP412; may not be taken for duplicate credit) (Offered as GE312, Research in Geography and Planning prior to 1996-97)

GE 415 Remote Sensing

3c-0l-3sh

Deals with air photographs, satellite imagery, thermal sensing, and radar imagery and their application to deriving information about the earth's physical and cultural landscapes. (Also offered as RP415; may not be taken for duplicate credit)

GE 417 GIS Applications Development

3c-0l-3sh

Prerequisites: GE316

A project-based class in which students learn the skills to develop and maintain a Geographic Information System. Through cooperative learning students will design and implement functional systems. Methods for designing GIS systems to user specification, data collection, data input, project management, and system documentation are covered. (Also offered as RP417; may not be taken for duplicate credit)

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GE 431 Geography of American Indians

3c-0l-3sh

Focuses on the historical/cultural geography of Native Americans. Population, resources, land use, development, settlement patterns, and other selected topics are covered.

GE 432 Geography of Crime

3c-0l-3sh

The geographical context of crime is examined from historical and contemporary viewpoints. Relevant concepts and analytical approaches are introduced.

GE 440 Conservation: Environmental Analysis

3c-0l-3sh

Problems of exploitation and utilization of regional resources such as soils, minerals, forests, and wildlife are considered in relation to population growth and regional planning and development.

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GE 464 Land Use Policy

3c-0l-3sh

Introduces students to and provides an overview of land use issues at the regional, state, and federal levels. Emphasis is placed upon the evolution of contemporary policy strategies, constitutional issues, and regional controversies involved in the regulation of metropolitan growth, central city decline, and management of public lands. (Also offered as RP464; may not be taken for duplicate credit)

GE 481 Special Topics

3c-01-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students. (May also be offered as RP481; may not be taken for duplicate credit under same title)

GE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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GE 493 Internship

var-3-12sh

Professional learning experience with emphasis on application of academic background. Open to majors and minors in geography with a total of 57 semester hours and 15 hours in the major. See internship supervisor for additional information.

GE 499 Independent Study

var-3-6sh

Independent research and study under faculty direction. Interested students should approach department chairperson for information.

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Geoscience

Department of Geoscience
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[GS101](#) [GS102](#) [GS103](#) [GS104](#) [GS105](#) [GS106](#) [GS111](#) [GS112](#) [GS113](#) [GS114](#) [GS121](#) [GS122](#) [GS131](#) [GS132](#) [GS141](#)
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[GS493](#)

GS 101 The Dynamic Earth

3c-0l-3sh

Prerequisite: No Geoscience majors/minors

Examines the constant changes that affect the rocky surface of our planet. From volcanic eruptions and catastrophic earthquakes to the slow drift of continents and passage of ice ages, earth processes have shaped the history of life and altered the development of human civilization.

GS 102 The Dynamic Earth Lab

0c-2l-1sh

Prerequisite: No Geoscience majors/minors

Corequisite: Enrollment in GS101

Introduces students to the techniques geologists use to study the earth and reconstruct its past. Labs cover minerals, rocks, map interpretation, fossil identification. Includes field trips during the scheduled lab period.

GS 103 Oceans and Atmospheres

3c-0l-3sh

Prerequisite: No Geoscience majors/minors

The earth's oceans and atmosphere play a crucial role in determining the pace and extent of changes occurring to our global environment. This course will examine the composition and character of these components and their interaction with other major components of the earth system.

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GS 104 Oceans and Atmospheres Lab

0c-2l-1sh

Prerequisite: No Geoscience majors/minors

Corequisite: Enrollment in GS103

Introduces students to the techniques oceanographers and meteorologists use to study the earth's oceans and atmospheres and reconstruct their evolution. Labs cover seawater processes, oceanic circulation, marine life, atmospheric structure, and weather.

GS 105 Exploring the Universe

3c-0l-3sh

Prerequisite: No Geoscience majors/minors

Examines the history of time, the reasons for the seasons, the characteristics of the planets, moons, stars, and galaxies, and the history and future of space exploration.

GS 106 Exploring the Universe Lab

0c-2l-1sh

Prerequisite: No Geoscience majors/minors

Corequisite: Enrollment in GS105

Introduces students to the techniques astronomers use to study the celestial sphere. Constellations, seasons, motions of Sun, Moon, planets, and stars, characteristics of stars and galaxies. Includes two observations which will be held at night.

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GS 111 Earth Science for Educators I

3c-0l-3sh

Prerequisite: Natural Science/Science Education majors only

An in-depth treatment of introductory oceanography and geology designed specifically for Secondary Science Education majors. Focuses on fundamentals of the earth's physical processes and history and on the ocean's dynamics, chemistry, and tectonics.

GS 112 Earth Science for Educators I Lab

0c-3l-1sh

Prerequisite: Natural Science/Science Education majors only

Corequisite: Enrollment in GS111

Lab experiences in various aspects of oceanography and geology, designed to provide concepts and skills for future teaching to Secondary Education majors. Includes field trip(s).

GS 113 Earth Science for Educators II

3c-0l-3sh

Prerequisite: Natural Science/Science Education majors only

An in-depth treatment of introductory meteorology and astronomy designed specifically for Secondary Science Education majors. Focuses on atmospheric processes and climate change and on the earth's place in the solar system and universe.

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GS 114 Earth Science for Educators II Lab

0c-3l-1sh

Prerequisite: Natural Science/Science Education majors only

Corequisite: Enrollment in GS113

Use of the weather station and planetarium highlights a series of exercises designed to aid Secondary Science Education majors in developing concepts and laboratory skills for future teaching.

GS 121 Physical Geology

3c-0l-3sh

Prerequisites: Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology, Geography/Regional Planning majors, or permission of instructor

Introduction to the science of the earth, including physical properties of its interior and crust; its tectonic and surface processes; and the complex geologic interactions which shape and modify our planet. Designed to prepare students for

upper-level geology classes.

GS 122 Physical Geology Laboratory

0c-3l-1sh

Prerequisites: Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology, Geography/Regional Planning majors, or permission of instructor

Corequisite: Enrollment in GS121

Selected problems in rock and mineral identification, topographic and geologic mapping techniques, geologic landforms and deformation structures. Designed to prepare students for upper-level geology classes. Includes field trips.

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GS 131 Historical Geology

3c-0l-3sh

Prerequisites: Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology, Geography/Regional Planning majors, or permission of instructor

Introduction to history of the earth, including the fossil record and the history of biologic evolution; the growth and tectonic interactions of oceans and continents; and the physical evolution of the earth's atmosphere, lithosphere, and hydrosphere. Designed to prepare students for upper-level geology classes.

GS 132 Historical Geology Laboratory

0c-3l-1sh

Prerequisites: GS121/122, Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology, Geography/Regional Planning majors, or permission of instructor

Corequisite: Enrollment in GS131

Selected problems in stratigraphic analysis, paleontology, and structural geology; designed to prepare students for upper-level geology classes. Includes field trips.

GS 141 Introduction to Ocean Science

3c-0l-3sh

Introduction to physical, chemical, biological, and geological processes in oceanography and the interactions among them. Impact of exploitation of the oceans, coastal areas, marine, physical, and living resources on the environment and on humankind. Includes field trips which may involve a fee and may occur on weekends.

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GS 150 Geology of National Parks

3c-0l-3sh

A study of geological processes and earth history as documented by the classical geological features of U.S. and Canadian national parks. Includes Badlands, Glacier, Grand Canyon, Great Smokies, Gros Morne, Mammoth Cave, Yellowstone, Yosemite, and others. Not open to Geoscience majors or minors.

GS 151 The Age of Dinosaurs

3c-0l-3sh

A thorough introduction to dinosaurs and the world they inhabited. Topics include the most current theories regarding dinosaurian biology (behavior, metabolism, evolution), ecology (greenhouse climate, associated plants and animals), and extinction (asteroid impact, volcanism, climate change). Not open to Geoscience majors and minors.

GS 221 Physical Resources of the Earth

3c-0l-3sh

Introduction to mineral, energy, and water resources of the earth; genesis of ore depositions; exploration, exploitation, and utilization of resources; impact of exploitation of resources on the environment and on humankind. Includes field trips which may occur on weekends.

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GS 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

GS 310 Environmental Geology

2c-3l-3sh

Prerequisite: 8sh in geology or permission

The application of geologic information to the accommodation and reduction of natural hazards, to land-use planning, and to the utilization of earth materials. Includes field trips which occur on weekends.

GS 321 Mineralogy

2c-3l-3sh

Prerequisite: GS121 or CH111

Concerned with properties of minerals; introduction to crystallography and chemistry of crystals, followed by a determination of minerals and their probable genesis. Includes field trips which may occur on weekends.

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GS 322 Igneous and Metamorphic Petrology

2c-3l-3sh

Prerequisite: GS321

Concerned with a description of igneous and metamorphic rock character based upon mineral components and physical relationship between mineral components of a rock. Includes field trips which may occur on weekends.

GS 325 Structural Geology

2c-3l-3sh

Prerequisites: GS131 and 132/133 or permission of instructor

Study of primary structures, contacts, rock mechanics, joints, faults, folds, foliation, and lineation. Includes work with geologic maps and structure sections. Brunton compass, orthographic and stereographic projections. Includes field trips which may occur on weekends.

GS 326 Field Geology

2c-3l-3sh

Prerequisite: GS325

Principles and techniques of field geology with emphasis on developing field skills using Brunton compass, aerial photographs, topographic maps, altimeter, Jacob staff, and rock color charts. Field projects involve techniques of field note-taking, measuring and describing stratigraphic sections, geologic field mapping and analysis, construction of geologic maps and structure sections, and report writing. Includes field trips which may occur on weekends.

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GS 327 Geomorphology

2c-3l-3sh

Prerequisites: GS121, 131

A study of the origin of the earth's land forms, including relationship of geologic structure to landform types and role of geomorphic processes in landscape development.

GS 330 Paleontology

2c-3l-3sh

Prerequisite: GS131 or permission of instructor

Study of the morphology, evolution, geologic significance, and paleoecology of fossil organisms. Includes field trips which may occur on weekends.

GS 331 Hydrogeology

2c-3l-3sh

Prerequisites: MA121-122, GS121-122/123, or permission

An overview of groundwater geology, including flow equations, graphical solutions to flow problems, and computer modeling of flow systems, as well as the geotechnical and social implications of groundwater utilization. Includes field trips which occur on weekends.

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GS 332 Geochemistry

2c-3l-3sh

Prerequisite: CH111-112, GS121-122/123, or permission

Introduction to low-temperature chemistry of the earth's surface and near-surface; includes discussions of chemical activity, solution chemistry, organic geochemistry, trace elements, isotopes, and the chemistry of natural waters.

GS 336 Geology of the Northern Rockies

var-3sh

Prerequisite: Permission of instructor

A field study of the major geologic features and relationships involved in the development of the northern Rocky Mountains. National Park and Monument areas of South Dakota, Wyoming, and Montana are included among the areas investigated. (three weeks, summer only)

GS 337 Geology of Newfoundland

var-3sh

Prerequisite: Permission of the instructor

A field course designed to utilize the exceptional and diverse geologic features of Newfoundland for instruction of departmental majors and minors in tectonic analysis utilizing sedimentologic, stratigraphic, and paleontologic observations. (three weeks, summer only)

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GS 338 Geology of the American Southwest

var-3sh

Prerequisite: Permission of instructor

A field study of the major geologic features and relationships exposed in the American Southwest, including the Colorado Plateau, the Rio Grande Rift, Death Valley, and parts of the Southern Rocky Mountains. (3 weeks, summer only)

GS 341 Solar System

2c-3l-3sh

Prerequisites: MA121 and PY111

Fundamentals of astronomy, with emphasis on observational methods, mechanics, and origin of the solar system and spatial relationship of the solar system to the other members of the universe.

GS 342 Stellar Astronomy

2c-3l-3sh

Prerequisites: MA121 and PY111

Fundamentals of astronomy, with emphasis on sun, stars, galaxies, the sidereal universe, and use of spectroscopy for gathering astronomical data.

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GS 350 Operation of the Planetarium

var-1sh

Prerequisites: GS110, 341, 342, or permission of instructor

Designed to acquaint the student with methods of operation and repair of a Spitz A-3-P planetarium. Content includes topics suitable for lectures to various age groups. Student will write and present a demonstration program. Meets once a week with occasional evening observations.

GS 361 Physical Oceanography

2c-3l-3sh

Prerequisites: PY111 and MA121 or permission of instructor

Introduction to physical, chemical, geological, and biological nature of ocean: topography, submarine geology, and bottom deposits. Includes field trip(s) which may occur on weekend(s).

GS 362 Plate Tectonics

2c-3l-3sh

Prerequisites: PY111-112 and a minimum of 20sh of geology Introduction to formal theory of plate tectonics. Topics include magnetic anomalies, first motion studies, thermal structures of the plates, kinematics, crustal generation, sea floor spreading, collision, and subduction deformation. Prior to 1988 was titled Marine Geology and Plate Tectonics.

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GS 371 Meteorology I

2c-3l-3sh

Prerequisite: One year of physical science or physics

Introduction to meteorological sciences; composition and structure of the atmosphere; radiation principles; elementary thermodynamics and heat balance.

GS 380 Research Techniques in Geoscience

2c-0l-2sh

Prerequisite: Second-semester junior standing (75 credits or permission of instructor)

For students majoring in some aspect of geoscience. Teaches students the techniques of geoscience research: defining a project; doing background research; proposing multiple working hypotheses and collecting evidence pertaining to each. Students will then write up their research in both abstract and professional manuscript format. Cannot be taken subsequent to GS480.

GS 411 Sedimentary Petrology

2c-3l-3sh

Prerequisite: GS321 or permission of instructor

Study of sediments and sedimentary rocks with emphasis on interpreting ancient environments of deposition utilizing sieve analysis, hand lens, and petrographic microscope. Includes field trips which may occur on weekends.

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GS 412 Stratigraphy

2c-3l-3sh

Prerequisite: GS411 or permission of instructor

Principles and processes involved in development and description of stratified rock sequences, principles and problems of correlation, and selected stratigraphic problems. Includes field trips which may occur on weekends.

GS 440 Subsurface Geology

2c-3l-3sh

Prerequisite: Minimum 20 credit hours of geology

An introduction to the geology of petroleum, its origin, migration, entrapment, and production. Lab is designed to provide practical experience in subsurface mapping techniques and the use and evaluation of geophysical logging devices. Includes field trips which may occur on weekends.

GS 441 Carbonate Geology-Florida

var-3sh

Prerequisite: 17sh geology courses or written permission of instructor

Two to three weeks of field study in Florida Keys. Course will be conducted from base camp in Florida Keys and will consist of both land and water work as the different carbonate environments in the Keys, Florida Bay, and the Atlantic reef tract are studied.

GS 480 Geoscience Seminar

var-1sh

For seniors majoring in some aspect of geoscience. The seminar (1) provides the student with an opportunity to prepare, formally present, and defend a scientific paper based either on his/her own research or on a topic chosen with the approval of instructor and (2) provides opportunity to discuss topics presented by other students, faculty, or guests.

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GS 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

It is the department's intention to use this course to schedule extended field trips and for teaching special courses which will utilize the specialties of the Geoscience faculty.

GS 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Independent study provides the student with an opportunity to use library, laboratory, or field research in an area which is of interest under the supervision of a designated faculty member. Approval is based on academic appropriateness and availability of resources.

GS 493 Geoscience Internship

var-1-12sh

Summer or semester work experience with cooperating firms or agencies. May be scheduled only after consultation with advisor and chairperson. Requirements include up to three on-site consultations, depending on credit hours and location's site; completion of up to three oral progress reports; and submission of a detailed work diary. Restricted to junior and senior department majors; only three credits may be applied toward major.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

German

Department of German
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[GM151](#) [GM152](#) [GM221](#) [GM222](#) [GM251](#) [GM252](#) [GM253](#) [GM254](#) [GM256](#) [GM281](#) [GM321](#) [GM322](#) [GM351](#) [GM352](#)
[GM361](#) [GM362](#) [GM363](#) [GM364](#) [GM367](#) [GM368](#) [GM369](#) [GM370](#) [GM371](#) [GM381](#) [GM410](#) [GM481](#) [GM482](#) [GM493](#)

GM 151 German I

3c-0l-3sh

For beginners, the objectives include grammar, pronunciation, reading, speaking, and writing.

GM 152 German II

3c-0l-3sh

For students who have had German I or its equivalent, the objectives are to enhance and develop the four skills of listening, speaking, reading, and writing.

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GM 221 Conversation III

2c-0l-2sh

Two-hours-weekly conversation practice in small groups emphasizing the use of greetings, idiomatic expressions, and communication skills to improve vocabulary and pronunciation.

GM 222 Conversation IV

2c-0l-2sh

Two hours of weekly conversation designed as a continuation of the practice in small groups, focusing on speaking and listening skills and on participation in discussions and dialogues. May enroll without having taken GM221.

GM 251 German III

3c-0l-3sh

Continued training in basic skills, with the possible addition of the study of specific topics; consult the department for topics of interest.

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GM 252 German IV

3c-0l-3sh

Continuation of German III with some emphasis on literary works.

GM 253 Intermediate Composition and Conversation

3c-0l-3sh

Can be taken instead of or in addition to 252. Designed for majors or serious students. Offered in spring only.

GM 254 Business German

3c-0l-3sh

Prerequisite: GM251 or equivalent

A one-semester course which can be taken instead of, or in addition to, GM252 by students interested in business or as part of the General Education requirement (equivalent to German IV). Business practices and specialized business vocabulary, letter writing, and problems of translation are emphasized.

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GM 256 Scientific German

3c-0l-3sh

Designed to substitute for GM252, course will be offered in the second semester. Primarily for science majors, it may be taken as an elective by German majors.

GM 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

GM 321-322 Advanced Conversation I and II

each 2c-0l-1sh

Designed to increase speaking ability. The variety of content permits repetitions of these relatively informal courses.

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GM 351 Advanced German Language I

3c-0l-3sh

Aims to review and expand the student's grammatical skills, to apply these skills to extensive cultural and short literary readings, and to produce frequent themes on these readings.

GM 352 Advanced German Language II

3c-0l-3sh

Continues to expand the student's grammatical skills and to apply them by the writing of longer themes based on cultural and literary readings.

GM 361 Development of German Culture and Literature I

3c-0l-3sh

Designed to provide a background in German literature, music, art, architecture, and history. Surveys the period from the migrations of the Germanic tribes to the rise of Prussia as a European power.

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GM 362 Development of German Culture and Literature II

3c-0l-3sh

A continuation of GM361. Covers the period from the French Revolution and its effects on Germany up to the present,

with an emphasis on German literature, history, and music.

GM 363 Introduction to German Literature I

3c-0l-3sh

Selected readings in German poetry to acquaint the student with formal and thematic aspects of German verse from the Middle Ages to the present.

GM 364 Introduction to German Literature II

3c-0l-3sh

Selected readings in German fiction and drama to acquaint the student with representative works and techniques of interpretation.

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GM 367 Nineteenth-Century German Literature

3c-0l-3sh

A survey of the major works of German poetry and prose with an emphasis on the literary movements of Romanticism, Realism, and Naturalism.

GM 368 Twentieth-Century German Literature

3c-0l-3sh

A study of representative works of German poetry and prose from Expressionism through World War II.

GM 369 Contemporary German Literature

3c-0l-3sh

A study of the literary achievement of postwar Germany up to the present.

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GM 370 The Age of Goethe I

3c-0l-3sh

A study of representative works from the Enlightenment and Storm and Stress periods.

GM 371 The Age of Goethe II

3c-0l-3sh

A study of selected works of German Classicism with an emphasis on the prose and poetry of the first decades of the nineteenth century.

GM 381 German Drama in English Translation

3c-0l-3sh

Representative works of major dramatists in English translation. Primarily intended for students of English literature and comparative literature and not considered as credit toward a German major.

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GM 410 History of the German Language

3c-0l-3sh

History and development of German language, with special emphasis on relationships with English. Analysis of annals in Gothic, Old High German, and Middle High German using methods of historical and contemporary linguistics.

GM 481 Special Topic

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students. Designed to meet the special needs of a student group.

GM 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

An opportunity to engage in an in-depth analysis of some topic dealing with the German language and culture through consultation with a faculty member.

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GM 493 Internship in Germany

var-3-12sh

Prerequisites: 12 credits in 300- or 400-level courses and a minimum of one semester study in Germany

A supervised field experience in Germany with approved public agencies and institutions or private firms; no longer than one semester and no less than one month. Positions will be matched as closely as possible with the intern's personal interests and degree of proficiency in the German language. Academic work at the Gesamthochschule in Duisburg must precede the internship. Open to students in other disciplines, such as Political Science, International Relations, Business, etc., with advisor approval.

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Gerontology

Department of Allied Health Professions Program
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[GN281](#) [GN481](#) [GN482](#) [GN493](#)

GN 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

GN 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content.

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

GN 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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GN 493 Internship

3sh

Prerequisites: Senior standing, all required courses

Supervised experience in public or private agency that serves aging clients.

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Greek

Department of Spanish and Classical Languages
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[GK151](#) [GK152](#) [GK251](#) [GK252](#) [GK351](#) [GK352](#) [GK482](#)

GK 151 Greek I

3c-0l-3sh

For beginning students; pronunciation, reading, oral, and written communication are the objectives. In grammar the case system of the Greek noun is begun. All classical Greek courses are offered occasionally through Independent Study; Modern Greek may be available through the Critical Languages program. Offered only by individualized instruction.

GK 152 Greek II

3c-0l-3sh

Continuation of Greek I. In grammar the case system of the Greek noun is completed. Offered only by individualized instruction.

GK 251 Greek III

3c-0l-3sh

Continued training in basic skills, with the possible addition of the study of specific topics; consult the department for topics of interest. In grammar most tenses of the Greek verb are studied. Offered only by individualized instruction.

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GK 252 Greek IV

3c-0l-3sh

Continuation of Greek III. In grammar more tenses of the verb are studied. The readings become short selections from Greek literature. Offered only by individualized instruction.

GK 351 Advanced Greek Language I

3c-0l-3sh

Reviews grammar in depth; analyzes the structure of the language. While themes are not required, selections from Greek prose are read both for knowledge of their content and for developing knowledge of the structure of the language. Offered only by individualized instruction.

GK 352 Advanced Greek Language II

3c-0l-3sh

Continuation of GK351. Selections are from poetry this semester. Offered only by individualized instruction.

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GK 482 Independent Study

var-3sh

An opportunity to engage in an in-depth analysis of some topics dealing with the Greek language and culture through consultation with a faculty member. Permission required.

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Health and Physical Education

Department of Health and Physical Education
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[HP117](#) [HP119](#) [HP123](#) [HP124](#) [HP126](#) [HP127](#) [HP128](#) [HP134](#) [HP142](#) [HP143](#) [HP145](#) [HP160](#) [HP162](#) [HP165](#) [HP166](#)
[HP167](#) [HP200](#) [HP210](#) [HP211](#) [HP212](#) [HP213](#) [HP221](#) [HP230](#) [HP242](#) [HP246](#) [HP251](#) [HP252](#) [HP261](#) [HP263](#) [HP264](#)
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[HP335](#) [HP341](#) [HP343](#) [HP344](#) [HP345](#) [HP346](#) [HP350](#) [HP353](#) [HP354](#) [HP372](#) [HP375](#) [HP408](#) [HP410](#) [HP411](#) [HP412](#)
[HP413](#) [HP426](#) [HP430](#) [HP441](#) [HP442](#) [HP447](#) [HP450](#) [HP481](#) [HP482](#) [HP482](#) [HP493](#)

HP 117 Fitness-Swimming

0c-2l-1sh

Fundamentals and techniques of swimming and fitness.

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HP 119 Golf-Bowling

0c-2l-1sh

Fundamentals and techniques of golf and bowling.

HP 123 Folk and Square Dance I

0c-2l-1sh

Fundamentals and techniques of folk and square dancing.

HP 124 Fitness Through Dance

0c-2l-1sh

A physical fitness development course for men and women that employs a combination of exercises and dance techniques performed to music.

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HP 126 Resistive Exercises

0c-2l-1sh

Fundamentals and techniques of progressive resistive exercises.

HP 127 Fencing

0c-2l-1sh

Fundamentals and techniques of fencing.

HP 128 Golf

0c-21-1sh

Fundamentals and techniques of golf.

[Back to Top](#)**HP 134 Bowling**

0c-21-1sh

Fundamentals and techniques of bowling.

HP 142 Foundations of Health, Physical Education, and Sport

3c-01-3sh

Historical, philosophical, and psychosocial foundations of health and physical education are introduced. Specific emphasis is given to scientific theories and principles in such areas as health promotion and behavioral change, exercise physiology, motor development, kinesiology, and motor learning.

[Back to Top](#)**HP 143 Health and Wellness**

3c-01-3sh

Introduces the student to the major components of wellness: contemporary nutrition issues as they relate to personal food choices, physical fitness, stress management, sexually transmitted diseases, AIDS, and substance abuse. Completion of HP143 fulfills the Liberal Studies Health and Wellness requirement.

HP 145 Tennis

0c-21-1sh

Fundamentals and techniques of tennis.

[Back to Top](#)**HP 160 Downhill Skiing**

1sh

The cognitives and skills necessary for beginning downhill skiing.

HP 162 Scuba Diving

0c-21-1sh

Designed to teach necessary skills and proper use of equipment for underwater swimming. Tanks, regulators, weights, and special equipment furnished. Student must purchase a mask, fins, and snorkel (approximately \$15). Includes theory as well as practical work.

HP 165 Lifeguarding

0c-21-1sh

Prerequisites: Departmental consent and Advanced Swimmer

Designed for professional lifeguards. Includes lifeguarding techniques for pools and fresh and saltwater beaches. Red Cross certification (Pittsburgh Division) granted upon satisfactory completion of course requirements.

[Back to Top](#)**HP 166 Basic Smallcraft**

0c-21-1sh

Prerequisite: Intermediate swimming ability

Designed to introduce the use of the canoe, paddle board, and sailboat. Emphasis is placed on the development of boating skills, safety rescue, and survival procedures. Red Cross smallcraft certification is granted upon successful completion of the course.

HP 167 Basic Synchronized Swimming

0c-2l-1sh

Prerequisite: Intermediate swimming ability

Activity course designed to assist students in the development of beginning synchronized swimming skills. YMCA certification is granted upon successful completion of course requirements.

HP 200 Fundamentals of Physical Activity

1c-2l-1sh

A foundation course designed for the purpose of training in the analysis and performance of the fundamental skills for subsequent motor behavior as they relate to games, sports, and dance. The opportunity to refine powers of observation through principles of efficient and effective movement fundamentals is provided. Individual data profile charts of performance will be completed for future reference.

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HP 210 Motor Development

2c-0l-2sh

Corequisite: HP200

A study of the processes of growth and development and their effects upon human motor behavior across the lifespan. Includes changes during physical growth, maturation and aging, and subsequent effects upon cognitive, perceptual, and physiological performance, both individually and within a sociocultural context.

HP 211 Dance, Rhythmic Activities, and Gymnastics

4c-2l-3sh

Prerequisite: HP200

Designed to provide an aesthetic and kinesthetic movement experience which will prepare the student as a teacher of basic movement in a variety of situations. The dance section will include creative movement, rhythms, and square, folk, and contemporary dance. Gymnastics will include basic tumbling, stunts, and apparatus skills.

HP 212 Team Sports

4c-2l-3sh

Prerequisite: HP200

Introduces students to the history, current status, and teaching similarities among team sports. Also includes materials and methods unique to each sport.

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HP 213 Individual and Dual Sports and Adventure Activities

4c-2l-3sh

Prerequisite: HP200

Provides historical and current status of individual and dual sports, as well as adventure activities. Includes skill development, analysis of skilled performance, and strategies for planning and implementing instructional programs.

HP 221 Human Structure and Function

3c-0l-3sh

Anatomical organization of the human body, surveyed in sufficient depth to prepare students for physiology,

biomechanics, and adaptive physical education.

HP 230 Aerobic Fitness

1c-2l-2sh

An opportunity to participate in a variety of aerobic activities; will aid fitness leaders in developing and implementing several types of aerobic programs; will offer current information on aerobics as preventive medicine.

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HP 242 Emergency Health Care

1c-2l-1sh

American Red Cross Standard, Advanced, and Instructor's certification and Multimedia Instructor's certification awarded upon successful completion of this course.

HP 246 Biomechanics

3c-0l-3sh

Prerequisite: HP221

Study of the relationship between mechanical and physical principles and human movement.

HP 251 Foundations of Safety and Emergency Health Care

3c-0l-3sh

Focuses on accident prevention, injury control, and first responder's skills. Emphasizes identification of causes of accidents, recommended countermeasures, and mitigation. American Red Cross certifications are issued in (1) standard first aid, (2) community CPR, (3) instructor of standard first aid, and (4) instructor of community CPR.

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HP 252 Introduction to the Driving Task

2c-2l-3sh

Provides an in-depth treatment of operating a motor vehicle competently in all major variations and under most conditions encountered in traffic. A competent operator is one who performs the total driving task knowledgeably and skillfully and demonstrates full understanding and application of identification, prediction, decision, and execution process.

HP 261 Water Safety Instructor

0c-2l-1sh

Prerequisites: Departmental consent and lifesaving certification

Emphasizes the teaching aspect of skills, techniques, and attitudes necessary in all areas of swimming. Students successfully completing course are qualified to hold such positions as waterfront directors, aquatic directors, and other similar positions.

HP 263 Aquatics

0c-2l-1sh

Basic performance techniques in swimming strokes presented with special emphasis on teaching methodology, aquatic sports and games, water safety, skin diving, springboard diving, and other aquatic activities.

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HP 264 Advanced Aquatics

0c-2l-1sh

Swimming and rescue skills necessary to complete American Red Cross Senior Lifesaving Course. Emphasis placed upon a broad range of other aquatic experiences and teaching strategies.

HP 270 Instructor of Handicapped Swimming

0c-2l-1sh

Prerequisite: HP261

Concerned with the learning of skills used to teach swimming to exceptional children. All handicaps are considered. This course is important not only in physical education but also for the mentally retarded, rehabilitation education, agency personnel, postgraduate swimming education, YMCA Boys Clubs, community programs, private clubs, and industrial programs. The Red Cross certification Instructor of Swimming for the Handicapped is granted upon successful completion of the course. Summer only.

HP 271 Instructor of Scuba Diving

0c-2l-1sh

Prerequisite: HP262

Prepares instructors to teach skin and scuba diving. Emphasis is placed on teaching methods, use and mechanics of equipment, safety, diving physics and physiology, and advanced diving skills. Instructor of Scuba Diving certificate granted by the Professional Association of Diving Instructors upon successful completion of the course. Summer only.

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HP 272 Instructor of Canoeing

0c-2l-1sh

Prerequisite: HP266

Concerned with the learning of skills pertinent to teaching canoeing to beginners. All aspects of canoeing including paddling, repair of equipment, white water canoeing, safety, survival, and teaching techniques are presented. The Red Cross certification Canoeing Instructor is granted upon successful completion of the course. Summer only.

HP 273 Instructor of Sailing

0c-2l-1sh

Prerequisite: HP266

Concerned with learning of skills pertinent to teaching beginning sailing. All aspects of sailing are considered, including the elements of sailing, repair of equipment, racing, safety, and techniques of teaching. Summer only.

HP 274 Instructor of Infants and Preschoolers in Swimming

0c-2l-1sh

Prerequisites: HP261, instructor's consent

Methods course for preparation of swimming instructors in the knowledge and skills of teaching young children to swim. YMCA certification Instructor of the Very Young granted upon successful completion of course requirements. Summer only.

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HP 276 Coaching of Swimming

0c-2l-1sh

Prerequisite: HP261

A lecture-discussion methods course designed to prepare Physical Education majors for coaching of swimming. Emphasis is placed on training methods, officiating, nutrition, scientific principles, and meet strategy. Summer only.

HP 277 Coaching of Synchronized Swimming

1c-2l-2sh

Designed to go beyond the activity nature of Basic Synchronized Swimming (HP267). Students are involved in set design, costumes, selection of music, making props, selecting themes, and organizing a program. Summer only.

HP 279 Swimming Pool Maintenance and Chemistry

2l-0l-2sh

Prerequisite: HP264

A lecture-discussion course designed to teach fundamental water chemistry, filtration, treatment of water problems, winterization of outdoor pools, and pool management. Emphasis is placed on water testing and analysis of chemicals and bacteria. Summer only.

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HP 280 Aquatic Facilities Management

2l-0l-2sh

Prerequisite: HP264

An organizational and administrative course designed to prepare the aquatic professional for management of indoor and outdoor facilities. Includes facility design, safety procedures activity, and sport and recreational aspects. Summer only.

HP 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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HP 318 Preprofessional Experience I

3c-0l-1sh

Recommended Prerequisite: HP321

Prerequisite: Physical Education majors only

Students teach as assistants to a faculty member in two different activities, one in physical education (general education) and one in elementary physical education at the University School. Emphasis on unit development, class management, leadership skills, and evaluation.

HP 319 Preprofessional Experience II

var-3sh

Prerequisites: Advanced standing, departmental approval

Students may request an assisting/teaching/leadership assignment in certain university-related areas that may be either instructional or noninstructional in nature. Examples of such professional areas are adaptives, recreation, dance, coaching, aquatics, intramurals, administration, elementary, service or major classes, club activities, and assisting in laboratory or the training room.

HP 321 Methods in Elementary Health and Physical Education

3c-0l-3sh

Prerequisite: Junior standing

Guides the professional student in the development of competencies essential to teaching health and physical education at the elementary school level. Includes theories of instruction in health science, necessity of a safe and healthful school environment, and judicious utilization of school and community health resources and service, as well

as study of theories of and movement relevant to elementary school children. Observation, materials, methods of teaching, and opportunities for intern teaching provided.

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HP 325 School and Community Health

3c-01-3sh

Prerequisite: Junior standing

Introduces students to the role of school and community in protecting and promoting the health of its members. Topics include historical development of the concepts of health and health education, identification of national and community goals to reduce risk of disease and enhance health status, and the responsibilities of both school and community toward achieving these goals.

HP 333 Psychology of Coaching

2c-01-2sh

The goals of athletics in schools and communities; principles and responsibilities of the coach; current problems.

HP 335 Coaching and Managing of Athletic Programs

3c-01-3sh

Lecture course designed to prepare students for coaching or administering an athletic program. Emphasizes the professional preparation and responsibilities of a coach, the support and auxiliary personnel working under and with the coach, and the coach's responsibility to the athletes, plus the administrative responsibilities of coaching.

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HP 341 Evaluation in Health and Physical Education

3c-01-3sh

Prerequisite: Junior standing

Evaluation theory, instructional objectives, and cognitive test construction; technical and practical considerations in testing and interpretation of test results in both health and physical education.

HP 343 Physiology of Exercise

3c-01-3sh

Prerequisite: HP221

Physiological effects of exercise in humans. Major factors of diet, conditioning, physical fitness, maximum performance level, and fatigue are considered.

HP 344 Adapted Physical Education

3c-01-3sh

Prerequisite: HP246

Recognition of structural deviations, corrective exercises, and physical education programs for a wide range of handicaps.

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HP 345 Athletic Training I

3c-01-3sh

Prerequisite: HP221

Specifically designed to introduce students to the discipline of athletic training with emphasis in prevention, evaluation, management, and rehabilitation in sports medicine.

HP 346 Athletic Training Lab

2c-01-1sh

Should be taken concurrently with HP345

Provides sufficient opportunity for each student to develop proficient skills and techniques in the areas of evaluation, assessment, taping, and rehabilitation procedures.

HP 350 Health Aspects of Aging

3c-01-3sh

Prerequisites: PC101, SO151, and junior standing

Current theory and research related to gerontology will be introduced to increase students understanding of the physical and psychosocial dimensions of aging. Additionally, this course will emphasize lifestyle factors and disease prevention aspects of aging. Recommended for students who plan to work with older adults.

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HP 353 Driver Education Program Management

3c-01-3sh

Emphasizes the development, organization, and management of high school driver education from the standpoint of its historical development to its present programs designed to meet the demands of the highway transportation system. Special emphasis on the role of the teacher in conducting a high-quality program that will meet with student, parent, school, and community approval.

HP 354 Application of Driver Education Instructional Modes

2c-21-3sh

Prerequisites: HP251, 252, 353

Prepares prospective driver education teachers to plan, teach, and evaluate the four modes of driver education (classroom, on-road, simulation, and multiple-vehicle range). Teaching high school students in supervised laboratory sessions is provided.

HP 372 Health and Physical Education for Special Populations

2c-01-2sh

Prerequisite: EX220; junior level or above

Methods and techniques of teaching health and physical education to special populations will be explored. Designed primarily for students majoring in special education, course will focus on handicapping conditions, limitations imposed by such conditions, and the responsibility of the special education teacher working in the physical education setting.

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HP 375 Physiological Basis of Strength Training

3c-01-3sh

Designed to give the student the anatomical and physiological basis of muscle function. Students should also gain an understanding of changes that can be made through weight training and knowledge of programs that will bring about these changes. Opportunities for working with various types of equipment will be available.

HP 408 Guided Research Problem

var-2sh

Prerequisite: Permission of department chairperson

Selection and research of a problem pertinent to student interests and those of the professions of health, physical education, and recreation. Classes held on a seminar basis.

HP 410 Exercise Prescription

3c-0l-3sh

Prerequisite: HP343

Designed to teach individuals to write exercise prescriptions based upon a subject's tolerance for physical activity. Special emphasis on risk factors, techniques of evaluation, drugs, injuries, environmental factors, and motivation and their role in physical activity assessment.

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HP 411 Physical Fitness Appraisal

3c-0l-3sh

Involves the selection, administration, and interpretation of various tests for appraising the physical fitness levels of individuals. Information given concerning the various fitness components, and discussions held so that each student gains an understanding of the variables to be tested.

HP 412 Physical Activity and Stress Management

3c-0l-3sh

Acquisition of necessary understanding of anxiety and stress; their nature, place in society, and intervention strategies as they relate to physical activity.

HP 413 Physical Activity and Aging

3c-0l-3sh

Presents major aspects of physical activity, its importance to the older adult, and the organization of an activity program. Attention to physiology of physical activity, effects of activity on growth and aging, exercise prescription, flexibility, overweight and obesity, and motivational strategies.

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HP 426 Health Science Instruction

3c-0l-3sh

Health curriculum—K-12, methods and media of instruction in health science.

HP 430 The American Woman and Sport

3c-0l-3sh

Comprehensive, multidisciplinary analysis of the problems, patterns, and processes associated with the sport involvement of girls and women in our culture. Presents historical perspective with an emphasis on physiological, psychological, and sociocultural influences.

HP 441 Psychosocial Implications for Health and Physical Education

3c-0l-3sh

Prerequisite: Senior standing

A study of psychological and sociological influences, both theoretical and empirical, and their effects upon health and physical performance.

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HP 442 Seminar in Health, Physical Education, and Recreation I

3c-0l-3sh

Theory and philosophy of health, physical education, and recreation; current issues and problems; innovative and creative programs.

HP 447 Cardiopulmonary Resuscitation (CPR) Instructor

1c-11-1sh

Prerequisite: Basic CPR certification

Study of methods and skills necessary to certify instructors of cardiopulmonary resuscitation and multimedia first aid. Successful completion of requirements leads to certification by the American Health Association and the American Red Cross. Summer only.

HP 450 Curriculum and Programming in Sexuality Education

3c-01-3sh

Topics include anatomy and physiology of the human reproductive tracts, development, birth defects, contraception, venereal disease, and abortion. Not for credit toward degrees in Biology.

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HP 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

HP 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

HP485 Student Assistance Program Training

3c-01-3sh

Prerequisites: Junior standing and EP202

Introduces the student to the concept of Student Assistance Programs(SAP) in schools. Includes the history of SAP, current involvement in public education, and the educator's role as a SAP member. Provides an experiential basis for preparation to assume the role of a SAP member.

Note: Majors in the B.S. in Education-Health and Physical Education program will have first opportunity to enroll in class; any openings in the class will then be offered to Elementary and Secondary Education majors.

HP 493 Internship

var-3-12sh

Educational opportunity which integrates classroom experience with practical experience in community service agencies or industrial, business, or governmental organizations. Junior standing required.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

History

Department of History
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[HI195](#) [HI200](#) [HI201](#) [HI202](#) [HI203](#) [HI210](#) [HI212](#) [HI214](#) [HI281](#) [HI301](#) [HI302](#) [HI303](#) [HI304](#) [HI305](#) [HI306](#) [HI307](#) [HI308](#)
[HI311](#) [HI320](#) [HI321](#) [HI322](#) [HI324](#) [HI325](#) [HI326](#) [HI327](#) [HI330](#) [HI331](#) [HI340](#) [HI341](#) [HI342](#) [HI343](#) [HI344](#) [HI345](#) [HI346](#)
[HI350](#) [HI351](#) [HI355](#) [HI356](#) [HI360](#) [HI361](#) [HI362](#) [HI363](#) [HI364](#) [HI365](#) [HI366](#) [HI367](#) [HI369](#) [HI370](#) [HI372](#) [HI373](#) [HI374](#)
[HI390](#) [HI391](#) [HI480](#) [HI481](#) [HI482](#) [HI483](#) [HI493](#)

HI 195 The Modern Era

3c-0l-3sh

Interprets the development of two centers of civilization, Europe and America, within a global context and extends from at least the Age of Enlightenment through the present. (Majors should substitute HI202 for HI195 to meet the Liberal Studies humanities requirements.)

HI 200 Introduction to History

3c-0l-3sh

For history majors and concentrates. Topics include philosophy of history, important schools of history and historians, and methods of historical research. Student is encouraged to become a better historian and to identify with historical profession. For History majors only.

HI 201 Western Civilization Before 1600

3c-0l-3sh

Survey course presenting in various forms the origin and development of major political, social, religious, and intellectual institutions in Western Civilization to approximately 1600. For History majors or by instructor's permission.

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HI 202 Western Civilization Since 1600

3c-0l-3sh

Development of Western civilization from the expansion of Europe to the present, including political, diplomatic, economic, social, and cultural areas. Introduces issues and interpretations encountered in upper-level courses. For History majors or by instructor's permission.

HI 203 United States History for Historians

3c-0l-3sh

Introduces aspiring historians to United States history since 1763. Emphasizes the issues, methods, and problems that currently concern professional historians. For History majors or by instructor's permission.

HI 210 Ancient Civilization: The Middle East and the Eastern Mediterranean

3c-0l-3sh

An examination of the development and the spread of ancient civilization in ancient Middle East and the Eastern Mediterranean. Topics of study will include the characteristics of civilization and the development of political, social, economic, and cultural institutions in the river valley centers and the diffusion to the fringe areas. (Course designed for nonmajors)

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HI 212 Ancient and Medieval Europe

3c-0l-3sh

An examination of the development of civilization in Europe during the ancient and medieval periods. The course will focus on the Ancient Greek and Roman civilizations and the medieval European civilization. The characteristics and institutions of civilization will be stressed as well as the political history.

HI 214 Themes in American History

3c-0l-3sh

Prerequisite: HI195

Open only to non-History majors. Designed to give students an appreciation of the basic themes and issues in the making of American society. Students will examine themes such as the fruition of democracy, the American dream, slavery and freedom, the tensions between liberty and order, and the role of the United States in a world setting.

HI 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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HI 301 History of Ancient Greece

3c-0l-3sh

Will analyze major political, social, and economic developments in ancient Greek civilization from Bronze Age to death of Alexander.

HI 302 History of Ancient Rome

3c-0l-3sh

Will trace Roman history from early Republic down to fall of Empire. Roman political theory will be particularly emphasized.

HI 303 Medieval Europe I, 400-1000

3c-0l-3sh

History of early Medieval Europe, from decline of Rome to beginnings of High Middle Ages; emphasis on political, social, economic, religious, and intellectual developments.

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HI 304 Medieval Europe II, 1000-1300

3c-0l-3sh

History of late Medieval Europe, from High Middle Ages to Renaissance period; emphasis on political, social,

economic, religious, and intellectual developments.

HI 305 Renaissance and Reformation

3c-0l-3sh

History of Europe from c. 1250; rise of commercial city, kings, and pressures on Christian Church to 1600. Some consideration of technology and voyages.

HI 306 Early Modern Europe

3c-0l-3sh

Greatness of France under Louis XIV; Sweden; Thirty Years' War. Emergence of modern society; French Revolution.

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HI 307 History of Europe: 1815-1914

3c-0l-3sh

Study of Europe in 19th century, with emphasis on the emergence of major thought patterns, Romanticism, Nationalism, Socialism, and Positivism.

HI 308 Twentieth-Century Europe

3c-0l-3sh

Political, economic, and diplomatic trends in Europe since 1900, with major emphasis on causes and results of war and search for security.

HI 311 Rise and Fall of Hitler's Empire

3c-0l-3sh

In-depth study of Hitler and the Nazi order; offers an analysis of nineteenth-century origins of Nazi ideology and intensively analyzes domestic and foreign totalitarian policy (1920-1945), including Holocaust, Resistance, and the postwar Nuremberg Trials.

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HI 320 History of England to 1688

3c-0l-3sh

Survey of the growth of the English nation, with emphasis on political, social, and economic developments leading to seventeenth-century conflict between Crown and Parliament.

HI 321 History of England, 1688 to Present

3c-0l-3sh

Survey of the growth of England as a democratic constitutional monarchy. Attention directed to industrial revolution and to imperial expansion and England's role in twentieth-century world. Attention given to social and cultural history.

HI 322 French Revolution and Napoleon

3c-0l-3sh

Brief sketch of Old Regime, concentration on Revolution and Empire, with emphasis on politics, social structure, diplomacy, and economics.

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HI 324 History of Germany to 1848

3c-0l-3sh

Study of the development of Germany politically and culturally from ancient times, emphasizing medieval and early modern periods to 1849.

HI 325 History of Germany: 1849 to the Present

3c-0l-3sh

Study of the political and cultural development of modern Germany from the Revolution of 1848, including imperial, republican, and totalitarian phases, to post-World War II East and West Germany.

HI 326 History of Russia

3c-0l-3sh

General survey of Russian history, culture, and institutions. Special consideration given to study of historical forces formative of Revolution of 1917.

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HI 327 Soviet Union and Contemporary Russia

3c-0l-3sh

Prerequisites: Sophomore standing, completion of HI195 (nonmajors)

Analyzes the period from 1855 to the present, including the attempts at modernization by Imperial Russia, the creation of the Soviet Union and further modernization, and the collapse of the Soviet Union.

HI 330 History of the Islamic Civilization

3c-0l-3sh

An approach to learning about a non-Western culture: Muhammad, Arabs, and Muslims as creators of a great civilization from rise of Islam to 1800; emphasis on cultural institutions of Islam and their interrelationships within Middle East.

HI 331 Modern Middle East

3c-0l-3sh

Survey of changes that have taken place in Middle East and in Islam since eighteenth century and of contemporary problems in that region.

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HI 340 Colonial America

3c-0l-3sh

Survey of original thirteen states from their inception as colonies within the British empire to 1763, the eve of Independence. Attention is given to their political development; economic position within the empire; relations with Indians; and evolution of social, educational, and religious life.

HI 341 American Revolution

3c-0l-3sh

An examination of Whig-Tory participants of American Revolution. Examines events from 1763 to 1783. Changing interpretations of the causes and effects of the revolution will be discussed.

HI 342 The Early Republic

3c-0l-3sh

Survey of United States history from 1783 to 1850, with special attention on constitutional, political, economic, and social trends.

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HI 343 Civil War and Reconstruction

3c-01-3sh

Study of the failure of American democracy to cope with issues of mid-nineteenth century, followed by political, economic, military, and social developments during war and reconciliation of North and South.

HI 344 The Age of Big Business in America, 1877-1917

3c-01-3sh

Examines how big business developed in America, how the economic change reshaped society, and how the reshaped society responded politically.

HI 345 The Age of Ragtime: American History, 1900-1929

3c-01-3sh

Using the nation's cultural development as its thematic foundation, analyzes the transitional character of the Progressive Era, World War I, and the 1920s.

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HI 346 Recent United States History

3c-01-3sh

Study of political, economic, and cultural changes in American life since 1929; examines roots of social problems facing us today. Some recent foreign policy trends also studied.

HI 350 History of Latin America Colonial Period, 1450-1820

3c-01-3sh

Study of life of people, Indian cultures, conquest by Spaniards and Portuguese, government during Colonial Period, and Wars of Independence.

HI 351 History of Latin America: National Period, 1820-Present

3c-01-3sh

Study of the history of nations which have emerged since independence; emphasis on economic, political, cultural, and social developments of these nations, as well as relationships of these nations to others in the hemisphere.

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HI 355 African History I: Antiquity to 1600

3c-01-3sh

Prerequisites: Sophomore standing, completion of HI195 (nonmajors)

Survey of the sociocultural, political, and economic life of precolonial African societies. Focus is on ancient kingdoms and cultures, precolonial states, internal and Atlantic trade networks.

HI 356 African History II: 1600 to Present

3c-01-3sh

Prerequisites: Sophomore standing, completion of HI195 (nonmajors)

Survey of African sociocultural, political, and economic developments during the colonial and modern periods. Course covers imperialism, the struggle for control for Africa, the two global wars and their repercussions for Africa, decolonization, and modern African states.

HI 360 History of Pennsylvania

3c-01-3sh

Emphasizes the cultural, economic, political, and social development of our state in its various periods from colonial to today. Special attention given to diversity of Pennsylvania's people, their institutions and problems.

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HI 361 History of American Diplomacy, 1775-1900

3c-01-3sh

Traces foreign relations of the United States from Independence to emergence as a world power. Topics concentrate on themes of commercial relations, political isolation, expansion, and debate over imperialism.

HI 362 History of American Diplomacy, 1900-present

3c-01-3sh

Treats primarily our twentieth-century involvement in world affairs and domestic debate over that involvement. Special emphasis will be placed on the role of interest groups and increasing power of Executive Department over foreign affairs.

HI 363 Thought and Culture in Early America

3c-01-3sh

Selected topics in early American intellectual and cultural growth, with emphasis on Puritanism, Enlightenment, cultural nationalism, and Romantic movement.

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HI 364 Thought and Culture in Modern America

3c-01-3sh

Selected treatment of historical development of modern American movements in social and political thought, religion, philosophy, fine arts, and literature.

HI 365 History of Black America Since Emancipation

3c-01-3sh

Description and analysis of the role of blacks in the history of the United States since the Civil War; emphasis on key leaders, major organizations, leading movements, and crucial ideologies of blacks in modern America.

HI 366 African-American Women

3c-01-3sh

Major economic, social, and political issues which have affected black women since their introduction into North America to the present.

HI 367 Native American History

3c-01-3sh

An unfamiliar perspective on a familiar tale. This course presents the "new Indian History"—North America from Native American materials and points of view. Identification, analysis, and synthesis of Indian realities and options over time are at the heart of this course.

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HI 369 Women in America

3c-01-3sh

A study of the activities of women from the colonial era to the modern era—evaluating cultural, societal, religious, economic, and political frameworks. Reviews women's involvement in movements for feminism, social reform, unionism, and the abolition of slavery.

HI 370 Religion in America

3c-0l-3sh

A history of religious belief and practice in the United States from the colonial period to the present, with an emphasis on the last one hundred years.

HI 372 History of the Early American Working Class

3c-0l-3sh

Description and analysis of the nature and significance of the working class of the United States in the eighteenth and nineteenth centuries. The work settings and communities of workers will be examined as well as unions such as the National Labor Union and the Knights of Labor.

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HI 373 History of the Modern American Working Class

3c-0l-3sh

Description and analysis of the nature and significance of the working class of the United States in the twentieth century. Work settings and strikes will be examined and analyzed as well as unions such as the United Mine Workers and the United Auto Workers and labor leaders including Samuel Gompers, John L. Lewis, and George Meany.

HI 374 History of Organized Crime

3c-0l-3sh

This course studies the relationship between urban, entrepreneurial crime and the evolution of industrial America.

HI 390 History of Women -- World Cultures

3c-0l-3sh

Explores religious, legal, political, economic, and mythic dimensions of women in society from ancient to modern times, including Western and non-Western experiences.

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HI 391 Film as History

3c-0l-3sh

Particularly concerned with probing the relationship between cinema and society. History of film is explored and student is given some background in film interpretation and cinematography, the western, science fiction, police films, and great foreign and American detective films.

HI 480 Senior Seminar

3c-0l-3sh

A regimen of research resulting in a written paper. Students work on a program selected by the instructor. For History majors or by instructor's permission.

HI 481 Special Studies in History

var-1-3sh

Prerequisite: As appropriate to course content

Each semester, courses are offered in interest areas that are not part of the regular program. Some examples of courses

of this type are the Victorian Age, the History of Love, World War II, the Great Depression, the Adams Chronicles, and the History of New York City. Students may schedule as many of these courses as desired, but two per semester is the usual limit.

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HI 482 Independent Study

var-3-6sh

Prerequisites: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office with 12sh in history; a 3.0 history average; permission of a faculty member. Approval is based on academic appropriateness and availability of resources

Involves directed reading or research for qualified students. Experimental projects and personalized learning are encouraged.

HI 483 Independent Study

3c-0l-3sh

An honors program within the independent study format. Minimum qualifications are a 3.0 QPA, 15sh of history, and a 3.2 average in history classes. Satisfactory honors work is rewarded by formal recognition at graduation.

HI 493 Internship

var-3-12sh

With departmental approval, students are attached to local or national government or private agencies doing directive, bibliographical, archival, or museum work. Advising professor meets with intern regularly and determines what papers or reports will be required.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Home Economics Education

Department of Human Development and Environmental Studies
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[HE218](#) [HE220](#) [HE224](#) [HE250](#) [HE281](#) [HE317](#) [HE321](#) [HE324](#) [HE350](#) [HE418](#) [HE420](#) [HE422](#) [HE424](#) [HE426](#) [HE427](#)
[HE430](#) [HE450](#) [HE455](#) [HE463](#) [HE481](#) [HE482](#) [HE493](#)

HE 218 Child Development

3c-0l-3sh

Prerequisite: PC101

Focuses on the normal development and behavior of children. Survey made of physical, emotional, social, and intellectual development of children from conception through early adolescence. Pertinent child development research analyzed.

HE 220 Teaching in Child Development Centers

2c-4l-4sh

Prerequisite: HE218 or equivalent

Techniques in planning for and teaching preschool children. Participation as teacher-assistant provides experience in applying principles of child guidance and development needed by teachers in preschool centers or secondary school child development laboratories.

HE 224 Marriage and Family Relations

3c-0l-3sh

Prerequisite: PC101

Focuses on principles of human relations basic to marital decisions and adjustment. Influence of community and family experiences on personal development and adjustment explored.

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HE 250 Introduction to Teaching Vocational Home Economics Education

3c-0l-3sh

Overview of philosophy and organization of home economics profession and the role of home economics teachers. Opportunities for planned observations and varied teaching experiences using a variety of resource materials are provided. Self-evaluation relative to desirable teacher competencies is stressed.

HE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

HE 317 Infant Development

2c-2l-3sh

Prerequisite: HE218

Study of characteristic developmental changes of human infants from birth to approximately two and a half years. Participation as teacher assistant in infant/toddler child care center provides experience in developmentally appropriate guidance and planning for very young children.

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HE 321 Preschool Education

3c-0l-3sh

Prerequisite: HE220 or concurrently

Examination of the child development philosophy as the basis for developmentally appropriate decisions and methods in preschool education programming. Emphasis is placed on play as a developmental process and as the major aspect of the preschool curriculum. May not be interchanged with EL353: Preschool Education.

HE 324 Family Dynamics

3c-0l-3sh

Prerequisite: HE224 or equivalent

Emphasis on processes and models of family development topics. Focus on approaches and dynamics of principles related to familial and marital adjustment and coping.

HE 350 Teaching Family Life Education

3c-0l-3sh

Prerequisites: HE250, ED242**Corequisite:** EP302

Emphasis on teaching family life education in home economics classrooms and through community organizations and agencies. Lessons are planned and implemented using a variety of instructional methods incorporating adaptations and modifications for special needs learners, basic skills, global concerns, and use of a problem-solving/decision-making approach. Planning of content, learning activities, instructional materials, and evaluation based on clearly stated objectives are emphasized. A microcomputer spreadsheet is utilized to manage a department budget and a gradebook. Participation in professional organization activities is expected.

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HE 418 Advanced Child Development

3c-0l-3sh

Prerequisite: HE218

Study of trends and research in the field of child development based on a review of major theorists and current literature.

HE 420 Practicum in Child Development

1c-10l-6sh

Prerequisites: Senior standing and HE220 and HE321

The intensive practicum provides in-depth practical advanced laboratory experiences designed to refine and further develop the techniques and skills needed by professionals to work with young children and families.

HE 422 Early Childhood Education

3c-0l-3sh

Prerequisite: HE220 or concurrently

Current educational theories and research reviewed in terms of implication for preschool and their effect on material, equipment, and activity selection.

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HE 424 Family Issues

3c-0l-3sh

Prerequisite: HE224

Concentrated study of selected areas of family life, with emphasis on current personal and social issues affecting the family.

HE 426 Techniques of Parent Education

3c-0l-3sh

Prerequisite: HE220 or equivalent

Examination of nature, extent, and significance of parent education. Interrelationships of home, school, and community agencies are examined in light of various programs, methods, and techniques of parenting education.

HE 427 Administration of Child Development Centers

3c-0l-3sh

Prerequisites: HE220 or equivalent, juniors or seniors only

Development of special knowledge and competencies needed by successful administrators of child care programs including proposal writing, budgeting, management, staff selection and training, appropriate curriculum materials, philosophy, parent involvement, child advocacy, and program evaluation.

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HE 430 Student Teaching Practicum

1c-0l-1sh

Taken concurrently with ED431 and 441. Assists student teachers in analyzing problems and experiences encountered during student teaching. Emphasizes the variety and types of home economics programs and focuses on developing effective teaching strategies (four sessions of three and a half hours during the semester).

HE 450 Teaching Vocational Home Economics

3c-0l-3sh

Prerequisite: HE350

Emphasis is on teaching vocational home economics in consumer/homemaking and occupational home economics programs. Federal legislation impacting on home economics is analyzed for use in program decisions. Emphasis is given to program development using CBVE model, development of individual learning packets, vocational youth organizations, advisory committees, home economics and vocational educational priorities, professional organizations, proposal development for funding, impact on public policy, marketing home economics, and development of a personal philosophy of home economics education.

HE 455 Home Economics Programs for Individuals with Special Needs

3c-0l-3sh

Prerequisite: EX300

Application of vocational regulations and public laws in relation to individuals with special needs. Developing home economics programs (planning, methods, strategies, and resources) for individuals with special needs applicable to school and nonschool settings.

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HE 463 Family and the Community

3c-01-3sh

Study of community agencies and problems that affect families and their contributions to community. Investigation of ways group dynamics, communication media, and other resources aid understanding of human behaviors. Field experience is an integral part of the course.

HE 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

HE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

Upper-level students with high scholastic achievement pursue their particular interests outside the realm of the organized home economics education curriculum. May be taken more than once to a maximum of 3 semester hours. Approval is based on academic appropriateness and availability of resources.

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HE 493 Internship

var-6-12sh

Prerequisites: Permission of department, college dean, and university internship coordinator; upper-level standing
Practical experience related to the student's major area of study. Objectives are developed individually in consultation with university faculty member who supervises the internship. Log and major paper required. May be repeated up to a total of 12 semester hours; however, these semester hours are not applicable toward the 124 semester hours required for graduation if student receives 12 semester hours in student teaching.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Hotel, Restaurant, and Institutional Management

Department of Hotel, Restaurant, and Institutional Management
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[HR101](#) [HR115](#) [HR245](#) [HR259](#) [HR281](#) [HR306](#) [HR313](#) [HR350](#) [HR356](#) [HR358](#) [HR360](#) [HR365](#) [HR401](#) [HR406](#) [HR408](#)
[HR411](#) [HR413](#) [HR420](#) [HR433](#) [HR481](#) [HR482](#) [HR493](#)

HR 101 Introduction to Hospitality Management

3c-0l-3sh

Focuses on the development of the hospitality industry and career opportunities within hotel and restaurant chains and independents. Guest speakers address various hospitality management topics.

HR 115 Introduction to Tourism

3c-0l-3sh

Prerequisites: HR101; majors only

Analyzes the economic and social impact of tourism, its promotion and implementation. Acquaints student with services needed by tourists, the role of the travel agent, and tourism organizations.

HR 245 Diversity and Multicultural Management in the Hospitality Industry

3c-0l-3sh

Prerequisite: Sophomore standing

Course will explore what happens when diverse people work together in the hospitality industry. It will also examine the effects of international migration and the changing roles of women and other minorities which lead to multicultural urban centers within the United States and other hospitality venues. Furthermore, it will also focus on the cultural factors affecting productivity in the culturally diverse hospitality environment.

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HR 259 Hospitality Purchasing

3c-0l-3sh

Prerequisite: FN150 or equivalent

Includes sources, standards, grades, methods of purchase, and storage of various foods, beverages, and fixtures. Emphasis on the development of purchasing policies and specifications.

HR 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

HR 306 Food and Beverage Management

3c-01-3sh

Prerequisite: FN150 or equivalent

Examines principles, processes, beverage laws, and food and beverage service, sales, promotions, and menu design as functions of the food and beverage department.

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HR 313 Food Systems I

2c-var-4sh

Prerequisites: FN150, HR259, permission; professional chef's uniform required

A basic course in quantity food production with experience in planning, purchasing, preparing, and serving nutritionally adequate meals. Requirements of the National School Lunch program emphasized in satellite and on-premises food service. Requires some preparation and service outside regularly scheduled class time.

HR 350 Introduction to the Casino Industry

2c-var-4sh

Prerequisites: Sophomore standing or permission of the professor

Introduces the student to the multi-billion-dollar casino industry. It examines the gaming industry from a historical perspective and includes legal, social, and economic issues. It also reviews the various games played in casinos and the current trends, as well as the most popular casino destinations in the world. Special attention will be devoted to the growth of casinos on cruise ships, on Native American reservations, and on riverboats in the USA. This course includes a field trip to Atlantic City or another casino setting, which occurs on a weekend. This field trip serves as a catalyst to appreciate all of the theoretical concepts discussed in the lectures. (pending Council of Trustees approval)

HR 356 Human Resources in the Hospitality Industry

3c-01-3sh

Prerequisites: PC101, HR313

Organization and administration of hospitality business, including human resource theories and policies, work simplification, training, communication, and safety.

HR 358 Food Service Equipment and Facilities Design

3c-01-3sh

Prerequisite: HR313

Examines types and uses of food service production and service equipment with emphasis on incorporation into an effective facilities design. Field trips permit investigation of a variety of unit designs.

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HR 360 Hotel Systems Management

3c-01-3sh

Prerequisites: HR356, IM241, AG201

Development and application of management skills as applied to the rooms division of a hotel. Emphasis on basic front desk procedures, rooms division departmental functions and relationships, and hotel facilities development. Students use MICROS 451 system in class.

HR 365 Hotel Design and Maintenance

3c-01-3sh

Prerequisite: HR356

Analyzes functions of housekeeping and maintenance departments within a hotel. Identification of various hotel design

concepts and design characteristics are explored, as well as guest room layout and furnishing.

HR 401 Cost Management

3c-0l-3sh

Prerequisites: HR356, 313

Food, beverage, and labor controls for hospitality or health care operations, including relationships between budgetary information and managerial decision making to meet financial needs.

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HR 406 Catering and Banquet Management

var-3sh

Prerequisites: HR313, majors only; chef's uniform and wait-staff attire required

Profitable organization, preparation, and service of catered events in both on- and off-premises locations are the main emphases of the course. Requires meeting times other than listed in order to meet course objectives.

HR 408 Institutions Management

3c-0l-3sh

Prerequisites: HR313, 356, AG201, senior standing

A compendium of the concepts of managing human resources, capital, materials, equipment, and markets as related to various hospitality property systems. Focus on concept development and managerial decision making.

HR 411 Seminar in Hospitality Management

3c-0l-3sh

Prerequisites: HR360, 365

Analysis of the current trends and practices within hospitality industry as related by industry professionals. Course includes researching topics and writing at least three research papers. Carries writing-intensive credit.

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HR 413 Food Systems II

1c-6l-4sh

Prerequisites: HR313, 356, 401, and permission; professional chef uniform required

Food systems course with emphasis on restaurant and dining room operation. Experiences to include selection of classic cuisines, meal promotion methods, budget development, personnel training, production, and service.

HR 420 Hotel Sales and Services

3c-0l-3sh

Prerequisites: BL235 and HR306

Examines the types of hotels, facilities, and organizations that hold conventions or meetings from the sales perspective. Examination of procedures necessary to service the group once in-house.

HR 433 Educational Study Tour

var-2-6sh

Comprehensive program of directed activities permits firsthand experiences in the historical and cultural aspects of the hospitality industry worldwide. Visits to renowned operations will be included in the tour.

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HR 481 Special Topics

var-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

HR 482 Independent Study in Hospitality Management

var-1-6sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. Must apply a semester in advance and have sixty earned credits.

HR 493 Internship in Hospitality Management

var-6-12sh

Prerequisites: 57 earned credits, 2.0 GPA, and completion of an approved 440-hour Work Experience I

An opportunity for students to work in a supervised experience directly related to the HRIM major. Must meet university and departmental internship requirements. Minimum of 440 hours required during the internship.

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Note: White uniforms including white shoes are required for all lab courses where food is prepared. Students must meet the professional dress requirements of the department.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Industrial and Labor Relations

Department of Industrial and Labor Relations
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[LR281](#) [LR426](#) [LR480](#) [LR481](#) [LR482](#) [LR499](#)

LR 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

LR 426 Case Studies in Labor-Management Relations

3c-0l-3sh

In-depth study of daily labor-management relationships in a variety of organizational settings through utilization of case study technique. Focuses on a problem-solving approach to the legal and contract administration components of the labor-management relationship.

LR 480 Principles and Practices of Collective Bargaining

3c-0l-3sh

An examination of the historical, legal, and functional parameters of collective bargaining. Topics covered include the organizing process, negotiations, contract administration, dispute resolution, and public sector labor relations.

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LR 481 Special Topics in Industrial and Labor Relations

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

LR 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

LR 499 Independent Study

var-1-3sh

Independent reading and research under the direction of a faculty member.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Information Management

Department of Management Information Systems and Decision Sciences
Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[IM101](#) [IM201](#) [IM205](#) [IM241](#) [IM245](#) [IM251](#) [IM255](#) [IM260](#) [IM281](#) [IM300](#) [IM350](#) [IM370](#) [IM372](#) [IM382](#) [IM450](#) [IM451](#)
[IM470](#) [IM480](#) [IM481](#) [IM482](#) [IM493](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

IM 101 Microbased Computer Literacy

3c-0l-3sh

An introductory course designed to provide students with a fundamental understanding of computers. This course familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and data base management), and the social and ethical aspect of the impact of computers on society.

Note: This course is cross-listed as BE101 and CO101. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

IM 201 Internet and Multimedia

3c-0l-3sh

Prerequisite: BE/CM/CO/IM 101 or prior exposure to word processing and electronic mail

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BE/CM/CO/IM/LB 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

IM 205 Foundations of MIS

3c-0l-3sh

Prerequisite: BE/CO/IM101

An introductory course designed to provide students with a fundamental understanding of MIS. Systems theory, quality, decision making, and the organizational role of information systems are introduced. Information technology, including basic programming skills, is stressed. Concepts of organization, information system growth, telecommunications, and re-engineering are introduced. (pending Council of Trustees approval)

IM 241 Introduction to Management Information Systems

3c-0l-3sh

Study of management information systems and their design and implementation. General systems theory, computer hardware, and programming are emphasized and then integrated to demonstrate how an MIS is developed. (Offered only at branch campuses after 1991-92)

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IM 245 Introduction to Microcomputers

3c-01-3sh

Demonstrates how to utilize the microcomputer in business. Topics will include hardware, operating systems, word processing, spreadsheets, data base, and BASIC. Offered for Associate Degree Program only.

IM 251 Business Systems Analysis and Design

3c-01-3sh

Prerequisite: IM241 or 300

Involves teaching the tools and techniques required for the analysis and the design of business systems. The major steps in the system's development life cycle are presented along with practical applications from the major subsystems of typical business organizations. Issues related to personnel, hardware, software, and procedures are explored as students work individually and in project teams to solve typical business application problems.

IM 255 Business Applications in COBOL

3c-01-3sh

Prerequisites: AG201 and IM241 or 300

Introduces the student to the COBOL programming as it applies to business organizations and their applications. Structured COBOL concepts and methods are taught as the student learns how to solve business problems using computers. The student will be involved using files, reports, and tables to produce a variety of outputs utilized in operating and managing business activities.

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IM 260 Business Computer Application Project

3c-01-3sh

Prerequisite: IM255

Provides each student an opportunity to utilize skills and concepts presented in previous COIS courses in the planning, design, and implementation of a comprehensive case study involving computerized business applications. Students will work in teams and individually in performing tasks that are necessary to solve each problem assigned. These tasks will include systems analysis, systems design, programming, testing, and implementing and documenting simulated business problems.

IM 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

IM 300 Information Systems: Theory and Practice

3c-01-3sh

Prerequisites: CO/BE/IM 101, AG202

Includes basic MIS concepts, fundamentals, and practices. Broad areas of coverage are principles, the computer as a problem-solving tool, Computer-Based Information Systems (CBIS), organizational information systems, and Information Systems management. (Replaced IM241 in Eberly College of Business core, effective fall, 1992)

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IM 350 Business Systems Technology

3c-01-3sh

Prerequisite: CO220 or IM255

Student is taught fundamental and advanced concepts of computer hardware and a procedure for evaluation and acquisition of computer hardware.

IM 370 Advanced COBOL

3c-01-3sh

Prerequisite: CO220

Corequisite: IM350

Advanced COBOL is a continuation of introductory COBOL with an emphasis on structured methodology of program design, development, testing, implementation, and documentation of common business-oriented applications. It includes a heavy emphasis on the techniques and concepts of the table processing, file organization, and processing alternatives, internal and external sorting, subroutines, and application development for both the batch and on-line systems. Micro Focus COBOL software is utilized.

IM 372 Microcomputer Applications

3c-01-3sh

Prerequisites: IM350, CO220, AG201, or by permission

Demonstrates how to use the microcomputer in business and how to provide technical assistance to users of the microcomputer. Emphasis will be placed on integrating software and interfacing with mainframe computers or with minicomputers. Topics covered include microcomputer hardware, microcomputer operating systems, local area networks, and microcomputer software tools.

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IM 382 Auditing for EDP Systems

3c-01-3sh

Prerequisites: AG201, CO220, or IM255

Emphasizes the responsibility of the systems analyst to include in systems design the proper management and financial controls and audit trails in business information systems. The design of controls for application programs and systems is covered. Audit software packages are examined.

IM 450 Data Base Theory and Application

3c-01-3sh

Prerequisites: IM370, upper-division students only

After learning data structures, the student will then apply them to CODASYL compatible data base management systems, TOTAL, and IBM's data base management system. Student must develop and use a data base as part of requirement. [Course revision in process]

IM 451 Systems Analysis

3c-01-3sh

Prerequisites: IM350 and IM255 or CO220

Develops an understanding of concepts and techniques involving conventional and structured approaches to analyzing problems of business information systems and systems definition feasibility, as well as quantitative and evaluative techniques of business information systems analysis.

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IM 470 Systems Design

3c-01-3sh

Prerequisite: IM451

Students learn tools and techniques for design of a business system. Along with classroom discussions of principles and techniques for analyzing, designing, and constructing the system, students will formulate system teams to analyze the problems of an existing business information system, to design an improved system, and to control implementation of a new system.

IM 480 Distributed Business Information Systems

3c-01-3sh

Prerequisite: IM350

Study of the techniques involved in planning, design, and implementation of distributed processing systems. Distributed marketing, financial, and corporate accounting systems are included.

IM 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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IM 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office Individual research and analysis of contemporary problems and issues in a concentrated area of study under the guidance of a senior faculty member. Approval is based on academic appropriateness and availability of resources.

IM 493 Internship in MIS

var-3-12sh

Prerequisites: IM370, consent of department chairperson and dean

Positions with participating business, industry, or governmental organizations provide the student with experience in systems analysis.

Note: Internship IM493 can be taken, if the student qualifies, as a general elective. It does not fulfill the major-area elective requirement.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

International Studies

Department of Political Science
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[IS281 IS482](#)

IS 281 Special Topics in Non-Western Studies

var-1-3sh

This course focuses on politics, society, and culture of a particular non-Western country or area. Course content is variable, depending on the semester. Will be taught by visiting exchange professors from non-Western countries. This Special Topics course may be offered on a continuing basis.

IS 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member.

Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Journalism

Department of Journalism
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[JN102](#) [JN105](#) [JN120](#) [JN220](#) [JN243](#) [JN250](#) [JN281](#) [JN321](#) [JN323](#) [JN326](#) [JN327](#) [JN328](#) [JN337](#) [JN344](#) [JN345](#) [JN347](#)
[JN348](#) [JN375](#) [JN393](#) [JN423](#) [JN427](#) [JN430](#) [JN446](#) [JN450](#) [JN481](#) [JN482](#) [JN490](#) [JN491](#) [JN492](#) [JN493](#) [JN494](#)

JN 102 Basic Journalistic Skills

3c-0l-3sh

Prerequisite: EN101

Required for journalism majors and minors. Emphasis on grammar, punctuation, spelling, AP Stylebook, copyediting, headlines, and accuracy. (Offered as JN106 prior to 1994-95)

JN 105 Journalism and the Mass Media

3c-0l-3sh

Prerequisite: EN101

A critical examination of roles-goals of newspapers, magazines, radio, and television as they affect American society socially, politically, and economically.

JN 120 Journalistic Writing

3c-0l-3sh

Prerequisite: EN101, nonmajors/minors

Emphasis on intelligent use of writing ability in a journalistic style and understanding of the why of journalism and mass media. This course practices and improves writing skills for all news media, print and broadcast.

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JN 220 Writing for the Print Media

3c-0l-3sh

Prerequisites: JN102 (C or better), majors only

A course in journalistic style intended for students who plan to become professional writers. Teaches the basic journalistic formats and strategies used in print media such as the summary lead, the delayed lead, and the conventional news-story format. Throughout emphasizes economy, clarity, and the development of voice for a given medium.

JN 243 History of the American Press

3c-0l-3sh

Prerequisites: JN120 or 220

Traces the development of the American press from its colonial roots. Emphasis on the role of the press in political and social development. (Offered as JN343 prior to 1994-95)

JN 250 Women and the Press

3c-0l-3sh

Prerequisites: EN101, sophomore standing

Explores the role of women in American journalism. Includes study of lives/careers of women journalists and their specific contributions to the profession. Emphasis on evolution of equal opportunity for women and other minorities in the American Press. Attention to the changing definition of news as influenced by the inclusion of women and minorities in editorial roles.

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JN 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

JN 321 Feature Writing

3c-0l-3sh

Prerequisites: JN102, 220

Designed for the student who might work in journalism or who might wish to write on a part-time or free-lance basis.

JN 323 Management in Mass Communications

3c-0l-3sh

Prerequisites: JN493 or field experience

Attention given to the process of advancement to management positions in the advertising, journalism, and public relations industries.

JN 326 Public Relations I

3c-0l-3sh

Prerequisites: JN102, 120 or 220

Introduces students to the principles, practices, programs, and possibilities in the various areas of public relations.

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JN 327 Layout Design and Production

2c-3l-3sh

Prerequisite: JN105

Provides basic techniques and theories of layout design and production, including typography, copyfitting, photo/art cropping and scaling, and steps in design process. Includes traditional paste-up and desktop publishing in the design of ads, newspapers, newsletters, brochures, and magazines.

JN 328 News Reporting

3c-0l-3sh

Prerequisites: JN102, 105, 220, majors only

Includes instruction in writing the news story, preparing copy, interviewing, covering special events, and similar reporting activities.

JN 337 Editing

3c-0l-3sh

Prerequisites: JN102, 220

Stresses basic practices such as copyediting and headline writing while also focusing on guidelines for improving accuracy, clarity, transition, spelling, and punctuation of copy. Students use wire service stylebook extensively.

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JN 344 Issues and Problems

3c-01-3sh

Prerequisites: JN102, JN120 or JN220

Students examine critical case histories of ethical and professional situations and circumstances in the mass communication industry in a lecture and discussion format.

JN 345 Sports Journalism

3c-01-3sh

Prerequisite: JN220

Emphasizes skills for covering, writing, and editing of sports and introduces students to specific practices in newspaper, radio-TV, and sports information work.

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JN 347 Journalism Law

3c-01-3sh

Prerequisites: JN328, junior/senior standing

Open to nonmajors by permission of the instructor. Survey of the major Supreme Court and state court rulings governing the mass media, especially the news media. Areas include libel, antitrust, free press/fair trial, privacy. Approach is nontechnical.

JN 348 The Editorial Page

3c-01-3sh

Prerequisite: Junior/senior standing

Emphasis on the writing of vigorous but thoughtful and fair editorials. Study of contemporary practice and policy on letters to the editor, columnists, cartoons, the op-ed page.

JN 375 World News Coverage

3c-01-3sh

Prerequisite: Sophomore standing

A course dealing with international news events and analysis of international news coverage in sources from around the world. Emphasis placed on analyzing comparative coverage of events in different sources. Students study not only current international news but also how it is reported. The goal of the course is fostering a critical attitude toward news.

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JN 393 Document Design I

3c-01-3sh

Prerequisite: Junior/senior standing

Teaches students advanced principles of document design and gives them the opportunity to apply techniques of rhetorical/stylistic analysis, general problem solving, and holistic information display to a wide variety of writing formats used in business, industry, and government news.

JN 423 Management in Mass Communications

3c-01-3sh

Prerequisites: JN493 or field experience

Attention given to the process of advancement to management positions in the advertising, journalism, and public relations industries.

JN 427 Publications

3c-01-3sh

Prerequisites: JN493 or field experience

Provides advanced techniques and theories of publications design, including the legibility principles of typography, the psychological impact of color and paper, and designing on-line publications, such as newspapers, newsletters, and magazines. Students will also learn principles and concepts of publications management, including coping with deadline pressures and the creative disposition, and the marketing of publications. The class will produce a total publication. (pending Council of Trustees approval)

JN 430 Public Opinion and the News Media

3c-01-3sh

Prerequisite: Junior standing

Deals with understanding and measuring public opinion. Emphasis is placed on critically analyzing the historical origins and the dynamics of public opinion in the policymaking process as well as the role of the news media in public opinion. Students then measure people's thinking on any given issue or issues.

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JN 446 Advanced Reporting

3c-01-3sh

Prerequisite: JN328 (C or better), instructor permission

Will explore theoretical and practical issues in information gathering, with emphasis on data analysis and computer-assisted reporting for public affairs journalism. Students will apply scientific methods in news reporting and analyze the effects of precision journalism on society. (Offered as JN346 prior to 1994-95)

JN 450 Advertising Writing

3c-01-3sh

Prerequisite: JN220, instructor permission

This is a basic course in the preparation of advertising copy and continuity for all media. It is a combination of lecture and laboratory course. Enrollment is limited to fifteen upperclass majors per semester. (Offered as JN350 prior to 1994-95)

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JN 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

These courses vary from semester to semester, covering a number of journalism specialties. From time to time they are converted to permanent course numbers. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

JN 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office
Opportunities for independent study that goes beyond the usual classroom activities. Approval is based on academic appropriateness and availability of resources; enrollment is limited to fifteen upperclass majors per semester.

JN 490 Public Relations II

3c-01-3sh

Prerequisite: JN220, JN326

A public relations writing class that includes assignments such as releases, features, newsletters, reports, biographies, rewrites, hometown stories, copyediting, interviewing, research, and special projects. (Offered as JN390 prior to 1994-95)

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JN 491 Presentation Making

3c-01-3sh

Prerequisite: JN220, JN326

Gives the student practice in writing and making oral presentations based on public relations cases and problems. Familiarizes the student with problem-solving and small-group communication skills necessary for those working in the area of public affairs. (Offered as JN391 prior to 1994-95)

JN 492 Problem-solving in PR

3c-01-3sh

Prerequisite: JN328

Introduces students to techniques for analyzing and tracking information flow in organizations. Introduces students to creative problem-solving techniques which are standard practice in corporate research groups. (Offered as JN392 prior to 1994-95)

JN 493 Internship

var-6-12sh

Prerequisites: JN102, JN105, JN220, JN328, department approval

On-the-job training opportunities in journalism and related areas. Maximum of 6sh may be applied to 30sh minimum of major.

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JN 494 Document Design II

3c-01-3sh

Prerequisite: JN 328, JN393

Gives students advanced work in preparation of substantial corporate and government documents such as annual reports, lengthy project reports, and research reports, etc. Emphasizes skills in research of public and government documents, data analysis and problem solving, holistic information display, writing, and editing. (Offered as JN394 prior to 1994-95)

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Latin

Department of Spanish and Classical Languages
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[LA101](#) [LA102](#) [LA201](#) [LA281](#) [LA351](#) [LA352](#) [LA361](#) [LA362](#) [LA371](#) [LA481](#) [LA482](#)

LA 101 Elementary Latin I

4c-0l-4sh

For beginning students. Emphasis is on oral and reading skills. Students will learn most of the Latin noun system; they will also learn how to answer simple and moderately difficult Latin questions. There are also short readings in easy Latin. Students learn significant differences between Latin and English. Attendance is required.

LA 102 Elementary Latin II

4c-0l-4sh

A continuation of Latin 101. In grammar, students finish the noun system and learn several Latin tenses, including the perfect tense. Latin questions, oral and written, remain an important part of the course, as do the readings. There are class discussions and a paper on readings in English from Sophocles, Tacitus, and Cicero. Attendance is required.

LA 201 Intermediate Latin

4c-0l-4sh

More of the verb system is learned; while grammatical studies continue, more emphasis is placed on learning how to read short, intermediate-level selections from Latin literature. Oral and written questions continue. Ovid's *Metamorphoses* is the topic for class discussion and a paper. Liberal Studies credit is given.

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LA 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

LA 351 Advanced Latin I

3c-0l-3sh

Reviews grammar in-depth; analyzes the structure of the language. Written themes are not required. Selections from Latin prose are read for knowledge of their content and for developing knowledge of the structure of the language. Offered only by individualized instruction.

LA 352 Advanced Latin II

3c-01-3sh

Continuation of Latin 351. Selections are from poetry this semester.

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LA 361 Development of Roman Culture and Literature

3c-01-3sh

Latin poetry and history will be read to show the influence of political and social ideas on literature; emphasis will be on the contrast between the Republican and Imperial periods. Some reading will be in Latin; most will be in English. Offered only by individualized instruction.

LA 362 Latin Conversation and Composition

3c-01-3sh

Aims at the ability to speak Latin on a conversational level and to write grammatically correct Latin prose. Offered only by individualized instruction.

LA 371 Survey of Latin Literature I

3c-01-3sh

Comprehensive view of Latin literature from Ennius through the Augustan Age. Offered only by individualized instruction.

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LA 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

LA 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
An opportunity to engage in an in-depth analysis of some topic dealing with the Latin language and culture through consultation with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Learning Center

The Learning Center Student Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[LC070](#) [LC075](#) [LC090](#) [LC095](#) [LC150](#) [LC160](#) [LC170](#)

LC 070 Reading Skills for College Study

3c-0l-3sh

This course is designed to assist students in the development of college-level reading skills with emphasis on textbook reading. Includes literal and critical comprehension skills, vocabulary development, and reading efficiency. This course carries institutional, nondegree credit, and attendance is required.

LC 075 Reading and Study Skills Applications

1c-0l-1sh

Prerequisite: LC permission

Assists students in the applications of college-level reading and study skills to content-area coursework. Intended for freshman students in poor academic standing who need additional and individualized guidance in the transfer of learning strategies into day-to-day reading and coursework. Students will participate in small-group instruction, as well as individual appointments with the instructor. This course carries institutional, nondegree credit, and attendance is required.

LC 090 Introduction to College Math I

3c-0l-3sh

Prerequisite: A student may not register for this course after successfully completing any course offered by the mathematics department without the written approval of the Learning Center director

Reviews basic computational skills and their applications. Includes operations with whole numbers, decimals, and fractions; the concepts of ratios, proportions, and percents; basic geometric principles; and an introduction to algebra. This course carries institutional, nondegree credit, and attendance is required.

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LC 095 Introduction to College Math II

3c-0l-3sh

Prerequisite: A student may not register for this course after successfully completing any course offered by the mathematics department, without written approval of the Learning Center director

Introduces beginning algebraic concepts, including signed numbers; rules and properties of equations; exponents; polynomials; factoring; algebraic fractions; graphs and linear equations, inequalities, and radical expressions. This course carries institutional, nondegree credit, and attendance is required.

LC 150 Educational Planning

1c-0l-1sh

Introduces students to the system of higher education and to skills that promote effective educational planning and decision making. Includes the topics of history and purposes of higher education and its changing curricula; models for, and variables to consider in, decision making, goal setting, and educational planning. Note: Certain sections of this course will be restricted to specific enrollment groups. (Offered as ED150 prior to 1997-98)

LC 160 Learning Strategies

1c-0l-1sh

Assists students to develop and use effective and efficient study strategies on a consistent basis. Students will examine their academic goals and implement study strategies to help achieve those goals. Includes the topics of goal setting and self-monitoring, learning styles, test preparation and test taking, lecture and textbook note taking, time management and concentration, and general strategies for learning. Students will be required to give evidence of application of the study strategies to other courses in which they are currently enrolled. Active participation in class meetings is expected. Note: Certain sections of this course will be restricted to specific enrollment groups. (Offered as ED160 prior to 1997-98)

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LC 170 Career Exploration

1c-0l-1sh

Introduces students to the theoretical and practical framework with which to explore careers compatible with overall academic skills, aptitudes, and life goals. Students will examine the world of work, assess their interests and abilities, and make realistic decisions on academic majors and careers. Note: Certain sections of this course will be restricted to specific enrollment groups. (Offered as ED170 prior to 1997-98)

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Liberal Studies

Liberal Studies Program Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[LS499](#)

LS 499 Senior Synthesis

3c-0l-3sh

Prerequisite: 73 or more semester hours earned

This course helps students understand and handle complex intellectual and social issues from multiple perspectives. A selection of topics, available each semester and summer session, is announced and described in the undergraduate course schedule. Students should schedule the course during the senior year or at least no earlier than the last half of the junior year. In order to broaden their experiences, students are encouraged to enroll in synthesis sections taught by instructors outside of the students' major fields.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Library

The University Libraries Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[LB151](#) [LB201](#) [LB281](#) [LB481](#)

LB 151 Introduction to Library Resources

var-1sh

A lecture/laboratory course (fourteen one-hour classes) which provides an introduction to the resources of a university library, how those resources are organized, and how to use those resources effectively.

LB 201 Internet and Multimedia

3c-0l-3sh

Prerequisite: BE/CM/CO/IM 101 or prior exposure to word processing and electronic mail

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BE/CM/CO/IM/LB 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

LB 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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LB 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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Management

Department of Management Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MG275](#) [MG281](#) [MG300](#) [MG305](#) [MG310](#) [MG311](#) [MG325](#) [MG330](#) [MG334](#) [MG350](#) [MG351](#) [MG400](#) [MG401](#) [MG402](#) [MG403](#) [MG406](#) [MG428](#) [MG432](#) [MG437](#) [MG452](#) [MG454](#) [MG459](#) [MG481](#) [MG482](#) [MG492](#) [MG493](#) [MG495](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

MG 275 Introduction to Entrepreneurship

3c-0l-3sh

Prerequisites: AG201, EC121, sophomore status, only for nonmajors, permission by department

Entrepreneurship is defined, common myths are discussed, and characteristics of entrepreneurs are identified. Basic characteristics of entrepreneurs are reviewed. This course includes topics such as the psychology of entrepreneurship; economic and social aspects of entrepreneurship; history; techniques of purchasing a company; new venture initiation; and risk taking.

MG 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

MG 300 Human Resource Management

3c-0l-3sh

Prerequisite: PC101

Designed to recognize and evaluate the application of behavioral science approaches in the study of human resource management. Topics include recruiting and selection, training, management development, performance evaluation, communications, wage and benefit programs, and management-labor relations.

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MG 305 Organizational Staffing

3c-0l-3sh

Prerequisites: MG300, MA214

Focuses on the theoretical, technical, administrative, and legal issues involved in the recruitment, selection, placement, and promotion of individuals by organizations. Topics covered include human resource planning, job analysis, job description and specifications, recruitment, selection process, equal employment opportunity and affirmative action, reliability and validity of selection instruments and techniques, and contemporary issues in selection.

MG 310 Principles of Management

3c-01-3sh

Provides the student with an in-depth identification and understanding of the relevant theories, concepts, and principles underlying the management function.

MG 311 Human Behavior in Organizations

3c-01-3sh

Prerequisite: PC101

Human problems of management. Basic ideas and theories from the behavioral sciences as they apply to human behavior in organizations are presented. Management solutions to problems resulting from individual-organization interaction are emphasized.

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MG 325 Small Business Management

3c-01-3sh

Prerequisites: MG275, MK320, MG310

A survey course emphasizing those aspects of small business management not covered elsewhere in the student's program. Key topics include Real Estate, Site Selection, and Facilities Management; Purchasing Management, Vendor Relations, and Inventory Systems; Plant Security, Loss Control, Risk and Insurance Management; Human Resources Management, Employee Benefits, Motivation, and Leadership; Small Business Market Research, Customer Services Management, and Pricing. A review of other elements of the small firm's milieu is included as a necessary contextual element (e.g., planning, accounting, financing, law).

MG 330 Production and Operations Management

3c-01-3sh

Prerequisites: MA121, MA214, junior status, Eberly College of Business or approved major

Study of the process of converting an organization's inputs into outputs whether in goods-producing or service industries. Provides an overview of concepts, tools, and techniques used in management of production and operations function in organizations.

MG 334 Quality Management

3c-01-3sh

Prerequisite: MG330

Emphasizes the philosophy that quality is an organizationwide phenomenon that influences every aspect of its operations. An overview of current quality management philosophies and tools and techniques for managing quality in manufacturing and services.

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MG 350 International Business

3c-01-3sh

Prerequisite: MG310

A study of the international dimensions of business and the critical environmental and organizational factors that affect managerial approaches in the international arena. Focuses upon the management problems stemming from the movement of goods, human resources, technology, finance, or ownership across international boundaries. (Also offered as MK350)

MG 351 International Management

3c-0l-3sh

Prerequisite: MG310

Provides the student with a general foundation on managing multinational corporations (MNCs). Examines the macro- and structural-level issues of MNCs. Focuses on planning, organization structure, managerial decision making, and human resource management in global structures and differences between MNCs and domestic organizations.

MG 400 Compensation Management

3c-0l-3sh

Prerequisite: MG300

Studies the policies and programs that help managers design and administer compensation systems for private and public sector enterprises. Includes motivation theories and practice designing of compensation systems. (Title was Wage and Salary Administration prior to 1994-95.)

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MG 401 Management Development and Training

3c-0l-3sh

Prerequisites: MG300, MG310

Principles, problems, and procedures in planning, organizing, directing, and controlling all aspects of training and development programs in a business enterprise. Methods of improving and development of managerial skills are emphasized.

MG 402 Seminar in Human Resource Management

3c-0l-3sh

Prerequisites: MG300, graduating senior

An integrative course in Human Resource Management. Considers current issues in human resource management literature and contemporary topics in the human resource management field using case studies.

MG 403 Small Business Planning

3c-0l-3sh

Prerequisites: MG325, AG300, IM101 or BE101 or CO101

Integrates the content of much of the business core and relates it to the business planning for small businesses and entrepreneurial efforts. The student will be introduced to the concepts which will support the development of an effective business plan.

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MG 406 Human Resources Management Research

3c-0l-3sh

Prerequisites: QB215, MG300

Study of the nature of research questions, research methods, research design, collection, analysis, and interpretation of data. Focuses on design, development, implementation, and evaluation of Human Resources Management programs. Applications in employee selection, performance measurement, work attitudes and motivation, employee training, and development areas.

MG 428 Seminar in Management

3c-0l-3sh

Prerequisites: MG310

An integrative course in management. Considers current literature in the field and contemporary issues in management using case studies.

MG 432 Business and Society

3c-01-3sh

Overview of the interactions between business and the larger social system in which it operates. Considers the problem, solutions, and future directions of societal issues and their relationships to the business environment. Topics discussed include consumerism, the morality of advertising, self-regulation, pollution and ecology, overpopulation, government regulation, and the social and ethical responsibilities of business and industry. (Also offered as MK432; may not be taken for duplicate credit)

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MG 437 Operations Management System

3c-01-3sh

Prerequisite: MG330

Theoretical and practical understanding of manufacturing and service planning and control, including systems modeling, purchasing and sourcing, information and control including MPS, MRP, and MRP-II, scheduling, etc. Manufacturing and service technologies and trends are also emphasized. Computer applications are used for understanding the interrelationships between various components of operations system.

MG 452 Comparative Management

3c-01-3sh

Prerequisite: MG350

Study of the similarities and differences among managers, management practices, and organizations in different cultures. A variety of comparative management systems, models, and theories are presented, and research findings are examined.

MG 454 International Competitiveness

3c-31-3sh

Prerequisite: MG350

Study of the most important challenges that face nations and firms alike in gaining or restoring competitiveness. Focuses on factors that determine the success of nations and their firms in highly dynamic world markets. Various theories, models, and cases dealing with competitive advantage are examined.

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MG 459 Seminar in International Management

3c-01-3sh

Prerequisites: MG454, senior standing

Analysis of recent literature and developments related to global business issues such as strategic alliances, human resource management in global environments, global assignments, Japanese business system, multinational corporations in the world economy.

MG 481 Special Topics in Management

var-1-3sh

Covers advanced, innovative, or exploratory topics and disciplines within management. Specific content items developed by instructor. Credits may be applied to either required (by permission of department chairperson) or free electives in a student's program.

MG 482 Independent Study

var-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office
Individual research and analysis of contemporary problems and issues in a concentrated area of study under the

guidance of a senior faculty member. Approval is based on academic appropriateness and availability of resources.

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MG 492 Small Business/Entrepreneurship Internship

var-3-12sh

Prerequisites: MG403, permission of department chairperson, 2.75 overall QPA, all other requirements of the Eberly College of Business

This course involves practical entrepreneurial experience of on-site consulting with small business firms. Students will generally work for a semester on functionally related topics in accounting, finance, marketing, and MIS or on general topics such as business planning, forecasting, policy, and general management.

MG 493 Management Internship

var-3-12sh

Practical experience to develop knowledge and skills in the application of theory to actual problems in a nonclassroom setting. A maximum of 3sh of internship in the student's major may be applied toward the management and human resource management major area elective requirements. Additional internship credit must be used as free electives only. Admission only by permission of the department chairperson and dean, Eberly College of Business.

MG 495 Business Policy

3c-01-3sh

Prerequisites: Completion of all Business Core requirements or permission; graduating seniors

A capstone case analysis course designed to give the student practice in applying business theories to the solution of management problems. An analysis of how top management determines strategy and policy and influences the philosophy and character of the company. To develop in the student a general management viewpoint that integrates the various functions of the organization.

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Marine Science Marine Science Consortium/Biology Department

College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MI110](#) [MI211](#) [MI212](#) [MI221](#) [MI241](#) [MI250](#) [MI260](#) [MI270](#) [MI280](#) [MI281](#) [MI331](#) [MI342](#) [MI343](#) [MI344](#) [MI345](#) [MI362](#)
[MI364](#) [MI420](#) [MI431](#) [MI459](#) [MI481](#) [MI482](#) [MI500](#)

MI 110 Introduction to Oceanography

var-3sh

Introduction to physical, chemical, biological, and geological aspects of oceans and methods and techniques of oceanography. Lab emphasis placed on at-sea assignments.

MI 211 Field Methods in Oceanography

var-3sh

Prerequisite: MI110 or consent of instructor

Familiarization with dynamic marine environment involving use and application of oceanographic instruments and sampling devices.

MI 212 Navigation

var-3sh

Prerequisite: Four years' high school math or equivalent or consent of the instructor

Covers navigation, i.e., the art and science of safely bringing a vessel from one position to another in a body of water. Course divided into (1) brief historical background; (2) navigation within sight of land, i.e., piloting; (3) navigation in the open sea, including electronic navigation methods.

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MI 221 Marine Invertebrate Zoology

var-3sh

Prerequisite: One year of biology or consent of instructor

Study of marine invertebrates with emphasis on development, reproduction, structure, function, and classification of selected marine organisms.

MI 241 Marine Biology

var-3sh

Study of plant and animal life in marine environment with emphasis placed upon physical and chemical factors affecting biota. Botany and zoology or consent of instructor

Study of plant and animal life in marine environment with emphasis placed upon physical and chemical factors affecting biota.

MI 250 Management of Wetland Wildlife

var-3sh

The ecology and management of wetland wildlife, particularly of freshwater marshes and saltwater marshes. Special emphasis on ecosystem approach.

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MI 260 Marine Ecology

var-3sh

Prerequisite: One year of biology or consent of instructor

A course in ecology of marine organisms.

MI 270 Scuba Diving

var-3sh

Prerequisites: Swimming ability and good health. (A standard diving physical form will be mailed to students electing the course.)

Students who complete course will receive a National Association of Underwater Instructors Diver Certificate.

MI 280 Marine Field Biology

var-3sh

Prerequisites: None

An introduction to basic principles of ecology and natural history of selected plants and animals in terrestrial, freshwater, and marine environments. Suitable for non-Science majors.

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MI 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

MI 331 Chemical Oceanography

var-3sh

Prerequisites: MI110 and one year of chemistry

Treatment of oceanic chemical phenomena by sampling and laboratory analysis techniques.

MI 342 Marine Botany

var-3sh

In-the-field studies and laboratory analysis by instrumentation of marine and marine fringe plants in the Middle Atlantic Coast as exemplified by those found in the Cape Henlopen, Delaware, and Wallops Island, Virginia, areas.

MI 343 Marine Ichthyology

var-3sh

Prerequisites: General Biology and/or consent of the instructor

A study of fishes. Specimens collected along Eastern Seaboard by students will be used to illustrate anatomy, physiology, and systematics of this major vertebrate group. Field collections will give student opportunity to observe relationships of these animals to the biotic and physical environment.

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MI 344 Anatomy of Marine Chordates

var-3sh

Prerequisite: Six hours of biology including General Zoology

Designed to familiarize students with various aspects of marine chordates.

MI 345 Marine Ornithology

var-3sh

Prerequisite: One year of biology or consent of the instructor

Introduces student to avian fauna of seacoast and enables comparison with inland species. In addition to field work providing visual and vocal identification, lecture material will include information on distribution, behavior, physiology, and anatomy of birds.

MI 362 Marine Geology

var-3sh

Prerequisites: MI110 and physical geology or consent of instructor

Studies of structural and sedimentary environments of continental shelf, slopes, and ocean basins and crustal structure of the earth and its relation to sedimentary record and geologic history of oceans.

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MI 364 Physical Oceanography

var-3sh

Prerequisites: MI110, one year of physics, one semester of calculus, and permission of the instructor

Course includes consideration of physical properties, mass and energy budgets, theory of distribution of variables; cause, nature, measurement, analysis, and prediction of tides, currents, and waves; and basic instrumentation in the field.

MI 420 Marine Micropaleontology

var-3sh

Prerequisites: One year of geology and biology or consent of instructor

Deals with modern, living representatives of microorganisms important in fossil record with particular emphasis placed on taxonomy, morphology, evolution, and ecologic affinities of representative groups.

MI 431 Ecology of Marine Plankton

var-3sh

Prerequisite: One year of biology

Study of phytoplankton and zooplankton in marine and brackish environments. Qualitative and quantitative comparisons made between the planktonic populations of various types of habitats in relation to primary and secondary productivity.

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MI 459 Coastal Geomorphology

var-3sh

Prerequisite: One year of geology

A study of coastal geomorphology with emphasis on Late Cenozoic and Pleistocene sea-level changes in response to worldwide continental glaciation. The student will participate in field studies of Pleistocene deposits and the weathering of these deposits.

MI 481 Special Topics

var-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

MI 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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MI 500 Problems in Marine Science

var-3sh

Graduate students or undergraduate students with advanced standing registering for this course may elect either of the following options.

- Option A: Take a 200, 300, or 400 level MI course and complete, in addition to regular course requirements, a project in the area under direction of instructor.
- Option B: Complete an independent research project. A research proposal must be approved by the Academic Committee of M.S.C. in advance of the time research is to be undertaken.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Marketing

Department of Marketing
Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MK320](#) [MK321](#) [MK350](#) [MK420](#) [MK421](#) [MK422](#) [MK430](#) [MK431](#) [MK432](#) [MK433](#) [MK434](#) [MK481](#) [MK482](#) [MK493](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

MK 320 Principles of Marketing

3c-0l-3sh

Prerequisite: EC122

Study of those activities necessary to the design, pricing, promotion, and distribution of goods and services for use by organizations and ultimate consumers.

MK 321 Consumer Behavior

3c-0l-3sh

Prerequisites: MK320 and PC101

Survey of noteworthy contributions of behavioral science and research on consumer purchasing and decision-making process, with particular attention to formal and informal influence patterns.

MK 350 International Business

3c-0l-3sh

Prerequisite: MG310

A study of the international dimensions of business and the critical environmental and organizational factors that affect managerial approaches in the international arena. Focuses upon the management problems stemming from the movement of goods, human resources, technology, finance, or ownership across international boundaries. (Also offered as MG350)

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MK 420 Marketing Management

3c-0l-3sh

Prerequisites: MK320 and MK321

Analysis of marketing and operational problems and policies involved in planning, organizing, coordinating, and controlling a total marketing program.

MK 421 Marketing Research

3c-0l-3sh

Prerequisites: MK320 and QB215

Nature, methods, analysis, and application of present-day marketing research techniques utilized in the solution of practical marketing problems.

MK 422 Seminar in Marketing

3c-0l-3sh

Prerequisites: MK420 and MK421, graduating senior

A terminal course designed for majors in marketing; considers current literature in the field, case problems pertaining to the total marketing effort, and current problems of actual companies.

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MK 430 International Marketing

3c-0l-3sh

Prerequisite: MK320

International marketing and markets are analyzed. Special consideration is given to the significance of government regulations; organization structures of export and import enterprises; and credit policies.

MK 431 Industrial Marketing

3c-0l-3sh

Prerequisite: MK420

Concerned with the major activities involved in the marketing of industrial goods and services, including the industrial marketing system, marketing information needs of the industrial firm, industrial marketing implementation and control, and channel, pricing, product, and promotional strategies for industrial goods.

MK 432 Business and Society

3c-0l-3sh

Overview of the interactions between business and the larger social system in which it operates. Considers the problems, solutions, and future directions of societal issues and their relationships to the business environment. Topics discussed include consumerism, the morality of advertising, self-regulation, pollution and ecology, overpopulation, government regulation, and the social and ethical responsibilities of business and industry. (Also offered as MG432; may not be taken for duplicate credit)

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MK 433 Advertising

3c-0l-3sh

Prerequisite: MK320

Introduction to the principles, practices, and creations of advertising. Use of various media and legal, economic, social, and ethical aspects of advertising are also considered.

MK 434 Marketing Logistics

3c-0l-3sh

Prerequisites: Junior/senior standing, MK320 and MG330

The focus of this course is on planning, organizing, and controlling the marketing logistics function. In addition to the acquisition and application of management science methods, students will integrate and apply previously gained knowledge to analyze and solve complex marketing logistics problems. Areas of major concentration include facility location, transportation, inventory management, and customer service.

MK 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Covers advanced, innovative, or exploratory topics and disciplines within marketing. Specific content items developed by instructor. Credits may be applied to either required (by permission of departmental chairperson) or free electives in a student's program. Special topics numbered 481 are primarily for upper-level undergraduate students.

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MK 482 Independent Study

var-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office.

Approval is based on academic appropriateness and availability of resources.

Individual research and analysis of contemporary problems and issues in a concentrated area of study under the guidance of a senior faculty member.

MK 493 Marketing Internship

var-3-12sh

Practical experience in the marketing field to develop knowledge and experience in the practical application of theory to actual problems in a nonclassroom situation. A maximum of 3sh of internship in the student's major may be applied toward the marketing major-area elective requirements. Additional internship credit must be used as free electives only. Admission only by permission of the department chairperson and the dean, Eberly College of Business.

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Mathematics

Department of Mathematics
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MA100](#) [MA101](#) [MA110](#) [MA117](#) [MA121](#) [MA122](#) [MA123](#) [MA124](#) [MA127](#) [MA128](#) [MA151](#) [MA152](#) [MA171](#) [MA214](#)
[MA216](#) [MA217](#) [MA219](#) [MA227](#) [MA241](#) [MA271](#) [MA281](#) [MA317](#) [MA320](#) [MA342](#) [MA350](#) [MA353](#) [MA355](#) [MA363](#)
[MA364](#) [MA366](#) [MA371](#) [MA417](#) [MA418](#) [MA420](#) [MA421](#) [MA422](#) [MA423](#) [MA424](#) [MA425](#) [MA427](#) [MA445](#) [MA446](#)
[MA447](#) [MA451](#) [MA452](#) [MA453](#) [MA454](#) [MA456](#) [MA457](#) [MA458](#) [MA459](#) [MA460](#) [MA465](#) [MA471](#) [MA476](#) [MA477](#)
[MA481](#) [MA482](#) [MA490](#) [MA493](#)

MA 100 Intermediate Algebra

3c-0l-3sh

Note: A student may not take MA100 after successfully completing MA110 or a calculus course without the written approval of the mathematics department chairperson

A basic course in algebra including factoring, exponents and radicals, systems of linear equations, complex fractions, and inequalities. Designed for those students who lack the basic algebraic skills required in MA110 Elementary Functions. This course will not meet Liberal Studies math requirements. (Title was Basic Algebra prior to 1995-96.)

MA 101 Foundations of Mathematics

3c-0l-3sh

Introduces logic and mathematical way of analyzing problems; develops an appreciation for nature, breadth, and power of mathematics and its role in a technological society; and introduces useful mathematics or mathematics related to student interest. Possible topics include logic, problem solving, number theory, linear programming, probability, statistics, intuitive calculus, introduction to computers, mathematics of finance, game theory.

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MA 110 Elementary Functions

3c-0l-3sh

Note: A student may not take MA110: after successfully completing a calculus course without the written approval of the mathematics department chairperson.

For students not prepared to begin the study of calculus; topics include polynomial, exponential, logarithmic, and trigonometric functions.

MA 117 Principles of Mathematics

3c-0l-3sh

This course is an introduction to the nature of mathematics, designed specifically as a first course for mathematics education majors to experience several facets of mathematics including deduction, induction, problem solving, discrete mathematics, and theory of equations. Enrollment open to secondary mathematics education majors only.

MA 121 Calculus I for Business, Natural, and Social Sciences

4c-0l-4sh

Note: A student may not take MA121 after successfully completing another calculus course without the written permission of the mathematics department chairperson.

Prerequisite: MA110 or equivalent high school preparation

Introduces non-Math major to analytic geometry, elementary functions (including logarithmic and exponential functions), central ideas of the calculus (limit, derivative, and integral), applications of derivatives to business, social, and natural sciences.

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MA 122 Calculus II for Business, Natural, and Social Sciences

4c-0l-4sh

Applications of integrals to business, natural, and social sciences, functions of several variables, trigonometric functions, sequences and series, numerical methods, differential equations.

MA 123 Calculus I for Physics and Chemistry

4c-0l-4sh

Prerequisites: High school algebra, geometry, and trigonometry

Functions, limits, continuity, derivatives, application of the derivative, integral, and applications of the integral. (Trigonometric and inverse trigonometric functions are included throughout the course.)

MA 124 Calculus II for Physics and Chemistry

4c-0l-4sh

Logarithmic and exponential functions, techniques of integration, sequences and series, differential calculus of functions of several variables, multiple integrals, line integrals, surface integrals, differential equations with application to physical problems.

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MA 127 Calculus I

4c-0l-4sh

Prerequisite: Permission of the mathematics department

The first in a three-course series of courses which stresses the theory of the calculus as well as the application in problem solving. Topics to be included are real numbers, an introduction to analytic geometry, functions, limits and continuity, derivatives and applications, the differential and antidifferentiation.

MA 128 Calculus II

4c-0l-4sh

Prerequisite: Permission of the mathematics department

The second in a three-course series of courses stresses the theory of calculus as well as the application in problem solving. Topics to be included are definite integrals and applications, logarithmic and exponential functions, trigonometric and inverse trigonometric functions, polar coordinates, hyperbolic functions, indeterminate forms, improper integrals, and Taylor's formula.

MA 151 Elements of Mathematics I

3c-0l-3sh

Topics included are sets, concepts of logic, mathematical systems, systems of numeration, developing the set of integers, rational numbers, and real numbers.

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MA 152 Elements of Mathematics II

3c-0l-3sh

Prerequisite: MA151

Topics included are sentences in one variable, sentences in two variables, nonmetric geometry, metric geometry, coordinate geometry, introduction to statistics and probability, computers, and calculators.

MA 171 Introduction to Linear Algebra

3c-0l-3sh

Introduction to vector spaces, linear transformations, determinants, and matrix algebra. Topics are presented in a direct and intuitive approach.

MA 214 Probability and Statistics for Business Majors

3c-0l-3sh

Designed to introduce the study of probability theory, discrete random variables and probability distributions, empirical frequency distributions, theoretical frequency distributions, statistical investigations and sampling, and sampling distributions.

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MA 216 Probability and Statistics for Natural Sciences

4c-0l-4sh

Prerequisite: MA121

Frequency distributions, measures of central tendency and variation, probability, probability distributions, sampling distributions. Hypothesis testing for means, variances, proportions. Correlation and prediction, regression, analysis of variance, and nonparametric statistics. Emphasis on applications.

MA 217 Probability and Statistics

3c-0l-3sh

(For non-Math majors) Frequency distributions, measures of central tendency, variation, elementary probability, sampling, estimation, testing hypotheses, correlation, and regression; emphasis on applications as opposed to theoretical development of topics.

MA 219 Discrete Mathematics

3c-0l-3sh

Prerequisites: CO110, and MA 123, 127, or 122

Topics include set algebra, mappings, relations, semigroups, groups, directed and undirected graphs, Boolean algebra, and propositional logic, with examples and applications of these to various areas of computer science. Emphasis placed on developing an intuitive understanding of basic structures rather than formal theories and influence of these topics on theory and practice of computing.

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MA 227 Calculus III

4c-0l-4sh

Prerequisite: Permission of the mathematics department

The third in a three-course series of courses which stresses the theory of calculus as well as the application in problem solving. Topics to be included are vectors in the plane, parametric equations, vectors in three-dimensional space, solid analytic geometry, differential calculus of functions of several variables, directional derivatives, gradients, applications of partial derivatives, and infinite series.

MA 241 Differential Equations

3c-01-3sh

Prerequisites: MA122, MA124, or MA227

Emphasis is placed on techniques of solution and elementary physical applications. A thorough study is made of differential equations classified as order one-degree one, linear, and nonhomogeneous. Solution techniques involving reduction of order techniques, the differential operator, and infinite series are introduced.

MA 271 Introduction to Algebraic Structures

3c-01-3sh

Prerequisite: MA171

Gives student basic ideas of contemporary mathematics. Includes mathematical logic, algebra of sets, equivalence relations and partitions of sets, functions, and fundamentals of group theory. Methods of proof in area of abstract mathematics.

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MA 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

MA 317 Introduction to Probability and Statistics

3c-01-3sh

Prerequisites: MA152, Elementary Education concentration

Introduces students to elementary concepts of probability and statistics which will enable them to analyze data, make predictions, and determine which concepts may be used with children.

MA 320 Mathematics for Early Childhood

3c-01-3sh

Prerequisites: MA151, Early Childhood major

This course studies child-centered, activity-oriented mathematics programs for early childhood education. The course focuses on helping children develop understanding and insight into basic concepts of mathematics through the use of manipulative materials. Topics include pre-number activities, number activities, numeration, operations on whole numbers, estimation, rational numbers, geometry, measurement, probability, statistics, and problem solving. (Offered as MA450 prior to 1994)

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MA 342 Advanced Mathematics for Applications

4c-01-4sh

Prerequisite: MA241

Deals with the application of mathematics to problems of science. Emphasis is placed on the three phases of such an application and on the development of skills necessary to carry out each step: (a) translation of the given physical information to a mathematical model; (b) treatment of the model by mathematical methods; (c) interpretation of the mathematical result in physical terms. Topics included are vector calculus, integral theorems, Fourier series, partial differential equations, and the Laplace transformation.

MA 350 History of Mathematics

2c-01-2sh

Prerequisite: Completion of a calculus sequence or permission of the instructor
The history of mathematics is concerned with the origins, philosophy, and development of the mathematical sciences.

MA 353 Theory of Numbers

3c-0l-3sh

Prerequisite: MA271 with a C or better grade

Divisibility, congruences, primitive roots, number theoretic functions, diophantine equations, continued fractions, quadratic residues.

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MA 355 Foundations of Geometry I

3c-0l-3sh

Prerequisites: MA171, MA271 with a C or better grade

Studies various groups of transformations and geometries associated with these groups in the Euclidean plane. The Euclidean Similarity and affine and projective groups of transformations are studied.

MA 363 Mathematical Statistics I

3c-0l-3sh

Prerequisites: MA122, MA124, or MA227

Probability theory necessary for an understanding of mathematical statistics is developed. Applications of set theory to models, combinations and permutations, binomial, Poisson and normal distributions, expected values, and moment generating functions.

MA 364 Mathematical Statistics II

3c-0l-3sh

Prerequisite: MA363

Multivariate distributions, change of variable technique, chi-square distribution, estimation, confidence intervals, hypothesis testing, contingency tables, goodness of fit. Practical applications are used to aid in the development.

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MA 366 Preparation for Actuarial Examinations

1c-0l-1sh

Prerequisites: MA171 and calculus sequence

This course provides an introduction to the actuarial profession and helps the student prepare for the first actuarial examinations. The examination preparation consists of studying sample actuarial examinations and related material. The student is required to take the actuarial examination. The student should be aware that for most students, considerable study beyond the requirements of this one-credit course will be required in order to pass the actuarial examinations.

MA 371 Linear Algebra

3c-0l-3sh

Prerequisites: MA171, MA271 with a C or better grade

Vector spaces and linear transformations are studied in a theoretical setting. Also, canonical forms and multilinear algebra are studied.

MA 417 Statistical Applications

3c-0l-3sh

Prerequisites: MA214, MA216, or MA217 (For non-Math majors)

Using computer programs, a wide array of statistical procedures for educational research workers will be explored. Basic concepts of statistical inference and prediction will be reviewed, including regression analysis and prediction, hypothesis testing, analysis of variance and covariance, and partial and multiple correlation. Emphasis is on use of the computer and interpretation of computer printouts, along with understanding techniques employed. No computer knowledge is necessary.

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MA 418 Sampling Survey Theory and Its Application

3c-01-3sh

Prerequisites: (For non-Math majors) MA214, 216, or 217

Directed to the student who is or will be doing quantitative research, commissioning large-scale surveys, and evaluating the results. Sampling techniques and statistical principles underlying their use will be introduced. Consideration to the practical problems associated with implementation.

MA 420 Pre-Calculus Mathematics I

3c-01-3sh

Prerequisites: MA152; Elementary Education concentration

Examines the function concept as applied to elementary real number functions and graphing techniques for these functions. Topics include real number functions such as absolute value, step, linear, quadratic, and other polynomial functions, trigonometric and other periodic functions, exponential logarithmic functions, and all other inverse functions. Students will examine curricular materials that develop function concepts in Grades K-8.

MA 421 Advanced Calculus I

3c-01-3sh

Prerequisites: MA124 or MA227, MA271 with a C or better grade

Study of set theory, real number system, functions topology of Cartesian space, sequences, convergence and uniform convergence, continuity, and uniform continuity.

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MA 422 Advanced Calculus II

3c-01-3sh

Prerequisite: MA421

Includes the study of convergence sequences in \mathbb{R}^n , global properties of continuity, uniform continuity, differentiation of \mathbb{R}^n , Riemann integrals, and infinite series.

MA 423-424 Complex Variable I and II

each 3c-01-3sh

Prerequisite: MA124 or MA227

Introduction to the theory of functions of a complex variable: topics included are elementary functions, analytic functions, conformal mapping, integration, series, and application.

MA 425 Applied Mathematical Analysis I

3c-01-3sh

Prerequisites: Calculus sequence, introductory linear algebra, or permission of instructor

This course provides the necessary background for an understanding of mathematical programming, proofs of convergence of algorithms, convexity, and factorable functions. It also develops necessary concepts in matrix theory which are required to develop efficient algorithms to solve linear and nonlinear programming models.

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MA 427 Introduction to Topology

3c-0l-3sh

Prerequisite: MA271 with a C or better grade

Study of sets, functions, continuity, compactness, the separation axioms, and metric spaces; application of topology to analysis is demonstrated.

MA 445 Programming Models in Operations Research

3c-0l-3sh

Prerequisites: Two-semester sequence of calculus and MA 171 or permission of instructor

Development of deterministic mathematical models for managerial and social sciences with relevant computational techniques.

MA 446 Probabilistic Models in Operations Research

3c-0l-3sh

Prerequisites: Two-semester sequence of calculus, MA363

Development of probabilistic mathematical models for managerial and social sciences with relevant computational techniques.

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MA 447 Simulation Models

3c-0l-3sh

Prerequisites: Completion of the calculus sequence; background in statistics and probability, and familiarity with concepts of programming (knowledge of a particular programming language not required)

This course considers the types of models that are basic to any simulation and methods for building and using such models. It includes discrete and continuous system simulations, their applications, and an introduction to SLAM II (Simulation Language for Alternative Modeling).

MA 451 Numerical Methods for Supercomputers

3c-0l-3sh

Prerequisites: MA121 and MA122, or MA123 or MA127, MA171, CO250

Super computers make use of special computer architectures—vector and parallel processors—in order to achieve the fastest processing speed currently available. Students will be introduced to these features and will learn how numerical algorithms can be constructed to exploit supercomputers' capabilities. Students will gain practical experience in programming for the Cray, YMP, in incorporating existing scientific software packages into user-written programs, in submitting remote jobs to the Pittsburgh Supercomputer Center, and in producing animated graphical output to summarize the typically large volume of output data generated by large scientific programs. (Also offered as CO451; may not register for duplicate credit)

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MA 452 Seminar in Teaching Algebra

var-1-4sh

MA 453 Seminar in Teaching Geometry

var-1-4sh

MA 454 Seminar in Teaching General Mathematics

var-1-4sh

Seminars are designed for pre-student teacher. Students in each class will gain insights into the problems in teaching each topic and become aware of the materials available and methods of instruction geared to the special type of student. Education majors only.

MA 456 Principles of Geometry I

3c-01-3sh

Prerequisites: MA152, Elementary Education concentration

Students become acquainted with an informal, intuitive approach to geometry. Activities and materials for teaching geometrical concepts to children are an integral part of the course.

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MA 457 Introduction to Number Theory

3c-01-3sh

Prerequisites: MA152, Elementary Education concentration

Introduction to topics of elementary number theory including divisibility, prime numbers, factorization, modular arithmetic, problem solving, and place of number theory in the elementary school curriculum. Students will examine many number theory activities which can help to strengthen skills with basic facts in an interesting, nonroutine setting.

MA 458 Introduction to Logic and Logical Games

3c-01-3sh

Prerequisites: MA152, Elementary Education concentration

Introduction to some of the basic ideas, terminology, and notation of mathematical logic and Boolean algebra as well as games of strategy that involve logic. In addition, an investigation of how logic is taught and used in various programs for the elementary school.

MA 459 Computer-related Topics in the Elementary and Middle School

3c-01-3sh

Prerequisites: MA152, Elementary Education concentration

Provides teachers with concepts and techniques necessary to teach computer-related topics to children. Participants will work with elementary school children throughout the semester.

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MA 460 Computers and Calculators in Secondary School Mathematics Instruction

3c-01-3sh

Prerequisite: CO205

Students will explore how computers and calculators can be used as tools to enhance the instruction in secondary school mathematics.

MA 465 Topics in Statistics

3c-01-3sh

Prerequisite: MA364

Correlation and regression from applied and theoretical points of view, bivariate and multivariate normal distribution, analysis of variance, nonparametric methods. Practical problems involving statistical techniques and use of computer statistical packages. Knowledge of computer programming is not required.

MA 471 Basic Concepts of Algebra

3c-01-3sh

Prerequisites: MA152, Elementary Education concentration

Concepts of basic algebraic structures such as group, ring, integral domain, field, and vector space are studied within the context of the mathematical maturity of the student. Other topics include relations and functions, polynomials and polynomial equations, systems of equations, and inequalities. Consideration given to development of these concepts in the mathematics curriculum.

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MA 476 Abstract Algebra I

3c-0l-3sh

Prerequisites: MA171, MA271 with a C or better grade

Development of theory of integral domains, fields, rings, and groups; designed to develop student's power to think for himself or herself and to improve ability to construct formal proofs.

MA 477 Abstract Algebra II

3c-0l-3sh

Prerequisite: MA476

Designed to have student continue study of algebra by use of axiomatic method; Euclidean domains; polynomial domains and extension fields included; interrelationships between these structures and simpler structures, particularly groups and rings, are developed as in study of Galois group of a polynomial and in an introduction to Galois theory.

MA 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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MA 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

MA 490 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Positions with participating companies or agencies provide students with experience in mathematics-related work under the supervision of the agencies and faculty. Requirements include one to three on-site consultations, two university consultations, completion of progress reports, and presentation of final cumulative paper. Internship credit may not be used in fulfilling math major course requirements.

MA 493 Internship in Mathematics

var-3-12sh

Prerequisites: Completion of core curriculum, completion of application. Positions with participating companies or agencies provide students with experience in mathematics-related work under the supervision of the agencies and faculty. Requirements include one to three on-site consultations, two university consultations, completion of progress reports, and presentation of final cumulative paper. Internship credit may not be used in fulfilling math major course requirements.

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Medical Technology

Allied Health Professions Programs College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MT494](#) [MT495](#) [MT496](#) [MT497](#) [MT498](#) [MT499](#)

MT 494 Clinical Microbiology

var-6-10sh

Identification and clinical pathology of bacteria, fungi, viruses, and parasites. Techniques to isolate, stain, culture, and determine antimicrobial susceptibility. Instrumentation; quality control.

MT 495 Clinical Chemistry

var-7-10sh

Enzymology, endocrinology, biochemistry of lipids, carbohydrates, and proteins; metabolism of nitrogenous end products; physiology and metabolism of fluids and electrolytes; and toxicology as related to the body and diseases. The technical procedures include colorimetry, spectrophotometry, electrophoresis, chromatography, automation, and quality control.

MT 496 Clinical Hematology/Coagulation

var-4-7sh

The composition and function of blood; diseases related to blood disorders; the role of platelets and coagulation. Manual and automated techniques of diagnostic tests for abnormalities.

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MT 497 Clinical Immunohematology

var-3-6sh

Blood antigens, antibodies, crossmatching, hemolytic diseases, and related diagnostic tests. An in-depth study of blood donor service and its many facets such as transfusions, medico-legal aspects, etc.

MT 498 Clinical Immunology/Serology

var-2-4sh

Immune response, immunoglobulins, autoimmunity, and complement and related tests and diseases. Survey and demonstration of serological diagnostic tests.

MT 499 Clinical Seminar

var-0-6sh

Other courses which are not included in the above (such as orientation, laboratory management, education, clinical microscopy) and/or are unique to the individual hospital program.

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Military Science

Department of Military Science

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MS101](#) [MS102](#) [MS203](#) [MS204](#) [MS305](#) [MS306](#) [MS407](#) [MS408](#) [Leadership Laboratory](#) [Summer Camp](#)

MS 101 Introduction to Military Science

2c-1l-2sh

Study of the organization of the United States Army and the role of the military in today's society. Emphasis is on the customs and traditions of the service, the Total Army concept, and the fundamentals of leadership. Included is instruction in basic military skills, land navigation, and personal nutrition and fitness. Also, see Leadership Laboratory.

MS 102 Fundamentals of Military Science

2c-1l-2sh

Study of the basic knowledge regarding military service and the profession of arms. Emphasis is on basic military skills, first aid, and the development of leadership abilities through practical exercises. Included is instruction on offensive and defensive tactics, the Army writing style, and military briefings. Also, see Leadership Laboratory.

MS 203 Fundamentals of Tactical Operations, Techniques of Leadership, and Weapons Characteristics

2c-1l-2sh

Organization, techniques, resources, and capabilities involved in conducting small-unit tactical operations. Emphasis is on leadership, organization, and management techniques needed to cause a group of people to accomplish specific objectives. Characteristics of military weapons systems are taught. Students serve as leaders in Leadership Labs.

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MS 204 National Security and Fundamentals of Military Topography

2c-1l-2sh

Study of national security concepts, policies, and the national decision-making process with emphasis on national resources, national will, and economic factors. Included will be a study of nuclear and conventional response options. Fundamentals of military topography including the use of military maps to determine topographic features, to conduct land navigation, and to perform terrain analysis will be covered. Also, see Leadership Laboratory.

MS 305 Fundamentals of Leadership and Modern Learning/Teaching Relationship

3c-1l-3sh

Study in practical application of principles of leadership/management as applied in classroom and field to include case studies in psychological, physiological, and sociological factors which affect human behavior; individual and group solution of leadership problems common to small units. Also, see Leadership Laboratory.

MS 306 Study of Advance Leader Planning and Execution of Modern Combat Operations

3c-1l-3sh

Analysis of leader's role in directing and coordinating efforts of individuals and small units in execution of offensive and defensive tactical missions, to include command and control systems, the military team, and communications techniques. Also, see Leadership Laboratory.

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MS 407 Management of the Military Complex to Include Fundamentals of Military and International Law

3c-11-3sh

Study of the various managerial elements needed to effectively control a military organization and the techniques used to accomplish these functions. Studies in military law and international law prepare the students for their legal responsibilities. Also, see Leadership Laboratory.

MS 408 Seminar in Military Analysis and Management

3c-11-3sh

Contemporary analysis of use of military in world affairs to include importance of strategic mobility and neutralization of insurgent movements. Selected management problems and situations will be presented as they relate to military justice, administration, and obligation and responsibilities of an officer. Also, see Leadership Laboratory.

Leadership Laboratory (one afternoon per week)

var-0sh

A practical experience designed for the attainment and application of leadership principles. Concurrently scheduled in conjunction with all Military Science courses, it provides for practical challenges in personal accomplishment, both physical and mental, and for development of team work and leadership.

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Summer Camp

var-0sh

Students attend a six-week summer camp upon completion of the first year of the Advanced Course. Time at camp is devoted to practical application of principles and theories taught during the preceding school year. While at camp, each student receives lodging, subsistence, uniforms, medical care, reimbursement for travel, and pay in amount of one-half pay of second lieutenant per month.

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Music

Department of Music
College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MU110](#) [MU111](#) [MU112](#) [MU115](#) [MU116](#) [MU120](#) [MU121](#) [MU122](#) [MU123](#) [MU125](#) [MU126](#) [MU127](#) [MU129](#) [MU130](#)
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[MU412](#) [MU413](#) [MU414](#) [MU475](#) [MU481](#) [MU482](#) [MU493](#)

MU 110 Fundamentals of Theory

0c-3l-2sh

Rudiments of musical materials; harmonic, melodic, rhythmic, and basic formal procedures of the common practice period including pitch reading, interval construction, scales, and modes.

MU 111 Theory Skills I

0c-3l-2sh

Develops aural skills through dictation and interpretation of written music by sight-singing. Taken in conjunction with Theory I.

MU 112 Theory Skills II

0c-3l-2sh

Prerequisite: MU111

Continuing development of aural skills and introduction of keyboard skills. Taken in conjunction with Theory II.

MU 115 Theory I

3c-0l-3sh

The study of the harmonic, melodic, and formal devices of the common practice period, from simple diatonic chords through secondary dominants.

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MU 116 Theory II

3c-0l-3sh

Prerequisite: MU115

The study of the harmonic, melodic, and formal devices of the common practice period, from simple diatonic chords through secondary dominants. Theory II introduces basic music forms.

MU 120 Brass Ensemble

0c-2l-0/1sh

MU 121 Chamber Singers

0c-31-0/1sh

MU 122 University Chorale

0c-31-0/1sh

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MU 123 Symphony Band

0c-31-0/1sh

MU 125 Marching Band

0c-61-0/1sh

MU 126 Music Theater

0c-61-0/1sh

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MU 127 Percussion Ensemble

0c-41-0/1sh

MU 129 University Symphony Orchestra

0c-51-0/1sh

MU 130 String Ensemble

0c-21-0/1sh

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MU 131 University Wind Ensemble

0c-31-0/1sh

MU 133 Woodwind Ensemble

0c-21-0/1sh

MU 134 University Chorus

0c-31-0/1sh

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MU 135 Jazz Ensemble

0c-31-0/1sh

MU 136 Advanced Jazz Ensemble

0c-31-0/1sh

MU 137 Piano Accompanying

var-1-1 or 0sh

Piano accompanying may be scheduled by qualified pianists from the Department of Music in partial fulfillment of ensemble requirements. The course may be repeated for credit. Pianists registered for this course will provide accompaniments for Department of Music students in solo vocal or instrumental performances in area and departmental recitals and/or in voice and instrumental lessons. Registration for the course must be approved by a designated Department of Music faculty member from the piano area.

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MU 151 Class Voice I

1c-11-1sh

Conceived for non-Voice majors. Development of correct vocal production techniques through individual and group performance in class. Use of the voice as a tool for theory skills and for eventual use in the music classroom.

MU 152 Class Voice II

1c-11-1sh

Continuation of Class Voice I. Resumes development of correct vocal production techniques through performance.

MU 153 Class Piano I

1c-11-1sh

Designed for students with no significant background in piano who need to develop functional keyboard skills. Emphasis placed on harmonizing melodies and playing simple accompaniments.

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MU 154 Class Piano II

1c-11-1sh

Continuation of Class Piano I.

MU 155 Class Strings I

1c-11-1sh

For Music Education majors who will develop rudimentary playing techniques sufficient to initiate instruction for beginning students. Emphasis placed on correct playing positions and tone production for violin, viola, cello, and double bass.

MU 157 Class Percussion I

1c-11-1sh

A practical introduction to the various instruments of the percussion family. Students will demonstrate correct playing techniques and develop a resource file containing information on percussion instruments and instructional materials as needed by the school music teacher.

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MU 159 Class Brass I

1c-11-1sh

For Music Education majors who will demonstrate rudimentary playing techniques and tone production skills to initiate beginning instruction. Students will develop playing on trumpet or French horn and trombone, euphonium, or tuba.

MU 161 Class Woodwinds I

1c-11-1sh

For Music Education majors who will acquire correct tone production and playing techniques sufficient to initiate beginning instruction. Students will demonstrate skills with flute, clarinet, saxophone, and oboe or bassoon.

MU 163 Class Guitar I

1c-11-1sh

Designed for students with no significant background in guitar who wish to develop functional playing skills. Emphasis placed on using the guitar as an accompanying instrument.

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MU 211 Theory Skills III

0c-3l-2sh

Prerequisites: MU111, 112

Further development of aural and keyboard skills. Taken in conjunction with Theory III.

MU 212 Theory Skills IV

0c-3l-2sh

Prerequisites: MU111, 112, 211

Culmination of development in aural and keyboard skills. Taken in conjunction with Theory IV.

MU 215 Theory III

3c-0l-3sh

Prerequisites: MU115, 116

Extension of the techniques of the eighteenth and nineteenth centuries to include modulation, altered chords, more advanced musical forms, and contrapuntal procedures.

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MU 216 Theory IV

3c-0l-3sh

Prerequisites: MU115, 116, 215

Extension of the techniques of the eighteenth and nineteenth centuries to include modulation, altered chords, more advanced musical forms, and contrapuntal procedures. Theory IV concentrates largely on music and materials of the present century.

MU 217 Keyboard Harmony I

1c-11-1sh

Prerequisite: Nominal facility at keyboard

Designed to develop keyboard skills so the student may realize and produce in sound basic harmonic progressions.

MU 218 Keyboard Harmony II

1c-11-1sh

Prerequisite: MU217

Continuation of Keyboard Harmony I, involving chromatic harmony and more complex progressions.

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MU 224 Jazz Improvisation Techniques I

3c-01-3sh

A study of the basic materials and practices for improvising or extemporaneous playing.

MU 225 Jazz Improvisation Techniques II

3c-01-3sh

A continuation of the basic materials and practices for improvising or extemporaneous playing. Makes use of more complicated and involved harmonic progressions utilizing extended choral harmonies.

MU 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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MU 304 Form and Analysis I

2c-01-2sh

Prerequisite: MU216

Thorough study of smaller forms of music.

MU 306 Counterpoint I

2c-01-2sh

Prerequisite: MU216

After study and analysis of the style of sixteenth-century contrapuntal writing, student will do original writing using techniques and devices of period. As time permits, same approach will be made to explore style of seventeenth- and eighteenth-century composers.

MU 309 Orchestration I

2c-01-2sh

Prerequisite: MU216

All instruments of orchestra are studied from the viewpoint of their contribution to the total sound of ensemble. Ranges and timbres are considered, as well as actual arranging of selected music.

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MU 311 Fundamentals of Conducting

3c-01-2sh

Emphasis placed on fundamental physical skills of conducting process; various beat patterns are mastered and elementary score reading and interpretation are considered.

MU 312 Choral Conducting

3c-01-2sh

Prerequisite: MU311

Provides an opportunity for the student to apply basic conducting techniques to choral music. Each student conducts the class in standard choral works. Includes survey of suitable literature, organizational problems, voice testing, rehearsal techniques, program building, interpretation, and diction.

MU 313 Instrumental Conducting

3c-01-2sh

Prerequisite: MU311

Provides the student with an opportunity to apply basic conducting skills to various instrumental ensembles. Includes survey of suitable literature, organizational problems, audition procedures, rehearsal techniques, program building, and interpretation.

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MU 331 Elementary Methods

3c-01-3sh

Includes analytical study of texts, recordings, equipment, instruments, and other materials suitable to musical development of elementary pupils; proper treatment of child voice; selection, use, and teaching of rote songs; rhythmic activities and development; music reading; part singing; planning and organization; guided observations; and evaluation techniques.

MU 333 Secondary Methods

3c-01-3sh

Includes General Music Class, choral organizations, changing voice, techniques of instruction, including team teaching and programmed learning, high school theory courses, high school music literature courses, scheduling, administrative problems, curriculum development, evaluation of materials and equipment, evaluative techniques, and guided observation. Extra laboratory sessions are required.

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MU 335 Music for the Exceptional Student

2c-21-2sh

Develops music education skills, techniques, and materials for the emotionally, mentally, physically, or neurologically handicapped student and the gifted. Designed for students in music education, special education, and elementary education.

MU 337 General Music in Middle Schools

3c-01-3sh

Prerequisite: MU331

This course will provide general practices and pedagogy related to recent standards for a comprehensive, sequential middle school general music curriculum. Specific focus on curriculum development, lesson planning, instructional strategies, adolescent behavioral characteristics, as well as diverse materials and resources.

MU 340 Woodwind Instrument Repair

0c-21-2sh

Prerequisites: MU133, Teacher Certification

This course is designed for students preparing for teaching careers in instrumental music. Instruction will be conducted in a laboratory setting and will include development of the diagnostic and repair skills necessary to deal with the problems most frequently encountered in a public school classroom on the clarinet, flute, and saxophone.

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MU 351 Italian Diction and Literature

2c-01-2sh

For first-semester voice majors, this class meets for two hours per week. Emphasis is on pronunciation for the stage and readings of Italian song texts. Italian madrigals, solo song literature, and operatic repertoire are also studied.

MU 353 French Diction and Literature

2c-01-2sh

For third- or fourth-semester voice majors, this class meets for two hours per week. Emphasis is on pronunciation for the stage and the International Phonetic Alphabet. French solo song literature and operatic repertoire are also studied.

MU 354 German Diction and Literature

2c-01-2sh

For second-semester voice majors, this class meets for two hours per week. Emphasis is on pronunciation for the stage. German solo song literature as well as Bach chorales are studied.

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MU 405 Piano Pedagogy

3c-01-3sh

Prerequisites: Junior standing in Piano and a Piano major or minor

Survey of current and significant past developments in teaching of piano, both privately and in small and large classes. The various piano methods are analyzed, compared, criticized, and adapted to each individual's use.

MU 406 Voice Pedagogy

3c-01-3sh

Prerequisites: A voice major or minor and permission of the instructor

Survey of current and past development in teaching of voice, both privately and in small and large classes. The various vocal methods are analyzed, compared, criticized, and adapted to each individual's use.

MU 408 Marching Band Techniques

2c-01-2sh

Considers building a band show; alignment of ranks and files; development of a standard pace of 5 to 5 and 8 to 5; selection of music; instrumentation; techniques of developing morale; and fundamentals of uniform design.

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MU 411 Composition I

2c-01-2sh

Prerequisite: MU216

Instruction is individualized. Compositional devices studied through analysis of works by major composers. Students will write several original compositions utilizing smaller forms.

MU 412 Composition II

2c-01-2sh

Prerequisite: MU411

Continuation of Composition I.

MU 413 Composition III

2c-01-2sh

Prerequisite: MU412

Students will write several original compositions utilizing larger forms.

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MU 414 Composition IV

2c-0l-2sh

Prerequisite: MU413

Continuation of Composition III. Outstanding works will be programmed by university performing ensembles.

MU 475 Music Lab

var-0sh

All music majors must attend eight recitals per semester and all departmental recitals, as well as all recitals for their respective performance areas.

MU 481 Special Topics

3c-0l-3sh

Prerequisite: As appropriate to course content

May provide an in-depth study of a narrowly defined area of the discipline. Subject matter will change with repeated offering of the course. May be repeated for credit.

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MU 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

MU 493 Internship in Music

var-1-6sh

Designed for music majors who wish to receive practical experience working with people in music or in areas related to music.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Music History

Department of Music
College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MH101](#) [MH103](#) [MH281](#) [MH301](#) [MH302](#) [MH322](#) [MH323](#) [MH324](#) [MH325](#) [MH420](#) [MH421](#) [MH481](#) [MH482](#)

MH 101 Introduction to Music

3c-0l-3sh

Course presumes no technical background but does utilize the varied musical experiences of each individual to help extend interest as far as possible. Attendance at various concerts of university organizations, cultural life events, and visiting artist concerts is required to augment listening experiences of students. Offered as MU101 prior to Summer, 1989.

MH 103 Perspectives in Jazz

3c-0l-3sh

Designed to give an overview of the development and contributions of jazz in the American culture and provide a background for a more intensive and detailed study of jazz for the Jazz Studies major. Offered as MU103 prior to Fall, 1989.

MH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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MH 301 Music History I

3c-0l-3sh

Prerequisites: HI195, EN101, EN202, HI305 Intensive study of the history and style of Medieval, Renaissance, and Baroque music. Considerable analytical listening required.

MH 302 Music History II

3c-0l-3sh

Prerequisites: MH301 or permission

Intensive study of the history and styles of Classical, Romantic, and twentieth-century music to 1950. Considerable analytical listening required.

MH 322 Medieval and Renaissance Music

3c-0l-3sh

Intensive study of the plainchant foundations in the early Middle Ages; the origins of polyphony; sacred and secular music of the thirteenth to the sixteenth centuries; special emphasis on Dufay, Josquin, Palestrina, and their contemporaries. (Offered as MU322 prior to Fall, 1989. Title prior to Fall, 1992, was Renaissance Music.)

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MH 323 The Baroque Era

3c-0l-3sh

Prerequisites: MH301, 302

Extends from Monteverdi through Bach and Handel and considers vocal and instrumental forms, styles, and practices of era.

MH 324 The Classical Era

3c-0l-3sh

Prerequisites: MH301, 302

A survey of music from about 1725 to about 1827, with special attention to the music of Mozart and Haydn. Consideration is given also to the works of D. Scarlatti and C.P.E. Bach. (Titled as Eighteenth Century Music prior to Fall, 1992)

MH 325 The Romantic Era

3c-0l-3sh

A survey of music from about 1800 to 1910, with attention directed to the earlier romantic composers such as Beethoven, Schubert, Mendelssohn, and Berlioz through the later romantic composers such as Wagner, Tchaikowsky, Mahler, and Dvorak as well as others. (Titled as The Early Romantic Period prior to Fall, 1992)

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MH 420 The 20th Century

3c-0l-3sh

Prerequisites: MH301, 302

A survey of the stylistic trends of music from 1900 to the present, beginning with Debussy, Ravel, and other impressionists through the music of Schonberg, Stravinsky, Webern, Honegger, and Milhaud. Offered infrequently. (Titled as Contemporary Music prior to Fall, 1992.)

MH 421 American Music

3c-0l-3sh

Prerequisites: MH301, 302

A study of history and literature of music in America from 1600 to the present day. Offered as MU421 prior to Fall, 1989.

MH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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MH 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Nuclear Medicine Technology

Allied Health Professions College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[NT427](#) [NT428](#) [NT429](#) [NT430](#) [NT431](#) [NT432](#) [NT433](#) [NT434](#)

NT 427 Nuclear Scintigraphy

3c-0l-3sh

Theoretical aspects of nuclear medicine imaging procedures, including applicable pathophysiology, technical aspects for data acquisition, and computer analysis of data. Systemic radionuclide therapy procedures are also discussed.

NT 428 Radiation Physics

3c-0l-3sh

Applicable aspects of nuclear and atomic physics are covered both in theory and mathematical formulae. Theoretical topics include atomic and nuclear structure, radioactive decay, interactions with matter, and radionuclide production methods. Mathematical concepts discussed are the decay equation, equilibrium, and radiation dosimetry.

NT 429 Nuclear Medicine Instrumentation

2c-1l-3sh

This course covers the basic principles of both in vitro and in vivo instrumentation. The design, operation, and quality control of gas detectors and scintillation detectors are covered. Survey equipment, spectrometers, and stationary imaging devices are presented with their application to nuclear medicine. Hands-on laboratory experience with single channel analyzers and Anger cameras is included.

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NT 430 Radiation Biology and Radiation Protection

2c-0l-2sh

Topics include ionization and energy transfer; molecules, cellular, tissue, and organ response to radiation; acute and chronic effects of radiation; radiation protection; licensing requirements; recordkeeping; and management of clinical radiation spills.

NT 431 In Vivo/In Vitro Non-Imaging

1c-0l-1sh

In vivo clinical nuclear medicine procedures not resulting in images as well as principles of in vitro radioassay are presented. Included are venipuncture, blood volumes, red cell studies, Schillings test, principles of immunology, various types of radioassay, and sensitivity and specificity of procedure.

NT 432 Radiopharmaceuticals

3c-0l-3sh

Topics include tracer theory, pharmacological actions, localization methods, radiopharmaceutical properties, radionuclide generators, radiopharmaceutical preparations and quality control, and transient vs. secular equilibrium. Routinely used radiopharmaceuticals are discussed.

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NT 433 Introduction to Tomographic Imaging

1c-01-1sh

An introduction to the basic principles of cross-sectional anatomy and tomographic imaging is presented. Topics include body planes and cross-sectional anatomy of the heart, brain, liver, and lumbar spine, as applicable to nuclear medicine, and the theory and application of both SPECT and PET imaging systems.

NT 434 Clinical Nuclear Medicine

0c-401-16sh

Prerequisite: Completion of 77 credits at IUP and Phase I and NMI

Students complete 1,320 hours of supervised clinical training at an affiliate hospital. Students receive instruction and participate in the performance of various clinical nuclear medicine procedures, patient care, administrative duties, radiopharmaceutical preparation and quality control, equipment quality control, quality assurance, and radiation safety. Students develop both their technical skills and interpersonal communication skills for incorporation into the medical community and to provide quality patient care.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Nursing

Department of Nursing College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[NU280](#) [NU281](#) [NU285](#) [NU302](#) [NU303](#) [NU304](#) [NU305](#) [NU322](#) [NU323](#) [NU402](#) [NU403](#) [NU404](#) [NU405](#) [NU407](#)
[NU422](#) [NU423](#) [NU430](#) [NU480](#) [NU481](#) [NU482](#)

NU 280 Introduction to Nursing

3c-0l-3sh

Prerequisite: Nursing majors only

Introduces the major concepts of concern to nursing: persons in their environments, health, and the profession of nursing. Topics include the nurse's role as provider of care and member of a profession; the nursing process as the mode of practice; the value of research as a basis for nursing practice; biophysical and psychosocial components of wellness.

NU 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

NU 285 Introduction to Clinical

0c-9l-3sh

Prerequisite: Nursing majors only

A clinical and college laboratory course which provides the opportunity to practice the use of the nursing process. Emphasis is placed on assessment and basic intervention skills.

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NU 302 Core I

2c-0l-2sh

Prerequisite: NU280

Emphasizes the involvement of nurses and nursing in selected aspects of wellness promotion and maintenance. The theory base for the use of the nursing process to support individuals and families through maturational change and the childbearing cycle is presented.

NU 303 Clinical Laboratory I

0c-14l-5sh

Prerequisites: NU280, NU285

A clinical laboratory course which enables the student to care for individuals and families across the life span. Guided

experiences are provided in hospital and community-based facilities. The nursing process is utilized to promote and maintain wellness in individuals within families.

NU 304 Core II

2c-01-2sh

Prerequisite: NU302

Emphasizes the involvement of nurses and nursing in selected aspects of wellness, promotion, maintenance, and restoration. The theory base for the use of the nursing process is expanded to include family, community health, and transcultural nursing concepts.

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NU 305 Clinical Laboratory II

0c-141-5sh

Prerequisite: NU303

A clinical laboratory course which enables the student to provide care to individuals and families with acute and chronic health problems across the life span. Guided experiences are provided in hospital and community-based facilities and individuals' homes. The nursing process is utilized to promote, maintain, and restore optimal wellness in individuals within families.

NU 322 Maintenance and Restoration of Wellness I

3c-01-3sh

Prerequisites: NU280, NU285

Introduces pathophysiologic change in individuals across the life span and associated nursing management. Topics include caring for the individual who requires surgery or whose alteration in health is related to problems in oxygenation, nutrition, and fluid and electrolyte balance.

NU 323 Maintenance and Restoration of Wellness II

3c-01-3sh

Prerequisite: NU322

Physiologic and psychologic pathology in individuals across the life span and associated nursing management. Topics include caring for the individual whose alteration in health is related to problems with reproductive, cognitive-perceptual, motor, metabolic, and elimination function.

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NU 402 Core III

2c-01-2sh

Prerequisite: NU304

Emphasizes the nurse's roles as accountable provider and coordinator of care and member of a profession. The specific issues that are addressed are quality assurance in provision of patient care; rights and responsibilities of the individual, the nurse as an employee, and the employer; current environmental health concepts.

NU 403 Clinical Laboratory III

0c-141-5sh

Prerequisite: NU305

A clinical laboratory course which affords the opportunity to apply the nursing process as provider and coordinator of care with individuals and families experiencing complex health care needs in a variety of health care facilities.

NU 404 Core IV

2c-01-2sh

Prerequisite: NU402

Emphasizes the nurse's roles as provider and coordinator of care in health care facilities and in emergency and disaster situations. Concepts and principles related to the management of the health care team, community health, and rehabilitation are addressed.

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NU 405 Clinical Laboratory IV

0c-141-5sh

Prerequisite: NU403

A clinical laboratory course which affords the opportunity for the application of critical thinking, health teaching, and management skills. Emphasizes development of the caregiver role in selected areas of clinical practice; development of the care provider and coordinator roles in inpatient and community settings with individuals and families experiencing complex health care needs; integration of the roles of provider and coordinator of care and member of a profession.

NU 407 Skills for Professional Success

1c-01-1sh

Prerequisite: must be enrolled in senior level nursing courses

This one-credit elective for senior nursing majors is designed to help students foster clinical judgment skills by focusing on critical thinking and test-taking. Emphasis is placed on preparing students with the skills that are essential for success on the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

NU 422 Maintenance and Restoration of Wellness III

3c-01-3sh

Prerequisite: NU323

Emphasizes pathophysiology and psychopathology for understanding the complex process of the individual's adaptation to crisis. The theory base for the application of the nursing process in the care of individuals requiring hospitalization, life-sustaining treatment, intensive monitoring, and crisis intervention is discussed.

NU 423 Maintenance and Restoration of Wellness IV

3c-01-3sh

Prerequisite: NU422

Emphasizes strategies used in assisting individuals and their families in the promotion, maintenance, and restoration of optimal wellness. The theory base for the application of the nursing process when illness is being managed in acute, long-term care, and community settings is discussed.

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NU 430 Nursing Research

3c-01-3sh

Prerequisite: MA217

Focus on evaluating research through a study of research design, methodologies, sampling, data analysis, and significance of findings. Consideration is given to issues in conducting research and the impact on problems investigated, the nurse researcher, and the consumer of research.

NU 480 Seminar in Nursing

1c-01-1sh

Prerequisites: NU280, NU285

A seminar which provides a forum for the exploration and discussion of issues relevant to the professional nurse. Emphasis is placed on the development of professional values, critical thinking, decision-making, and communication

skills. A selection of topics on current issues and trends will be offered each semester; each will focus on a particular theme related to nursing practice. One credit hour of seminar is required in each semester in the upper-division nursing courses.

NU 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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NU 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Office Systems

Department of Office Systems and Business Education Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[OS281](#) [OS301](#) [OS313](#) [OS315](#) [OS400](#) [OS411](#) [OS412](#) [OS413](#) [OS480](#) [OS481](#) [OS482](#) [OS493](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

OS 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Prerequisite: As appropriate to course content Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

OS 301 Advanced Microcomputer Applications

3c-0l-3sh

Prerequisite: BE/CO/IM 101, or permission of instructor

Advanced applications of microcomputing software from the user perspective to enhance productivity of office employees, executive and managerial, professional, and support personnel. Comparative and evaluative techniques for appropriate selection and implementation of software. Word processing, spreadsheet, database, desktop publishing, utility, and operating system software will be emphasized.

OS 313 Office Systems Technologies

3c-0l-3sh

Prerequisite: Junior standing

Emphasis on systems hardware, especially the microcomputer. Concepts and design principles common to all microprocessors are studied. Auxiliary hardware, such as reprographics, printers, modems, scanners, and laser technology will be included.

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OS 315 Records Administration

3c-0l-3sh

Prerequisite: BE/CO/IM101 or permission of instructor

Development of the goal of records administration as a system including the input, process, and output components. Records creation, records classification systems, evaluation, retention programs, manual through automated information systems, image technology, form design, record control systems, records manuals, and disaster prevention and recovery will be discussed. (Offered as OS415 prior to 1995-96)

OS 400 Telecommunications

3c-0l-3sh

Prerequisite: BE/CO/IM101

Knowledge and concepts of telecommunications technology, applications, and management as they apply to office systems.

OS 411 Microcomputer Support for Office Systems

3c-0l-3sh

Prerequisites: OS301, OS313, and OS400

Includes three dimensions of study relative to office systems—helpdesk management, training and development, and ergonomics. Incorporates practical applications for delivering technical support through the operation of a helpdesk. Requires development and delivery of technological applications and a field study of ergonomic office designs.

OS 412 Administrative Office Services

3c-0l-3sh

Presentation of fundamental principles and practices used in the development of an office. Specialized areas such as systems analysis, work simplification, forms design, information processing, office machines and equipment, records management, office design and layout, office location and physical environment, office supervision, office manuals, and development of office personnel will be discussed.

OS 413 Information Processing Technology

3c-0l-3sh

A comprehensive study of information processing including equipment selection/functions, personnel, and procedures.

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OS 480 Seminar in Office Systems

3c-0l-3sh

Prerequisites: Graduating seniors only or permission of instructor

Emphasis on the solving of office management problems. Provides an opportunity to integrate and apply the skills and knowledge previously gained in the Office Systems major. (Offered as AD430 prior to Summer, 1991; offered as OS430 until 1995)

OS 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

OS 482 Independent Study

var-3sh

Prerequisite: Prior approval through adviser, faculty member, department Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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OS 493 Internship

var-3-6sh

Prerequisites: Approval of internship coordinator, chairperson, and dean and 2.75 overall GPA and 3.0 GPA in Business

A supervised office experience program with an approved agency (business, industry, and government).

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Pan-African Studies

College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

AF131 Introduction to Pan-African Studies

3c-0l-3sh

A multidisciplinary introduction to Africa and the African diaspora. The course explores the effects of Africa's history, in particular colonialism and independence, on present-day Africa; it examines the relationship between Africa and the African diaspora with special attention to African arts, social systems, and political and economic development; it also looks at Africa's contribution to contemporary culture in the Americas.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Philosophy

Department of Philosophy and Religious Studies
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[PH101](#) [PH120](#) [PH221](#) [PH222](#) [PH223](#) [PH232](#) [PH281](#) [PH321](#) [PH323](#) [PH324](#) [PH325](#) [PH326](#) [PH330](#) [PH400](#) [PH405](#)
[PH410](#) [PH420](#) [PH421](#) [PH450](#) [PH460](#) [PH481](#) [PH482](#) [PH482](#) [PH493](#)

PH 101 Informal Logic: Methods of Critical Thinking

3c-0l-3sh

Designed to develop students' ability to analyze critically deductive and inductive argumentation, rhetoric, and persuasion, by examples drawn from media, textbooks, advertising, scholarly works, personal contacts, etc.

PH 120 Introduction to Philosophy

3c-0l-3sh

Designed to acquaint the beginning student with philosophical problems and methods in such areas as metaphysics, epistemology, logic, and value theory.

PH 221 Symbolic Logic I

3c-0l-3sh

An introduction to fundamental concepts in deductive logic with an emphasis on teaching students the basis of clear logical thought. Some of the historical origins of logical theory are explored. Students learn to symbolize arguments in the truth-functional logic and the predicate logic. Ways of testing arguments for validity as well as proofs are covered, with a stressing of application to actual arguments drawn from numerous sources in the media, philosophical issues, and moral problems.

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PH 222 Ethics

3c-0l-3sh

An investigation of efforts to rationally justify moral judgment. Deals with fundamental issues such as: What is morality? Are moral notions cultural, rational, divine, or innate in origin? Are they relative or absolute? Are they freely chosen or determined by genetics and/or environment? Covers a variety of ethical theories significant both historically and contemporarily and applies those theories to current issues which involve moral dilemmas.

PH 223 Philosophy of Art

3c-0l-3sh

Investigates some of the major problems in the philosophy of art, e.g., the nature of beauty and the aesthetic experience, the ethics and politics of art, creativity, the nature of the work of art and aesthetic objects, the concept of fine art, and the evaluation of works of art and aesthetic objects.

PH 232 Philosophical Perspectives on Love, Marriage, and Divorce

3c-0l-3sh

Examines the philosophical foundations of contemporary Western institutions and ideologies of romantic love. Considers major positions in both the history of philosophy and contemporary philosophy. Investigates the concepts, problems, and philosophical theories central to understanding romantic love, marriage, and divorce.

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PH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

PH 321 Symbolic Logic II

3c-0l-3sh

Prerequisite: PH221 or permission of instructor

A continuation of Symbolic Logic I designed to enable students to evaluate consistency of statements, validity of arguments, soundness and completeness of formal systems. Focus on quantificational calculus and inductive logic.

PH 323 Political Philosophy

3c-0l-3sh

An inquiry into the philosophical concepts underlying the major political theories from ancient Greece to the modern era. Emphasis will be placed on major authors and texts to demonstrate a continuum of ideas and their modifications, replacement, and revival, as well as novel political ideas. Possible topics: commonality; peace; internationalism; sovereignty; nature of the state; law; the ruler; cosmopolitanism; nationalism; social contract; liberty; obligation; property; racism; sexism; slavery.

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PH 324 History of Philosophy I: Ancient and Medieval

3c-0l-3sh

Western philosophy of pre-Socratic, classical Greek, Roman, and medieval periods. Special attention given to Plato, Aristotle, Augustine, and Aquinas, as well as the philosophic schools.

PH 325 History of Philosophy II: Renaissance and Modern

3c-0l-3sh

Continuation of PH324, beginning with fifteenth-century Renaissance thought and ending with the nineteenth-century precursors of contemporary philosophies.

PH 326 Phenomenology and Existentialism

3c-0l-3sh

A study of the phenomenological method as developed by Edmund Husserl and of the subsequent phenomenological movement as exemplified in the works of such representative figures as Heidegger, Merleau-Ponty, and Paul Ricoeur and of existentialism both as an independent movement of thought and as influenced by phenomenology and exemplified in the works of such representative figures as Kierkegaard, Jaspers, Marcel, Buber, and Sartre.

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PH 330 Philosophy of Science

3c-0l-3sh

An investigation into the nature of formal and empirical sciences: structure of scientific thought and its dependence upon or independence of theory; the logical and metaphysical status of scientific laws and theoretical concepts; reductionism in science; the concept of causality; the logic of explanation; problems in confirmation theory; science and value. No special background required. Recommended for math and science majors.

PH 400 Ethics and Public Policy

3c-0l-3sh

An analysis of the ethical dimension of public policies. Provides a general understanding of ethical theories, then focuses on their application to specific policy issues. Topics will vary from semester to semester. See current schedule of classes.

PH 405 Justice and Human Rights

3c-0l-3sh

An introduction to theories of justice and an analysis of the concept of human rights which is central to a just society and to much moral, political, and legal dispute. This course will explore relevant major positions in the history of philosophy, but its major focus is contemporary and raises issues such as women's rights, black rights, animal and environmental rights, welfare rights, and rights to life (or death).

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PH 410 Contemporary Analytic Philosophy

3c-0l-3sh

Investigation of twentieth-century Western positions such as pragmatism, logical positivism, logical and linguistic analysis.

PH 420 Metaphysics

3c-0l-3sh

A study of the nature of reality in general and of the main categories through which it is understood. The main topic areas of metaphysics concern: the one and the many; the relation of thought and being; the problem of universals; nominalism; realism; idealism; the nature of being, substance, essence, space, time, eternity, matter, mind; determinism and indeterminism.

PH 421 Theory of Knowledge

3c-0l-3sh

Investigation into problems involved in knowledge and justification and a consideration of methods suggested for their resolution. Particular attention is paid to issues such as knowledge, justification, certainty, objectivity, perception, and truth.

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PH 450 Philosophy of Law

3c-0l-3sh

An examination of the nature of law and its relationship to such questions as morality, obligation, judicial review, justice, rights, punishment, liberty. The course combines philosophical theory with consideration of selected court cases to develop a philosophical and legal understanding of law and its place in society.

PH 460 Philosophy of Language

3c-0l-3sh

An investigation of issues in the philosophy of language and related issues in linguistics (including anthropological

linguistics, sociolinguistics, and psycholinguistics). Topics include, for example, the influence of language on perception, rationalist/empiricist perspectives on language acquisition, language and political control, reference, meaning, and truth.

PH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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PH 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. May be taken more than once to a maximum of 6sh. (This option is available to both philosophy majors and nonmajors.)

PH 482 Independent Study: Honors Project

3c-01-3sh

Prerequisites: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. 3.00 QPA, 15sh in Philosophy, and 3.20 average in departmental courses

Majors in Philosophy are invited to take 3sh of independent study designated Honors Project. Upon satisfactory completion, graduation with departmental honors is possible.

PH 493 Internship in Philosophy

var-3-6sh

Prerequisites: Permission of the department, junior or senior PH major or double major, 2.5 QPA

A supervised experience of no longer than one semester and no less than five weeks. This would take place in either a public or private organization in areas that either extend and develop or complement coursework in Philosophy. Log and/or major paper required. Internships are to be done with a clear analysis, argumentation, and examination of governing principles.

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Physics

Department of Physics
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[PY101](#) [PY111](#) [PY112](#) [PY121](#) [PY122](#) [PY131](#) [PY132](#) [PY141](#) [PY142](#) [PY151](#) [PY161](#) [PY222](#) [PY223](#) [PY231](#) [PY242](#)
[PY281](#) [PY299](#) [PY322](#) [PY323](#) [PY331](#) [PY342](#) [PY350](#) [PY351](#) [PY352](#) [PY353](#) [PY355](#) [PY399](#) [PY432](#) [PY472](#) [PY473](#)
[PY475](#) [PY476](#) [PY480](#) [PY481](#) [PY482](#) [PY490](#) [PY493](#)

PY 101 Energy and Our Environment

3c-0l-3sh

An overview of the areas of energy, transportation, and pollution. These topics are approached via the relevant concepts of physical science and physics. A nonlaboratory course for Liberal Studies requirements.

PY 111 Physics I Lecture

3c-0l-3sh

Prerequisites: Elementary algebra and trigonometry

General college physics; mechanics, wave motion, and sound.

PY 112 Physics II Lecture

3c-0l-3sh

Prerequisite: PY111

Electricity and magnetism, heat, light, atomic and nuclear physics, and an elementary introduction to relativity and quantum theory.

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PY 121 Physics I Lab

0c-3l-1sh

Corequisite: PY111

Physics laboratory at level of Physics I; exercises in mechanics, wave motion, and sound.

PY 122 Physics II Lab

0c-3l-1sh

Corequisite: PY112

Physics laboratory at level of Physics II; exercises in optics, electricity and magnetism, and radioactivity.

PY 131 Physics I-C Lecture

3c-0l-3sh

Prerequisites: MA121, 123, or 127, at least concurrently

A calculus-based course in general college physics; topics covered are similar to those covered in Physics 111 but are

treated in more depth through the use of calculus.

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PY 132 Physics II-C Lecture

3c-0l-3sh

Prerequisites: MA122, 124, or 128, at least concurrently

Continuation of Physics I-C; topics covered are similar to those covered in Physics II but are treated in more depth through the use of the calculus.

PY 141 Physics I-C Lab

0c-3l-1sh

Corequisite: PY131

Physics laboratory at same level as Physics I-C; exercises in mechanics, wave motion, and sound.

PY 142 Physics II-C Lab

0c-3l-1sh

Corequisite: PY132

Physics laboratory at same level as Physics II-C; exercises in optics, electricity and magnetism, and radioactivity.

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PY 151 Medical Physics Lecture

3c-0l-3sh

Development of concepts and principles of physics with a strong emphasis as to their use and application in medical and other biophysical areas.

PY 161 Medical Physics Lab

0c-3l-1sh

Corequisite: PY151

Experiments dealing with applications of physical principles to the field of medicine. Practical experience with use of electronic equipment, chart recorders, etc., of type found in modern-day medicine will be introduced.

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PY 222 Mechanics I

2c-0l-2sh

Prerequisites: PY111 or 131; MA122, 124, or 128

Dynamics of a particle in one, two, and three dimensions, central forces including planetary and satellite motion, energy in particle dynamics, statics, and systems of particles.

PY 223 Mechanics II

2c-0l-2sh

Prerequisites: PY222, MA241

Mechanics of a rigid body, constraints, oscillations, wave motion, introduction to Lagrangian and Hamiltonian formulation and relativistic mechanics.

PY 231 Electronics

3c-3l-4sh

Prerequisites: PY112 or 132; MA122, 124, or 128

Circuit theory, transients, transistor circuits, frequency response, input and output impedance, feedback and electronic noise. Operational amplifiers and digital electronics.

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PY 242 Optics

3c-0l-3sh

Prerequisites: PY112 or 132; MA122, 124, or 128

Geometrical optics and physical optics; including interference, diffraction, and polarization. Quantum optics is introduced.

PY 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

PY 299 Cooperative Education I

var-1-3sh

Prerequisites: PY 132; completion of 30 credits with a minimum of 2.0 GPA and approval of the cooperative education coordinator

This program blends classroom theory with practical application through job-related experience. Students will work in positions offered by the participating industrial or federal/state work-study program employers under joint supervision of the Physics faculty and the on-site supervisor. A co-op student must be a full-time university student in good academic standing and be planning to return to campus for completion of his/her degree program. Evaluation requirements may include on-site visitations by the faculty/coordinator, consultation with the on-site supervisor, and a major progress report by the student or the presentation of a detailed oral report before the departmental cooperative education committee.

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PY 322 Electricity and Magnetism I

2c-0l-2sh

Prerequisite: PY222

Electrostatic potential theory, dielectrics, dipole theory, magnetostatics, Maxwell equations for static fields, and Legendre's polynomials and other approximation methods.

PY 323 Electricity and Magnetism II

2c-0l-2sh

Prerequisite: PY322

Time-dependent form of Maxwell equations, electromagnetic induction, vector potential, magnetism, radiation fields, and Poynting vector.

PY 331 Modern Physics

3c-0l-3sh

Prerequisites: PY112 or 132; MA122, 124, or 128

Introduction to particle and wave properties of matter, atomic structure, relativity, solid state and nuclear physics.

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PY 342 Thermal and Statistical Physics

3c-0l-3sh

Prerequisites: PY112 or 132; MA122, 124, or 128

Thermometry, laws of thermodynamics, low-temperature physics, entropy, properties of ideal gas, and an introduction to statistical mechanics.

PY 350 Intermediate Experimental Physics I

0c-6l-3sh

Prerequisites: PY242 and 331

Required fundamental experiments in areas of mechanics, optics, modern physics, and heat.

PY 351 Intermediate Experimental Physics II

0c-6l-3sh

Prerequisite: PY350

Increasingly sophisticated experiments in essential areas of physics. Digital computers and the Van de Graaff are available.

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PY 352 Applied Physics Laboratory

0c-6l-3sh

Prerequisites: PY 231, PY 150, or permission of instructor

In this laboratory the student is introduced to much of the fundamental equipment used in industry. The student is trained in the operation and proper use of this equipment through a series of experiments that teach him/her signal detection and analysis including data acquisition by computer. The student will receive instruction on the proper methods to be used for various oral and written presentations.

PY 353 Solid State Electronics Laboratory

0c-6l-3sh

Prerequisite: PY352 or permission of instructor

In this laboratory the student will encounter a number of areas of current interest in semiconductor technology. The student will perform experiments and learn skills in such areas as device process simulation, device simulation, measurements of semiconductor materials, and measurement of device parameters. The student will also be instructed in the proper presentation of written and oral reports.

PY 355 Computer Interfacing

2c-2l-3sh

Prerequisite: CO110

This course is designed to teach the fundamentals of interfacing the personal computer to its physical surroundings. The students will learn how to collect data and to control experiments in real time. They will learn how to use digital to analog conversion (DAC) techniques and analog to digital conversion (ADC) techniques. They will also use a graphical software package (such as LabVIEW) to design icon based interfacing tools, to learn how to use virtual instruments and to analyze data. (Offered as PY150 Computer Applications to Physics Laboratories prior to 1997-98)

PY 399 Cooperative Education II

var-1-3sh

Prerequisites: PY 299; PY 350; completion of 80 credits with a minimum of 2.5 GPA and approval of the cooperative education coordinator

A second course in cooperative education. Includes instruction that builds upon learning experiences in college by combining and correlating them with learning experiences at the training station to meet the student's career goals.

Evaluation requirements may include on-site visitations by the faculty/coordinator, consultation with the on-site supervisor, and a major progress report by the student or the presentation of a detailed oral report before the departmental cooperative education committee. No more than three semester hours of PY299, PY399, and/or PY493 may be used in fulfilling physics major course requirements.

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PY 432 Advanced Electronics

2c-3l-3sh

Prerequisite: PY231

Digital measurement, switching circuits, logic circuits, counting, coding, input and output, AD and DA converters, computer organization.

PY 472 Nuclear Physics

3c-0l-3sh

Prerequisite: PY331

Survey of nuclear physics, nuclear size, nuclear mass, reaction theory, types of radioactive decay, nuclear models, nuclear forces, and elementary particles.

PY 473 Quantum Mechanics I

4c-0l-4sh

Prerequisites: PY222 and 331

Quantum mechanics following methods of Schrodinger and Heisenberg; the theory is applied to properties of harmonic oscillator, hydrogen atom, electron in a magnetic field, and radioactive decay of alpha particles.

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PY 475 Physics of Semiconductor Devices I

3c-0l-3sh

Prerequisites: PY231, PY242, PY342, or permission of instructor

Develops the basic foundation for a study of the theory of semiconductors. Elementary quantum concepts, the band theory of solids, electrical properties of solids, effective mass theory, and principles of semiconductor devices are discussed.

PY 476 Physics of Semiconductor Devices II

3c-0l-3sh

Prerequisite: PY 475 or permission of instructor

Discusses the physics and operation of a number of discrete devices including: bipolar transistors, MOSFETS, JFETS, CCDs, various diode technologies, photovoltaic and photoconductive devices, solid-state lasers, and light-emitting diodes.

PY 480 Seminar

var-1sh

Speakers from within and outside the university conduct a seminar on a weekly or biweekly basis on different topics of interest in the physics community.

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PY 481 Special Topics in Physics

var-1-3sh

Prerequisite: As appropriate to course content

Varies from semester to semester and covers diverse topics in specific areas of physics. This course number is also used to offer courses under development.

PY 482 Independent Study in Physics

var-1-6sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. Work is supervised by a physics faculty member but does not necessarily involve regular lecture or laboratory hours.

PY 490 Solid State Physics

3c-01-3sh

Prerequisites: PY223 and 331

Reciprocal lattice, crystal structure, the quantization of fields to produce quasi-particles such as phonons, magnons, excitons. Fermi gas of electrons, energy bands, semiconductor crystals, and photoconductivity.

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PY 493 Internship in Physics

var-1-3sh

Prerequisites: PY 350; completion of 90 credits with a minimum of 2.5 GPA and approval of the internship education coordinator

Supervised professional work-experience in physics and applied physics. Location, duties, internship, and hours are individually tailored to the student's career goals. A maximum of 3sh of internship in the student's major may be applied toward the physics major area elective requirements. Additional internship credit must be used as free electives. Evaluation requirements include on-site visitations by the faculty/coordinator, consultation with the on-site supervisor, and a major progress report by the student or the presentation of a detailed oral report before the departmental internship education committee.

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Political Science

Department of Political Science
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[PS101](#) [PS111](#) [PS250](#) [PS251](#) [PS280](#) [PS281](#) [PS282](#) [PS283](#) [PS285](#) [PS300](#) [PS320](#) [PS321](#) [PS346](#) [PS350](#) [PS351](#) [PS353](#)
[PS354](#) [PS355](#) [PS356](#) [PS358](#) [PS359](#) [PS360](#) [PS361](#) [PS362](#) [PS370](#) [PS371](#) [PS377](#) [PS380](#) [PS382](#) [PS383](#) [PS384](#) [PS385](#)
[PS386](#) [PS387](#) [PS388](#) [PS389](#) [PS480](#) [PS481](#) [PS482](#) [PS493](#)

PS 101 World Politics

3c-0l-3sh

Analysis of contemporary (post-1945) state system and forces shaping the world in which we live. Student is given a framework within which to analyze contemporary international politics.

PS 111 American Politics

3c-0l-3sh

Introduction to American national government and politics, emphasizing Constitution, party system, Congress, Presidency, courts, and problems in national-state relations, civil rights, foreign policy, and social and economic policies.

PS 250 Public Policy

3c-0l-3sh

Emphasizes dynamics of government as they are evidenced in public opinion, pressure groups, political parties, and our governmental institutions; attention also directed toward the political-economical nexus within American society.

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PS 251 State and Local Political Systems

3c-0l-3sh

Institutions and processes of state and local governments, with special attention to Pennsylvania; emphasis on the nature of federalism, state constitutions, and role of state and local government in an urban society.

PS 280 Comparative Government I: Western Political Systems

3c-0l-3sh

Analyzes Western political systems with emphasis upon major contemporary democratic governments of Europe. Analyzes and compares their political cultures, political institutions, and political processes.

PS 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the

established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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PS 282 International Relations

3c-0l-3sh

Provides a conceptual framework for understanding sovereignty, nationalism, power, security, dispute settlement, and diplomatic, legal, economic, and military relations of nation-states. (Offered as PS281 prior to June, 1991)

PS 283 American Foreign Policy

3c-0l-3sh

Examines formulation and execution of American foreign policy, with attention to governmental institutions, mass media, interest groups, and public opinion; emphasizes contemporary problems.

PS 285 Comparative Government II: Non-Western Political Systems

3c-0l-3sh

Analyzes major non-Western political systems with emphasis upon authoritarian and totalitarian systems. Analyzes and compares in a systematic manner their political cultures, political institutions, and political processes.

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PS 300 Research Methods in Political Science

3c-0l-3sh

Prerequisite: PS101 or PS111

An examination of the application of the scientific approach to the investigation of social and political phenomena. Concentrates on approaches, methods, and computer tools. All political science majors and minors are strongly urged to enroll.

PS 320 International Law

3c-0l-3sh

Prerequisites: PS101, PS281, or permission of instructor

Study of the development, nature, and function of international law, including recent trends.

PS 321 International Organizations

3c-0l-3sh

Prerequisites: PS101, PS281, or permission of instructor

Inquiry into purposes, structures, and actions of contemporary international political organizations, such as United Nations, regional, and functional organizations.

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PS 346 Political Sociology

3c-0l-3sh

Prerequisites: PS111, SO151

Examines (a) who controls the state and state policy, (b) the role the state plays in stabilizing capitalism and protecting the power of the upper class, (c) the political activities of the middle and upper class, (d) labor, civil rights, welfare rights, and social movements in America. Cross-listed in Sociology as SO458: Political Sociology.

PS 350 The Presidency

3c-01-3sh

Examination of the Office of President, with attention to constitutional foundations, evolution, structure, powers, and functions; some comparisons between presidential and parliamentary systems and between offices of President and Governor.

PS 351 Legislative Process

3c-01-3sh

Functional study of legislative bodies and process of legislation, covering organization of legislative assemblies, operation of committee system, procedures, bill drafting, aides, and controls over legislation.

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PS 353 American Political Parties

3c-01-3sh

The role of people, parties, and pressure groups in politics of American democracy; attention to sectional and historical roots of national politics, voting behavior, pressure group analysis, and campaign activities.

PS 354 Metropolitan Problems

3c-01-3sh

Analyzes multiplicity of problems facing our metropolitan areas. Contemporary developments such as urban renewal, shrinking tax base, federal aid to cities, subsidized mass transit, municipal authorities, and political consolidation are examined.

PS 355 Intergovernmental Relations

3c-01-3sh

Explores characteristics of federal systems of government, with emphasis on theories, origins, institutions, problems in intergovernmental relations in the United States, federal systems in other nations, and trends.

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PS 356 Mass Media in American Politics

3c-01-3sh

Variant theories of the symbolic relationship between American politics and the press are examined in the light of the American colonial-national experience. The special Constitutional rights given to the media are explored, with particular attention to radio-TV.

PS 358 Judicial Process

3c-01-3sh

Prerequisite: PS111

Explores nature and limits of judicial power, courts as policymaking bodies, selection of judges, decision process, external forces impinging on the courts, and role of Supreme Court in its relationship with Congress, the Presidency, and federalism.

PS 359 Constitutional Law and Civil Liberties

3c-01-3sh

Prerequisite: PS111

Study of civil liberties and civil rights issues through leading Supreme Court decisions; topics treated include First Amendment rights, procedural due process and the Bill of Rights, and Equal Protection problems in civil rights.

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PS 360 Classical Political Thought

3c-0l-3sh

Restriction: Not for credit after PH323

The origins and development of Western thought from Plato and Aristotle through Cicero and Saint Aquinas. The focus is especially on political participation as a way of life, the unity of political and moral conceptions in premodern political thought, and the relationship between order and justice.

PS 361 Modern Political Thought

3c-0l-3sh

Covers the major representatives of modern political thought since the Renaissance. Follows the development of the specifically modern notion of the state and political action through the works of Machiavelli, Hobbes, Locke, Rousseau, Marx, and Lenin. Emphasis on the "instrumentalist" state and the idea of a political science.

PS 362 American Political Thought

3c-0l-3sh

Covers a variety of American political ideas from the Puritans through recent radical and conservative critiques of American liberal democracy. Focus on the continuing development of the idea of individual rights, the political theory of the Constitution, and the tension between classical liberalism and popular rule.

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PS 370 Introduction to Public Administration

3c-0l-3sh

Theories of organization and structural organization, personnel processes, executive functions, financial administration, the politics of administration, public relations, and problems of democratic control of bureaucracy.

PS 371 Issues in Public Administration

3c-0l-3sh

Intensive study of the role of federal agencies and their administrators in determining and developing public policy. Public administration in practice is emphasized by utilizing case studies.

PS 377 Political Behavior

3c-0l-3sh

Prerequisites: PC101, PS111

An interdisciplinary course which investigates the psychological bases of political behavior. Cross-listed in Psychology as PC377 Political Behavior.

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PS 380 Soviet Politics

3c-0l-3sh

Essential features of Communist party and government of the former U.S.S.R., including geographical and historical background and ideological and theoretical foundations. PS280 should be taken prior to this course. (Course content is in revision to reflect changing structure.)

PS 382-387 Political Systems

3c-0l-3sh

Intensive, comparative study of the government and politics of a selected region. Suggested prerequisites: PS280 and/or 285; PS382 Africa; PS383 Asia; PS384 Middle East; PS385 Central and Eastern Europe; PS387 Latin America

PS 388 Political-Military Strategy

3c-0l-3sh

Prerequisites: PS281 or PS283 or MS101-102

Deals with national security problems including decision making and budgeting, levels of strategy, the utility of force, and the impact of the military on American society.

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PS 389 Developing Nations

3c-0l-3sh

Suggested prerequisites: PS280 and/or 285

Political characteristics of emerging nations; impact of economic and social change upon political structure; evolving patterns of political development; and techniques of nation-building.

PS 480 Political Science Seminar

3c-0l-3sh

Readings and written assignments on a specific topic determined by the instructor in charge.

PS 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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PS 482 Independent Study

var-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

PS 493 Political Science Internship

var-2-12sh

Prerequisites: 9 sh in Political Science with 2.0 QPA; PS111; approval of internship director and chairperson. Practical experience in government and politics. "Log" and research project required. Course grade determined by the instructor. Maximum of 6sh applied to minimum in major; maximum of 3sh applied to minimum in minor.

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Psychology

Department of Psychology
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[PC101](#) [PC280](#) [PC290](#) [PC291](#) [PC310](#) [PC311](#) [PC312](#) [PC315](#) [PC320](#) [PC321](#) [PC322](#) [PC330](#) [PC331](#) [PC335](#) [PC341](#) [PC342](#)
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[PC450](#) [PC480](#) [PC481](#) [PC482](#) [PC493](#)

PC 101 General Psychology

3c-0l-3sh

An introduction to the scientific study of behavior and mental processes.

PC 280 Psychological Inquiry

3c-0l-3sh

Prerequisites: PC101, Psychology minors

Introduces students minoring in Psychology to issues central to carrying out and interpreting empirical research in the field. Students will become more sophisticated consumers of empirical research findings. Students who have successfully completed PC290 are not permitted to take this course for credit.

PC 290 Research Design and Analysis I

3c-2l-4sh

Prerequisites: PC101, MA217

A laboratory course devoted to designing, conducting, and evaluating results of psychological experiments.

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PC 291 Research Design and Analysis II

3c-2l-4sh

Prerequisites: PC101, "C" or better in PC290

A continuation of Research Design and Analysis I.

PC 310 Developmental Psychology

3c-0l-3sh

Prerequisite: PC101

Comprehensive study of all factors that contribute to human development from conception to death, particularly as they relate to psychological development of individual. A survey course directed at students not planning to take PC311, 312, or 373. Students may receive credit towards the Psychology major or minor for only one of PC310, PC311, or PC315.

PC 311 Child Psychology

3c-0l-3sh

Prerequisite: PC101

Study of factors that influence total development and behavior of child. Current theories and research are considered, with focus upon optimum development of individual. Credit toward a major or minor in psychology will not be given for both PC310 and 311.

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PC 312 Adult Development and Aging

3c-0l-3sh

Prerequisite: PC101

A survey of physiological, cognitive, emotional, and social issues affecting the young adult, the middle-aged, and the elderly. Includes an examination of significant adult life crises.

PC 315 Experimental Development Psychology

3c-21-4sh

Prerequisite: PC280 or PC290

The course will study human development from conception to death with emphasis on the physical, cognitive, and emotional domains. Students will be involved in observation and data collection.

PC 320 Personality

3c-0l-3sh

Prerequisite: PC101

Provides comparative analysis of major representative traditional and contemporary theories of personality.

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PC 321 Abnormal Psychology

3c-0l-3sh

Prerequisite: PC101

The description, causes, and treatment of behaviors labeled abnormal in our society are studied from experimental and clinical points of view.

PC 322 Introduction to Psychological Measurement

3c-0l-3sh

Prerequisites: PC101, MA217

Survey of psychological measurement techniques, with emphasis on theoretical assumptions underlying these techniques and discussion of interpretation and limitations of measuring instruments.

PC 330 Social Psychology

3c-0l-3sh

Prerequisite: PC101

The study of the effects of the social environment on human behavior. Topics include perception of person, attitude formation and change, and small-group interaction. Students may not receive credit toward psychology major or minor for both PC330 and PC335.

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PC 331 Environmental Psychology

3c-0l-3sh

Prerequisite: PC101

The study of the relationship between human behavior and its environmental context. Emphasis on the physical environment, both natural and built.

PC 335 Experimental Social Psychology

3c-21-4sh

Prerequisite: PC280 or PC290

A laboratory course in the effects of the social environment on human behavior. Topics include perception of persons, attitude formation and change, and small-group interaction. Includes experience with social psychological research methods. May not be taken for credit by students who have completed PC330.

PC 341 Conditioning and Learning

3c-21-4sh

Prerequisites: PC101, 290

Examination of the basic principles of learning and related phenomena; discussion of classical conditioning, discrimination learning, and aversive control of behavior.

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PC 342 Human Cognition: Memory and Thinking

3c-21-4sh

Prerequisites: PC101, 290

Study of methods and findings in areas of human memory and human information processing. Students may not receive credit towards the psychology major or minor for both PC342 and PC345.

PC 345 Introduction to Human Cognition

3c-01-3sh

Prerequisite: PC101

This course is designed to provide an overview of cognitive psychology. The Information Processing Model is contrasted with its predecessor, Behaviorism, and its contemporary challenger, Connectionism.

PC 350 Physiological Psychology

3c-21-4sh

Prerequisites: PC101, 290

Study of the relationship between behavior and the anatomy and physiology of the nervous system. Students may not receive credit towards the Psychology major or minor for both PC350 and PC356.

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PC 355 Comparative Psychology

3c-01-3sh

Prerequisite: PC101

Survey of animal behavior patterns and control mechanisms including learning, development, communication, and social behavior. Emphasis is on the relationship of the animal to its environment and on the relationship of animal models to human behavior.

PC 356 Biopsychology

3c-01-3sh

Prerequisites: PC101

Study of the relationship between behavior and the anatomy and physiology of the nervous system.

PC 371 Human Motivation

3c-0l-3sh

Prerequisite: PC101

Systematic study of how behavior is initiated, sustained, directed, and terminated. Current theories in this area are critically reviewed.

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PC 372 Drugs and Behavior

3c-0l-3sh

Prerequisites: PC101 and junior standing or permission

Survey of the current knowledge concerning the actions of drugs. Topics will include legal and social issues surrounding drug use, hazard potential of commonly used drugs, review of current theories and issues regarding the use of drugs in psychotherapy, and consideration of treatment approaches for addiction.

PC 374 Stress and Coping

3c-0l-3sh

Prerequisite: PC101

Fundamental concepts and findings in stress and stress-related disorders. Relationships of stress to disease and methods for coping with stress are presented.

PC 375 Mass Media and Behavior

3c-0l-3sh

Prerequisites: PC 101 and junior or senior status

Theory and research on the influence of the mass media on human behavior and attitudes. Topics include: the effects of news and political advertising on public opinion; the effects of racist and sexist portrayals; and the effects of violence and pornography on aggressive behavior. (Also offered as CM375; may not be taken for duplicate credit)

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PC 376 Psychology of Health Behavior

3c-0l-3sh

Prerequisite: PC 101

An examination of the role of behavior factors in health status with a strong focus on preventive health behaviors and the role of the psychologist in promotion of health-related behavioral changes.

PC 378 Psychology of Death and Dying

3c-0l-3sh

Prerequisite: PC101

Theories and research which delineate the psychological factors affecting the dying person as well as those persons close to one who is dying are discussed.

PC 379 Psychology of Human Sexuality

3c-0l-3sh

Prerequisite: PC101

Provides an overview of the psychological issues and research relevant to sexuality with an emphasis on gender roles. Social, psychological, and gender perspectives are used to examine a number of topics, including contemporary sexual attitudes, sexual response, sexual relationships, sexual dysfunction, sexual variations, sexual preference, and sexual violence. Research pertaining to each topic is presented. Students are encouraged to critically evaluate research and theory and to make connections between the material and their personal experience.

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PC 390 Industrial-Organizational Psychology

3c-0l-3sh

Prerequisites: PC101, MA214/217

The study of psychological principles in work organizations; application of psychological theory to the understanding and explanation of individual behavior and experience in work organizations. May not be taken for credit by students who successfully completed PC425. (Formerly PC420)

PC 410 Historical Trends in Psychology

3c-0l-3sh

Prerequisite: PC101, junior or senior standing or permission

Comprehensive overview of historical antecedents of contemporary psychology with emphasis on their implications for future developments in the field.

PC 411 Psychology of Women

3c-0l-3sh

Prerequisites: PC101, junior or senior standing or permission of the instructor

A critical examination of the assumptions about women which are held by the discipline of psychology, considering both current research and individual experience. The psychological effects of socialization on sex role identity, achievement, interpersonal power, mental health, and critical incidents in female development are discussed in the context of relevant concepts from developmental and social psychology.

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PC 421 Psychology of Work

3c-0l-3sh

Prerequisite: PC291

The analysis, measurement, prediction, and development of human aptitude, ability, and performance in work and employment situations.

PC 425 Experimental Organizational Psychology

3c-21-4sh

Prerequisite: 12 credits of psychology (including PC290, beyond PC101)

Introduces the student to theory, research, and methods in the investigation of human behavior and experience in organizations. Both classical and current literature in the field are discussed. In addition to lecture, students will conduct empirical research projects.

PC 450 Introduction to Clinical Psychology

3c-0l-3sh

Prerequisites: PC101, 320, 321, and permission of instructor

Overview of clinical psychology, with emphasis on clinician's use of methods of evaluation and on treatment and modification of behavior.

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PC 480 Honors Seminar in Psychology

3c-0l-3sh

A seminar in the graduate tradition with a specialized topic. May be taken more than once to a maximum of 6sh.

PC 481 Special Topics in Psychology

var-1-3sh

Prerequisites: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students. May be taken more than once to a maximum of 6sh.

PC 482 Independent Study in Psychology

var-1-3sh

Prerequisites: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office

Individual students pursue their particular interests in psychology in consultation with a member of the staff. May be taken more than once to a maximum of 6sh. Approval is based on academic appropriateness and availability of resources.

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PC 493 Psychological Practicum

var-1-12sh

Prerequisites: PC101 and department consent

Under supervision of psychology department, selected students receive experience in application of psychological techniques. May be taken more than once to a maximum of 12sh.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Quantitative/Business

Department of Management Information Systems and Decision Sciences
Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[QB215](#) [QB281](#) [QB380](#) [QB401](#) [QB481](#) [QB482](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

QB 215 Business Statistics

3c-0l-3sh

Prerequisites: MA121, MA214

Expands upon the probabilistic concepts developed in MA214 to orient the student toward managerial decision making using quantitative methodologies. Topics covered include classical regression analysis, forecasting, Bayesian decision theory, linear programming, and simulation.

QB 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are primarily for lower-level undergraduate students.

QB 380 Introduction to Management Science

3c-0l-3sh

Prerequisite: QB215

Discussion and application of mathematical models used in managerial decision making. Linear programming, Markov processes, queuing theory, EOQ models, and simulation techniques are among the topics covered.

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QB 401 Forecasting Methods for Business

3c-0l-3sh

Prerequisite: QB 215

This course is designed to train the students to understand the nature of forecasting problems and the techniques of forecasting methods and their business applications. Computer statistical packages are incorporated into the course so that forecasting methods and models can be applied to real-world problems, and the relationships that exist between variables can be examined.

QB 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

QB 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Regional Planning

Department of Geography and Regional Planning
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[RP213](#) [RP281](#) [RP313](#) [RP314](#) [RP316](#) [RP332](#) [RP333](#) [RP350](#) [RP352](#) [RP354](#) [RP412](#) [RP415](#) [RP417](#) [RP458](#) [RP464](#) [RP468](#)
[RP481](#) [RP482](#) [RP493](#)

RP 213 Cartography I

3c-0l-3sh

Introduces students to principles of thematic map construction. Emphasis is on the techniques of choropleth mapping and the production of scientific graphs and charts. (Also offered as GE213; may not be taken for duplicate credit)

RP 281 Special Topics

3c-0l-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students. (May also be offered as GE281; may not be taken as duplicate credit under same title)

RP 313 Cartography II

3c-0l-3sh

Prerequisite: RP 213

Gives an understanding of the compilation and use of maps and quantitative data. Develops skills essential to the construction of various types of maps. (Also offered as GE313; may not be taken for duplicate credit)

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RP 314 Map and Photograph Interpretation

3c-0l-3sh

Maps and air photographs, along with remote sensing materials, permit inventory and analysis of geologic, land use, urban development, and other landscape phenomena. The understanding of these materials and associated tools for their use is presented. (Also offered as GE314; may not be taken for duplicate credit)

RP 316 Introduction to Geographic Information Systems

3c-0l-3sh

Prerequisite: RP 213, or equivalent, or permission of instructor

Automated methods for creating, maintaining, and analyzing spatial data are presented. Topics include 1) specialized GIS hardware and software, 2) vector vs. raster vs. object-oriented spatial data structures, 3) creation and manipulation of geographic data files, 4) data base design and management concepts, 5) spatial analysis, and 6) cartographic design. (Also offered as GE316; may not be taken for duplicate credit)

RP 332 Urban Geography

3c-01-3sh

Basic concepts of urban geography including site, situation, function, urban land use, urban structure, and urban hierarchy are introduced. Relationships between urban geography and urban planning are explored. (Also offered as GE332; may not be taken for duplicate credit)

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RP 333 Trade and Transportation

3c-01-3sh

Deals with the spatial aspects of transportation systems and their use. Circulation, accessibility, time and distance concepts, and trade patterns are discussed. (Also offered as GE333; may not be taken for duplicate credit)

RP 350 Introduction to Planning

3c-01-3sh

Introduction to the profession and activity of contemporary American urban and regional planning. Course emphasis is placed on land use control, design, growth management, and development regulation. The legal and institutional bases of planning practice are covered as well. (Offered as GE360, Introduction to Planning prior to 1996-97)

RP 352 Planning Methods

3c-01-3sh

Prerequisite: RP 350

Research, analytical design, and plan-making techniques in urban and regional planning. Examines basic items necessary to prepare urban and regional comprehensive plans. (Also offered as GE352; may not be taken for duplicate credit.) (Offered as GE361, Planning: Basic Studies and Analysis prior to 1996-97)

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RP 354 Planning Design

3c-01-3sh

Prerequisite: RP 350

Presents concepts of city, subdivision, and transportation design in relation to topography, natural resources, and other physical elements. (Offered as GE463, Planning: Design prior to 1996-97)

RP 412 Research Seminar

3c-01-3sh

Prerequisite: RP468

This senior seminar and workshop is a capstone course that focuses on recent research in the major field. Students carry out a research project on a topic of local or regional importance. (Also offered as GE412; may not be taken for duplicate credit) (Offered as GE312, Research in Geographical Planning prior to 1996-97)

RP 415 Remote Sensing

3c-01-3sh

Deals with air photographs, satellite imagery, thermal sensing, and radar imagery and their application to deriving information about the earth's physical and cultural landscapes. (Also offered as GE415; may not be taken for duplicate credit)

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RP 417 Geographic Information Systems Applications Development

3c-0l-3sh

Prerequisite: RP 316 Introduction to GIS

A project-based class in which students learn the skills to develop and maintain a Geographic Information System. Through cooperative learning students will design and implement functional systems. Methods for designing GIS systems to user specification, data collection, data input, project management, and system documentation are covered. (Also offered as GE417; may not be taken for duplicate credit)

RP 458 Land Use Law

3c-0l-3sh

Prerequisite: RP 350

Introduces students to principles of land use law. The course focus is on federal constitutional principles and key Supreme Court cases, especially as they relate to actions of local units of government and municipal planning practice. The course deals with the present state of land use law and with current trends and issues.

RP 464 Land Use Policy

3c-0l-3sh

Prerequisite: RP 350

Introduces students to and provides an overview of land use issues at the regional, state, and federal levels. Emphasis is placed upon the evolution of contemporary policy strategies, constitutional issues, and regional controversies involved in the regulation of metropolitan growth, central city decline, and management of public lands. (Also offered as GE464; may not be taken for duplicate credit)

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RP 468 Planning Theory

3c-0l-3sh

Prerequisite: RP 350, RP 352, RP 354, or permission of instructor

Seminar on contemporary debates concerning planning traditions, principles, and practices. The activity of planning is investigated from several theoretical frames and analytic positions. (Offered as GE462, Planning: Development, Principles, and Theory prior to 1996-97)

RP 481 Special Topics

3c-0l-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students. (May also be offered as GE481; may not be taken for duplicate credit under same title)

RP 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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RP 493 Internship

var-1-12sh

Professional learning experience with emphasis on application of academic background. Open to majors and minors in regional planning with a total of 57 semester hours and 15 hours in the major. See internship supervisor for additional

information.

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Rehabilitation

Department of Special Education and Clinical Services
College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[RH200](#) [RH211](#) [RH220](#) [RH281](#) [RH312](#) [RH321](#) [RH322](#) [RH360](#) [RH410](#) [RH412](#) [RH422](#) [RH460](#) [RH481](#) [RH482](#) [RH484](#)
[RH488](#) [RH493](#)

RH 200 Introduction to Rehabilitation

3c-0l-3sh

A foundation for subsequent courses in the rehabilitation sequence. It is also available as a prerequisite or basic course for students interested in the rehabilitation of individuals in our society. Content includes the philosophy, history, major concepts, and current problems and issues.

RH 211 Medical Aspects of Rehabilitation

3c-0l-3sh

Provides an overview of the etiology and pathology of a range of medical disorders which often require rehabilitative services. Emphasis is placed upon the psychosocial and functional effects of these disorders, vocational implications, and rehabilitative needs.

RH 220 Neurological Basis of Disability

3c-0l-3sh

Prerequisites: EX111, RH200, BI155 or HP221

Study of the brain and spinal cord with emphasis on cortical and subcortical mechanisms instrumental in normal motion, coordination, and bodily sensation, exclusive of vision and hearing. Discussion and demonstration of conditions of cerebral palsy, poliomyelitis, traumatic paraplegics, cerebrovascular accident, Parkinson's disease, multiple sclerosis, and rehabilitative procedures.

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RH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

RH 312 Psychological Basis of Disability

3c-0l-3sh

Study of emotional and social responses which govern behavior and relationships of handicapped individuals and rehabilitation workers alike, with emphasis on the role of disability in formation of the concept of human worth.

RH 321 Principles and Methods of Rehabilitation

3c-01-3sh

Prerequisites: RH220, RH312, and permission of instructor

Delineates the roles of members of professional disciplines of medicine, psychology, prosthetics, orthodontics, audiology, speech pathology, physical and occupational therapy in restoration of the handicapped; use of diagnostic information; significance and interpretation of medical examination; role of rehabilitation counselor in the agency.

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RH 322 Rehabilitation Case Study and Interpretation

3c-01-3sh

Prerequisites: RH220, RH312, or permission of instructor

Purpose and techniques of case history taking; meaning and evaluation of diagnostic information; psychological evaluation in terms of mental ability, personality, attitudes, and dexterity skills; role of disabled individual's family in planning of services; referrals and report writing.

RH 360 Rehabilitation Counseling: Strategies

3c-01-3sh

Prerequisites: Permission, Rehabilitation majors only

Designed to help students develop competencies in using various counseling techniques with handicapped persons. Various theories of counseling will be explored relative to the rehabilitation setting. It will provide basic counseling skills to upperclass Rehabilitation majors prior to field training.

RH 410 Vocational Assessment in Rehabilitation Counseling

3c-01-3sh

Prerequisites: EX111, RH220, or faculty permission

Provides students with an overview of vocational assessment techniques and instruments for use with rehabilitation clients who are blind, deaf, mentally retarded, or severely physically handicapped. Includes discussion of rehabilitation evaluation.

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RH 412 Occupational Aspects of Rehabilitation

3c-01-3sh

Prerequisites: RH220 or permission of instructor

The realism of the world of work and relationship of gainful employment to human autonomy and decision making. Types of jobs, levels of required skills, potential capabilities of the disabled relative to specific job responsibilities, methods of assessing potential job success, and sheltered workshops.

RH 422 Current Topics in Rehabilitation

3c-01-3sh

Taken concurrently with RH488 and RH493

Discussion of current topics of interest in the field, such as state and federal legislation, new prosthetic advances, proposals of the National Rehabilitation Association, or recent techniques in working with specific disabilities.

RH 460 Advanced Rehabilitation Counseling

3c-01-3sh

Prerequisite: RH360

Selected counseling techniques studied and practiced under supervision. Application will be utilized in roles that will approximate the kind of clients encountered in field training.

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RH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

RH 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

RH 484 Directed Rehabilitation Activities

var-3sh

Prerequisites: Permission, Rehabilitation majors only

Pre-field training experience working with handicapped clients in local facilities. Concrete experience will help the students integrate classroom instruction with field experiences.

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RH 488 Field Training in Rehabilitation I

var-6sh

Prerequisites: All major courses in program

Emphasizes development of the student rehabilitation coordinator by working with disabled clients in a public or private agency. Writing and analysis of case reports, counseling of clients, understanding of agency responsibilities and limitations, referral, follow-up, and final evaluation of the client's ability to function with various degrees of autonomy. Taken concurrently with RH493 and RH422.

RH 493 Field Training in Rehabilitation II

var-6sh

Prerequisite: All major courses in program

Provides a second field experience. Taken concurrently with RH488 and RH422.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Religious Studies

Department of Philosophy and Religious Studies
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[RS100](#) [RS110](#) [RS200](#) [RS210](#) [RS250](#) [RS260](#) [RS281](#) [RS290](#) [RS311](#) [RS312](#) [RS329](#) [RS360](#) [RS365](#) [RS370](#) [RS375](#) [RS380](#)
[RS410](#) [RS440](#) [RS481](#) [RS482](#) [RS493](#)

RS 100 Introduction to Religion

3c-0l-3sh

An introduction to the academic study of religion through an examination of various dimensions of religious expression and traditions. The course will cover such areas as problems about definition of religion; approaches to the study of religion; the goals, language, and rituals of religion; cases of religious experience; faith, disbelief, and alternatives to religion; religion and the sociocultural context.

RS 110 World Religions

3c-0l-3sh

A comparative study of the history, teaching, and rituals of the major religions of the world and their influence on contemporary society. A nonsectarian approach to religions such as Native American religion, Afro-American religion, Judaism, Christianity, and Islam in relationship to Hinduism, Buddhism, Confucianism, Taoism, and Shinto.

RS 200 Religion and Culture: Their Interaction

3c-0l-3sh

A systematic study of the interaction of religions and various components of culture, as a way of understanding the phenomenon of religion. The approach is functional and descriptive; it uses case studies which are chronologically and culturally diverse, covering such areas as religion and politics, economics, arts, science, and literature.

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RS 210 World Scriptures

3c-0l-3sh

Major sacred writings of Hindu, Buddhist, Zoroastrian, Moslem, Confucian, Taoist, and Judeo-Christian traditions will be studied from point of view of their religious significance.

RS 250 Understanding the Bible

3c-0l-3sh

An introduction to scholarly methods and major themes necessary to understand the Hebrew Scriptures and the New Testaments of the Judeo-Christian tradition.

RS 260 American Religious Development

3c-0l-3sh

A survey and analysis of topics which depict the role of religion in the U.S., e.g., American Indian religion; religion and the discovery/colonization/immigration trends of the U.S.; religion and the Constitution; indigenous religious movements; black religion; ecumenism; atheism; cults; mass media and religion; religion in Indiana County.

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RS 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

RS 290 Christianity

3c-0l-3sh

A study of the beliefs, practices, significant persons, history, and cultural impact of Christianity.

RS 311 Eastern Philosophy

3c-0l-3sh

An examination and critique of the philosophies which have shaped Eastern world views and ways of life as found in a representative sampling of Chinese, Japanese, and Indian thought.

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RS 312 Archaeology and the Bible

3c-0l-3sh

An investigation of religious-historical traditions of the Bible in light of archaeological research. Will include study of archaeological method and interpretation, discoveries in Egypt, Mesopotamia, and Syro-Palestine as background for understanding the traditions and religious practices and beliefs of Israel, and special questions surrounding the Patriarchal narratives, the Exodus and Conquest, Israel under David and Solomon, the Dead Sea Scrolls, and New Testament times.

RS 329 Philosophy of Religion

3c-0l-3sh

This course is a philosophical critical examination of religion to include: the nature of religion; religious argumentation; existence and nature of God; meaning and relation of faith and knowledge; theories of origin or religion. (Offered as PH329 prior to 1995-96)

RS 360 African Religions

3c-0l-3sh

An examination of the nature of African traditional religion and how traditional religion, Islam, and Christianity coexist and influence each other.

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RS 365 Native North American Religions

3c-0l-3sh

An introduction to the indigenous religions of North America and to the peoples who practice these rich and varied approaches to the sacred. This course not only examines major religious themes and dimensions (myth, ritual, ethics, etc.) but includes an historical perspective on North American Indian lifeways. This perspective involves discussion of the clash with Euro-American values and contemporary native religious responses to social crisis and change.

RS 370 Religions of China and Japan

3c-0l-3sh

A study of Confucianism, Taoism, Buddhism, Shinto, and popular religion in China and Japan, including historical and theological foundations, development of thought, contemporary expressions, and encounters with the modern world.

RS 375 Religions of India

3c-0l-3sh

A study of Hinduism, Indian Buddhism, Jainism, and Sikhism, including historical and theological foundations, development of thought, contemporary expressions, and encounters with the modern world.

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RS 380 Islam

3c-0l-3sh

A study of Islam including historical and theological foundations, developments of thought, contemporary expressions, and encounters with the modern world.

RS 410 History of Christian Thought I

3c-0l-3sh

The development of Christian thought approached through an in-depth study of selected writings from the early Church Fathers to the Protestant Reformers.

RS 440 Modern Christian Thought

3c-0l-3sh

An examination of Christian thought, approached through in-depth study of selected writings from major theologians of the nineteenth and twentieth centuries.

RS 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

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RS 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office
Individual students wishing to pursue religious studies interests not covered in the department's regular offering may do so by approval. Upon approval students are guaranteed at least five hours of faculty time per credit. All programs of study must be accepted by the department as a whole. May be taken more than once to maximum of 6sh. (This option is available to both Religious Studies majors and nonmajors.)

RS 482 Independent Study: Honors

3c-0l-3sh

Prerequisites: 3.00 QPA, 15sh in Religious Studies, and 3.20 average in departmental courses

Majors in Religious Studies are invited to take 3sh of independent study-designated Honors Project. Upon satisfactory completion, graduation with departmental honors is possible.

RS 493 Internship in Religious Studies

6-12sh

Prerequisites: Junior or senior; Religious Studies major or double major; 2.5 QPA in major; department approval
Supervised experience in a public or private organization which extends and complements coursework in Religious Studies.

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Respiratory Care

Allied Health Professions Programs College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[RT326](#) [RT327](#) [RT328](#) [RT329](#) [RT330](#) [RT331](#) [RT333](#) [RT334](#) [RT335](#) [RT336](#) [RT337](#) [RT426](#) [RT427](#) [RT428](#) [RT429](#)
[RT430](#) [RT431](#) [RT433](#) [RT434](#) [RT436](#) [RT437](#) [RT438](#) [RT481](#)

RT 326 Respiratory Care Clinical Practice I

var-3sh
First exposure to patient care. Introduction and practice of basic respiratory care treatment modalities receive emphasis.

RT 327 Pharmacology

3c-0l-3sh
Introduction to pharmacology and therapeutics. Emphasis placed on the drugs used in respiratory care. Drug classification, action, usage, dosage, and availability will be discussed.

RT 328 Introduction to Respiratory Care

4c-0l-4sh
Topics include medical terminology and an overview of cellular structure and function. Emphasis is placed on neurophysiology, respiratory anatomy, and physiology.

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RT 329 Respiratory Care Instrumentation

4c-0l-4sh
Introduction to basic respiratory care equipment and related procedures. Special emphasis will be placed upon the rationale and techniques of oxygen administration.

RT 330 Cardiopulmonary Resuscitation

2c-0l-2sh
Comprehensive analysis of the principles and practices of numerous methods of resuscitation.

RT 331 Introduction to Ventilator Management

1c-0l-1sh
This course is designed to establish competence in changing ventilator tubing circuitry in the laboratory situation. Introductory principles, techniques, and theory of ventilator application will also be explored.

RT 333 Respiratory Care Clinical Practice II

var-4sh

Treatment procedures introduced in Clinical I are continued with greater emphasis on independence. Specialty rotations are added to broaden exposure to respiratory care and critical care.

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RT 334 Respiratory Care Instrumentation and Application

4c-01-4sh

Provides students with a comprehensive knowledge of mechanical ventilation. The care of critically ill and physiologic consequences of mechanical ventilation will be discussed.

RT 335 Nursing Arts

3c-01-3sh

An overview of the history of respiratory care and nursing. Topics include medical records, infection control, sterilization, and psychosocial aspects of illness.

RT 336 Cardiopulmonary Evaluation and Clinical Correlation

4c-01-4sh

Disease states of the pulmonary and related systems are investigated in progression from etiology through treatment and prognosis.

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RT 337 Introduction to Pulmonary Function Studies

1c-01-1sh

The student is introduced to the basic principles of lung volumes, capacities, and their measurement. Blood gas sampling and electrodes are also explored.

RT 426 Respiratory Care Clinical Practice III

var-5sh

Respiratory care treatment procedures are continued with emphasis on improving proficiency and refining skills. Students will make rounds with physicians.

RT 427 Applied Pulmonary Physiology

4c-01-4sh

Various aspects of pulmonary physiology will be discussed and applied to acid-base and blood gas analysis and interpretation.

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RT 428 Essentials of Electrocardiography

2c-01-2sh

Designed to acquaint the student with basic principles in cardiac electro-diagnostics. Topics include the technique of ECG testing and fundamentals of ECG arrhythmia recognition.

RT 429 Design and Function of a Respiratory Care Program

2c-01-2sh

Basic management principles as they apply to the hospital setting; in particular, respiratory care departments and schools will be discussed.

RT 430 Pulmonary Function Studies

2c-01-2sh

Prerequisite: RT337

Principles, techniques, and equipment employed in pulmonary diagnostics are explored. Diagnostic studies include basic spirometry, flow-volume loops, diffusion studies, exercise testing, bronchoprovocation studies, and small airways diagnostics.

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RT 431 Pediatric Respiratory Care

1c-01-1sh

Prerequisites: RT334 and RT336

The application of respiratory care to children ages six months to fifteen years is explored. Cardiopulmonary pathophysiology and treatment for the following disorders are discussed: Croup, Epiglottitis, Asthma, Cystic Fibrosis, Congenital Heart Defects, Abdominal and Chest Wall Defects.

RT 433 Respiratory Care Clinical Practice IV

var-5sh

Rotations on treatment and intensive respiratory care are continued. Advanced rotations are included.

RT 434 Neonatal Respiratory Care

3c-01-3sh

Basic terminology, anatomy, and pathophysiology of obstetric, fetal, neonatal, and pediatric patients will be presented.

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RT 436 Respiratory Care Teaching

2c-01-2sh

An introduction to respiratory education.

RT 437 Methods in Critical Care

2c-01-2sh

Critical Care diagnostic and therapeutic modalities pertinent to respiratory care will be discussed. Topics include invasive and noninvasive cardiac monitoring, pulmonary monitoring, neurological assessment, ventilator commitment, and discontinuance.

RT 438 Cardiopulmonary Rehabilitation

1c-01-1sh

Techniques and principles associated with cardiopulmonary rehabilitation programs are surveyed. Topics also include the management of chronic pulmonary disease in the home and the application of respiratory equipment and mechanical ventilators in this setting.

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RT 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Safety Sciences

Department of Safety Sciences
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[SA101](#) [SA102](#) [SA111](#) [SA210](#) [SA211](#) [SA231](#) [SA232](#) [SA245](#) [SA281](#) [SA299](#) [SA301](#) [SA303](#) [SA311](#) [SA345](#) [SA347](#)
[SA370](#) [SA380](#) [SA399](#) [SA401](#) [SA402](#) [SA412](#) [SA441](#) [SA461](#) [SA462](#) [SA472](#) [SA481](#) [SA482](#) [SA488](#) [SA493](#)

SA 101 Introduction to Occupational Safety and Health

3c-0l-3sh

Covers the theory and history of occupational hazard control, effects of hazards and failures on organizational control and productivity, safety and health legislation, and accident causation. The course also previews aspects of recognizing, evaluating, and understanding control of safety and health hazards, acquiring hazard data, and the use of hazard analytical tools. Communication techniques in safety and health management are stressed, along with the development of safety and health programs.

SA 102 Introduction to Mine Safety and Health

3c-0l-3sh

Designed to provide the student with an in-depth background of the problems involving mine safety. An historical approach to coal and mineral mining is reviewed; legislative influences such as the Federal Coal Mine Health and Safety Act, the Metal and Nonmetal Mine Health and Safety Act, and the Occupational Safety and Health Act are discussed in depth; mining techniques, methods, and systems are discussed. Management of mine health and safety programs is presented. Federally mandated training of employees is covered. [Offered occasionally]

SA 111 Principles of Industrial Safety I

3c-0l-3sh

Prerequisite: SA101

Stresses an understanding of the complexity of the industrial hazard control problem by thoroughly examining elements of safety and health enumerated in the OSHA promulgated standards and various consensus standards. Emphasis directed at plant layout and design, powered industrial vehicles, boilers and unfired pressure vessels, machine guarding, robotics safety, and an introduction to industrial processes.

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SA 210 Environmental Safety and Health Regulations

3c-0l-3sh

Prerequisites: CH102, SA101, or permission of instructor

This course offers the student a practical approach to the understanding of, and compliance with, the various environmental regulations that impact on business. A thorough discussion of the definitions, categories, and evaluation of hazardous materials is included. Environmental laws covered include the Clean Water Act, the Clean Air Act, the Resource Conservation and Recovery Act, the Comprehensive Environmental Response, the Compensation and Liability Act, the Occupational Safety and Health Act, and other related laws.

SA 211 Principles of Industrial Safety II

3c-0l-3sh

Prerequisite: SA111

Stresses an understanding of the complexity of the industrial hazard control problem by thoroughly examining elements of safety and health enumerated in the OSHA promulgated standards and various consensus standards. Emphasis is placed on personal protective equipment, welding and cutting, walking and working surfaces, materials handling and storage, electrical safe work practices, and construction safety. Application of hazard control strategies is accomplished in laboratory sessions.

SA 231 Principles of Mine Safety I

3c-0l-3sh

Prerequisite: SA102

Focuses on the various aspects of mining operations such as slope and shaft development; mine design; ground control; hoisting; man-trips; haulage; mining equipment; mine emergency planning and procedures; mine communications and maintenance. [Offered occasionally]

SA 232 Principles of Mine Safety II

3c-0l-3sh

Prerequisite: SA102

Covers surface mining operations such as slope stability, equipment, ground water, and control. Mine-related processing operations are discussed. Provides an in-depth study of the various controls of electrical hazards and ignition sources such as permissible equipment and electrical distribution systems. The uses of explosives and blasting practices, handling, storing, and transportation with emphasis on causes of explosion involving dust and gases are discussed. [Offered occasionally]

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SA 245 Product Safety

3c-0l-3sh

Prerequisite: MA217

Traces flow of applicable legislation dealing with consumerism and product safety. Corporate liability for product safety emphasized through case studies. Student familiarized with evolving role of Consumer Product Safety Commission. Corporate management of product development and safety detailed with emphasis on systems safety analysis, standards, and product testing.

SA 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

SA 299 Cooperative Education I

0c-0l-0sh

Prerequisites: Approval of academic adviser, co-op coordinator, and department chairperson

The initial experience in a program designed to combine classroom theory with practical application through job-related experiences. The course is open to SA majors and minors usually in their sophomore year. Students are employed by organizations outside western Pennsylvania where there is an ongoing hazard control program under the direction of an experienced professional. The student is required to be in good academic standing and to serve a minimum of two alternating work experiences.

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SA 301 Health Hazard Identification

3c-0l-3sh

Prerequisites: CH102, PY111, MA122, BI155

Provides an understanding of the primary health hazards found in industry and their effects on the human body. Students learn to recognize hazards involved with air contaminants, noise, heat, radiation, chemicals on the skin, and other stressors. Emphasis is placed on the study of occupational disease, industrial toxicology, and use of threshold limit values.

SA 303 Control of Health Hazards

3c-0l-3sh

Prerequisites: SA301, PY112, MA217

Study of engineering, administrative, and personal protective equipment as methods of reducing or eliminating hazards to the health of industrial workers. Topics covered include industrial ventilation, noise control, heat control, radiation control, personal protective equipment, and industrial health program.

SA 311 Industrial Fire Protection

3c-0l-3sh

Prerequisites: CH102, PY112, SA211

Introduces fundamental concepts in protection of industrial workers and property from fire and explosion. Fire chemistry, control of ignition sources in industry, and properties of combustible materials are discussed. Fire detection and extinguishment are covered along with building construction for fire prevention, life safety, fire codes, and related topics.

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SA 345 Systems Safety Analysis

2c-3l-3sh

Prerequisites: SA111, SA211, MA217

Focuses on the evaluation of system designs using detailed system analysis techniques. Topics covered include system definition, economics of systems safety, systems safety methodology, mathematics of systems analysis including statistical methods, Boolean Algebra, and reliability. Skills gained include the ability to perform preliminary hazard analysis, failure mode and effect analysis, fault tree analysis, and exercises in the application of fault tree analysis to hardware and man/machine systems. Practical analysis work is accomplished in laboratory sessions.

SA 347 Ergonomics

2c-3l-3sh

Prerequisites: SA301, BI155

An exploration of the principles which control human performance and its effect upon the safety and reliability of systems. Engineering anthropometry, human perception, biomechanics of motion and work posture, work physiology and human performance measurement are covered in the context of their application in workplace design. Students will be instructed in methodologies for analysis of tasks and human performance requirements. Important human limitations and ergonomic hazard evaluations, such as lifting and repetitive motion tasks, are studied in laboratory sessions.

SA 370 Fleet Safety

3c-0l-3sh

Prerequisites: SA101, junior standing

Includes topics involved with the development and operation of motor fleet safety programs: driver selection and

training, accident investigation and recordkeeping, equipment safety features, preventive maintenance, and driver incentive programs.

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SA 380 Institutional Safety Management

3c-01-3sh

Prerequisite: Junior standing

Historical aspects of safety for both private and public institutions; introduction to trends in liability and institutional safety regulations. Distinctions will be made between employee, visitor, and patient hazards and their control.

SA 399 Cooperative Education II

0c-01-0sh

Prerequisite: SA 299

A second experience in a program designed to combine classroom theory with practical application through job-related experiences. The course is open to SA majors and minors usually in their junior or senior year. Students are employed by organizations outside western Pennsylvania where there is an ongoing hazard control program under the direction of an experienced safety professional. The student is required to be in good academic standing and to serve a minimum of two alternating work experiences.

SA 401 Mine Ventilation

2c-31-3sh

Prerequisites: PY112, SA102, MA122, or consent

Study of mine ventilation principles and practices which provide a basic knowledge in design and operation of mine ventilation systems. The topics of airflow physics, ventilation standards, fan fundamentals, pressure losses, required air flows, and overall design are discussed. Specific problems in mine ventilation will be solved. [Offered occasionally]

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SA 402 Health Hazard Evaluation

2c-31-3sh

Prerequisites: SA301, PY112, MA217

A lecture/laboratory course which provides a basic understanding of techniques used in measuring and evaluating the magnitude of health hazards in industry. Laboratory sessions provide experience in air sampling, noise measurement, heat measurement, particle size analysis, chemical analysis, and evaluation of industrial ventilation systems.

SA 412 Evaluation of Safety Program Effectiveness

3c-01-3sh

Prerequisites: MA217, MG311, junior standing

Teaches various safety management techniques to identify and prevent the occurrence of hazardous behavior and conditions. Devises methods capable of extracting accurate, meaningful data, methods of collecting, codifying, and processing hazard and loss incident information, and utilizing data retrieval systems to be used in cost/benefit decision-making for hazard prevention, safety program and performance evaluation, and risk management.

SA 441 Accident Investigation

3c-01-3sh

Prerequisites: SA101, junior standing or consent

Focuses on various aspects of accident investigation such as recent theories associated with accident causes, investigative techniques, data acquisition, structure of investigative reports, management responsibilities, and remedial actions. Particular emphasis on determining sequence of events to develop management actions which will prevent recurrence of accidents.

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SA 461 Air Pollution

3c-01-3sh

Prerequisite: SA301 or consent

Focuses on various major aspects of the air pollution problem. Includes sources of pollution, evaluation and engineering of pollutants, government regulations, atmospheric chemistry and dispersion, and human and nonhuman effects. Particular emphasis on information that is practical for the safety management, industrial health, or environmental health professional.

SA 462 Radiological Health

3c-01-3sh

Prerequisite: SA301 or consent

Study of problems associated with ionizing radiation in human environment. Emphasis given to biological effects, radiation measurement, dose computational techniques, exposure control, and local and federal regulations. Study and use of various radiological instruments included.

SA 472 Process Safety in the Chemical Industry

3c-01-3sh

Prerequisites: SA301, SA311, SA345, and senior standing, or permission of instructor

This course is designed to cover all important aspects of loss prevention as it is practiced in the chemical process industries. Its objective is to prepare the safety professional so that he/she may be able to work more effectively with chemists and chemical engineers in joint hazard identification, evaluation, and control projects.

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SA 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

SA 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

SA 488 Internship

12sh

Prerequisites: Senior standing, all required courses in major, minimum of 2.8 overall and 3.0 GPA in major, and consent

This course is a practicum conducted at an approved occupational setting up to 500 miles away from IUP. Students are required to conduct four major projects over the course of the summer. One project will be from each of the following areas: Safety Management, Industrial Safety, Industrial Hygiene, and Fire Protection. Students are accountable to an on-site supervisor and are required to remain in close contact with a Safety Sciences faculty coordinator. Offered in summer only.

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SA 493 Internship

var-6sh

Prerequisite: Senior standing, all required courses in major

All Safety Sciences majors are expected to take this course. It is conducted away from the university at various industrial enterprises. Students are required to provide their own transportation. Intended to allow the student to apply hazard assessment and safety management practices to actual industrial situations while at same time being exposed to complexities of industrial environment.

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Science

College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[SC101](#) [SC102](#) [SC103](#) [SC104](#) [SC105](#) [SC106](#) [SC281](#) [SC481](#) [SC482](#)

SC 101 Fundamentals of Physics

2c-2l-2.5sh

Prerequisite: Elementary Education major or instructor permission

A conceptual course in physics for Elementary Education majors. High school physics is not a prerequisite. Class and lab presentations concentrate upon dispelling naive concepts and developing a better understanding and appreciation of the physical world. The topics of motion, heat, light, sound, electricity, magnetism, and the nucleus are presented in context with our everyday experiences. This course does not fulfill the Liberal Studies requirement except for majors in Elementary and Early Childhood Education.

SC 102 Fundamentals of Chemistry

2c-2l-2.5sh

Prerequisite: Elementary Education major or instructor permission

A survey of chemical principles and concepts. The nature of chemical reactions as applied to technology and its applications to society. The world of consumer chemistry will be explored. The goal is to develop a chemical literacy for the student. A series of laboratory exercises develops concept understanding and process skills. Some individual and group projects will be included. This course does not fulfill the Liberal Studies requirement except for majors in Elementary and Early Childhood Education.

SC 103 Fundamentals of Earth and Space Science

2c-2l-2.5sh

Prerequisites: SC101, SC102

Introduction to geology, astronomy, oceanography, and meteorology for Elementary Education majors. Emphasis is placed on the understanding of large-scale processes and how the earth, solar system, and universe work. Lab experiences include hands-on work with earth materials and with instruments from all of our subjects, map, and field trips which may occur during class times, nights, and weekends. This class does not fulfill the Liberal Studies requirement except for majors in Elementary and Early Childhood Education.

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SC 104 Fundamentals of Environmental Biology

2c-2l-2.5sh

Prerequisites: SC101, SC102

A basic introduction to the major concepts and principles of ecology and their application to modern living for majors in Elementary and Early Childhood Education.

SC 105 Physical Science I

3c-2l-4sh

A descriptive and conceptual course in physics for the non-Science major. High school physics is not a prerequisite. Course content is designed to develop an understanding and appreciation of the physical world around us, to produce changes in attitude and background essential for our modern society, and to clarify the following topics: motion, heat, sound, light, electricity, magnetism, and the structure of matter.

SC 106 Physical Science II

3c-2l-4sh

A basic course in environmental and consumer chemistry for the non-Science major. High school chemistry is not a prerequisite. Major topics include humankind's use and abuse of soil, water, air and energy resources, global food production and hunger, the nuclear industry, and the threat of nuclear war. Consumer topics include vitamins and nutrition, food additives, pesticides, and drugs.

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SC 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

SC 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

SC 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Social Work

Department of Sociology
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[SW238](#)

SW 238 Introduction to Social Work

3c-0l-3sh

Prerequisite: SO151 or AN110

Introduction to the dynamics of helping relationships.

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Sociology

Department of Sociology
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[SO151](#) [SO231](#) [SO233](#) [SO251](#) [SO271](#) [SO272](#) [SO273](#) [SO274](#) [SO281](#) [SO286](#) [SO301](#) [SO302](#) [SO303](#) [SO314](#) [SO320](#)
[SO333](#) [SO335](#) [SO336](#) [SO337](#) [SO340](#) [SO341](#) [SO342](#) [SO345](#) [SO348](#) [SO352](#) [SO357](#) [SO361](#) [SO362](#) [SO363](#) [SO380](#)
[SO421](#) [SO427](#) [SO428](#) [SO447](#) [SO448](#) [SO456](#) [SO457](#) [SO458](#) [SO459](#) [SO480](#) [SO481](#) [SO482](#) [SO483](#) [SO493](#)

SO 151 Principles of Sociology

3c-0l-3sh

Scientific study of structure and functioning of human societies, with special attention to factors responsible for the organization and transformation of sociocultural systems. Specific course content varies from one instructor to another.

SO 231 Contemporary Social Problems

3c-0l-3sh

Exploration of some pressing problems currently endemic to Western society. Problems are defined and solutions explored in light of historical, political, economic, social, and anthropological data.

SO 233 Language and Culture

3c-0l-3sh

Focuses on social and cultural functions of language. Particular emphasis on analysis of non-Western languages. (Previous title: Cultural Symbolism: Language in Culture and Society)

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SO 251 Sociology of Human Sexuality

3c-0l-3sh

In-depth analysis of a formerly taboo topic, human sexuality. Current information from biological, psychological, and sociological research on human relationships is presented to provide a foundation for self-understanding and societal values.

SO 271 Cultural Area Studies: Africa

3c-0l-3sh

Explores the cultural diversity of the continent of Africa. The first unit examines the historical processes which shape modern society, including the formation of indigenous African empires, the evidence for trade routes, slave trading, and colonialism. The second unit examines the nature of African traditional societies, including analyses of forager and agricultural groups. The last unit covers issues of contemporary development in Africa such as famine and agricultural policy, the status of women in economic development, and apartheid. Reading includes ethnographic and historical accounts of African society as well as selections by African writers on the issues of contemporary society. (Also offered as AN271; may not be taken for duplicate credit)

SO 272 Cultural Area Studies: China

3c-0l-3sh

Designed to assist the student in developing an understanding of contemporary China. While the course will begin with prehistoric and historic aspects of China, the focus will be on contemporary issues presented in the context of sociological theory. Specific Chinese cultural components that will be investigated include values, attitudes, norms, social organization, linguistics, and folklore. (Also offered as AN272; may not be taken for duplicate credit)

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SO 273 Cultural Area Studies: Southeast Asia

3c-0l-3sh

An introduction to the peoples and cultures of Southeast Asia. Prehistory and the development of indigenous states in Southeast Asia and analysis of impact of world religions, such as Islam, and Western colonialism. Also examines modern hunter-gatherer and farming societies and discusses contemporary issues in social and economic change, including the "Green Revolution," tropical deforestation, the struggle of ethnic minority tribal peoples, and the plight of Indochinese refugees. (Also offered as AN273; may not be taken for duplicate credit)

SO 274 Cultural Area Studies: Latin America

3c-0l-3sh

An introduction to the peoples and cultures of Latin America. Focuses on the prehistory and development of pre-Columbian complex societies in Mesoamerica and the Andes and analyzes the impact of European colonialism on these major regions. Also examines contemporary issues, such as civil wars, economic development, rural-urban migrations, and migration and immigration of Latin American peoples into the United States. (Also offered as AN274; may not be taken for duplicate credit)

SO 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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SO 286 Marriage, Kinship, and the Family

3c-0l-3sh

Sociological and anthropological study of patterns of marriage, kinship, and family life, with emphasis on the relationship between family patterns and other social institutions. Topics covered include the family and marriage in historical and comparative perspective; worldwide patterns of gender stratification; incest and incest avoidance; class and race contexts of family patterns; mate selection and love; parenthood and child rearing; domestic and sexual violence; alternative family lifestyles; and the current crisis and possible future of the family. Intended for a broad audience but also open to sociology and anthropology majors and minors. (Also offered as AN286; may not be taken for duplicate credit)

SO 301 Clinical Sociological Theory

3c-0l-3sh

Prerequisite: SO151

Develops an understanding of how to use micro and macro sociological theory to analyze, assess, and diagnose human problems. Employing case studies, prepares students to do casework and help solve interpersonal, group, and organizational problems. Also seeks to acquaint students with the broader professional activity of human services.

SO 302 Clinical Sociological Practice

3c-01-3sh

Prerequisite: SO301

Prepares the student to effect constructive change within individuals, groups, families, and communities. Draws its analysis, diagnosis, and methods from the foundations of sociological theory at the level of intervention with clients.

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SO 303 Social and Cultural Change

3c-01-3sh

Prerequisite: SO151

Exploration of current theoretical perspectives on social and cultural change. Special attention given to planned change at the local or regional level.

SO 314 Native Americans

3c-01-3sh

Survey of culture history and culture area characteristics of Indians of North America. Detailed study of representative groups related to historical, functional, and ecological concepts. (Previous title: Ethnology of North American Indians)

SO 320 Sociological Theory

3c-01-3sh

Prerequisites: SO151 and second-semester sophomore standing

Detailed survey of the historical development of sociological theory from the mid-nineteenth century to the present. Treats the classical theorists Marx, Durkheim, and Weber, and such contemporary theoretical schools as functionalism, Marxian and Weberian conflict theory, cultural materialism, social evolutionism, rational choice theory, symbolic interactionism, ethnomethodology, sociobiology, structuralism, and postmodernism. Students are encouraged to take this course in the second semester of their sophomore year or during their junior year.

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SO 333 Delinquency and Youth

3c-01-3sh

Prerequisite: SO151

Study of social and cultural factors involved in various youth lifestyles, including delinquency. Cross-cultural and historical approach used in a review of social norms, social control, and socialization institutions and community-based programs for rehabilitation.

SO 335 Alcohol and Drug Abuse

3c-01-3sh

Prerequisite: SO151

Examines the social issues and problems of alcohol and drug misuse in American society. Legal and illegal substances will be considered, and the causes of substance abuse as well as alternatives will be examined.

SO 336 Sociology of the Family

3c-01-3sh

Prerequisite: SO151

Sociological study of the family from various theoretical viewpoints. Special emphasis will be placed on the contemporary American family. A variety of topics will be covered such as mate selection, power relationships and roles in the family, parent-child interaction, marital satisfaction, divorce, and others.

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SO 337 World Societies and World Systems

3c-0l-3sh

Prerequisite: One of the following: AN110, EC101 or 121, GE230, HI202, PS101 or 282, SO151

Detailed analysis of the evolution of human societies, with special emphasis on the modern world system of societies that began to emerge in the sixteenth century and that has since expanded to include the entire globe. Topics include societies during the preindustrial era; the emergence of modern capitalism in the sixteenth century; relations between developed and less-developed societies in the modern world; the ascent and decline of nation-states in the modern world; the current plight of the Third World; the rise and demise of socialism in the twentieth century; and various scenarios for the human future.

SO 340 Sociology of Industry

3c-0l-3sh

Prerequisite: SO151

Examination of industrial organizations and their environments. Production systems analyzed in terms of different forms of organization, e.g., bureaucratic, power-equilibrium, and worker-participation. Special attention paid to who defines production, how such definitions are legitimized, and how constraints are placed on such definitions by union and other political organizations.

SO 341 Sociology of Education

3c-0l-3sh

Prerequisite: SO151

Examines the place of education in society. Special attention to the development of education in America and its relation to political and economic phenomena. Some attention given to education in other industrial and agrarian societies.

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SO 342 Social and Cultural Aspects of Health and Medicine

3c-0l-3sh

Prerequisite: 6sh in Sociology or Anthropology

Review of the fields of medical sociology and anthropology. Focuses on such topics as health and illness in cross-cultural context, aging, social and psychological aspects of pain, and social organization of health facilities and services. Definitions of limits of "life" and "death" in context of holistic health.

SO 345 Interpersonal Dynamics

3c-0l-3sh

Prerequisite: SO151

Study of the interaction between and among individuals and groups in various social settings. Emphasis on self-understanding, small groups, socialization, social influence and compliance, person perception, collective behavior, and mass communication.

SO 348 Sociology of Work

3c-0l-3sh

Prerequisite: SO151

Focuses upon the sociological examination of the various forms of labor, employment, and unemployment present in industrial societies. Examines the nature of work and unemployment in the modern era and how these forms are being transformed in the present period.

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SO 352 Sociology of Religion

3c-01-3sh

Prerequisite: SO151

Nature, role, and function of religious phenomena in human societies will be explored with special attention to certain critical issues as they relate to religion and politics and religion and economics. Some fundamental modes of religious life including ritual forms and mythic expressions will be examined. Other themes such as revitalization movements and processes of secularization in modern societies will be included.

SO 357 Sociology of Aging

3c-01-3sh

Prerequisite: SO151

Introduction to various problems faced in the process of growing older. Attitudes of society toward elderly and social and cultural impact of an aging U.S. population examined.

SO 361 Social Stratification

3c-01-3sh

Prerequisite: SO151

Examines leading perspectives in the major sociological subfield of social stratification. Attention drawn to different ways of ranking people in human societies, issues concerning the distribution of income and wealth, the role of political power in determining who gets what, and the causes and consequences of social inequality for specific groups. (Offered as SO435 prior to 1993-94)

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SO 362 Racial and Ethnic Minorities

3c-01-3sh

Prerequisite: SO151

Examines from an historical and comparative perspective the experiences of minority groups, with special emphasis on economic and political domination, stereotyping, prejudice, and discrimination. Techniques of majority group domination and the responses of minority groups are discussed. Various reasons for the different rates and patterns of assimilation are explored.

SO 363 Sociology of Sex and Gender

3c-01-3sh

Prerequisite: SO151

Explores current perspectives on the situations faced by women and men, primarily in the United States. Examines issues such as the impact of sex and gender on socialization, the construction of knowledge, intimate relationships, paid work, family relationships, health, and issues of change. (Offered as SO354 prior to 1993-94)

SO 380 Social Research Methods

3c-01-3sh

Prerequisites: 9sh in sociology and junior standing

Examines diverse research designs used in the social sciences, i.e., survey, field study, experiment, documentary, and existing statistical data. Focuses both on logic and practice of social research. Students choose a number of mini-projects or a major research project. (Offered as SO455 prior to 1993-94)

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SO 421 Sociology of Mass Media

3c-01-3sh

Prerequisite: SO151

Examines the development of mass media as dominant cultural forms within advanced industrial societies in the twentieth century. Emphasizes critical understanding of the sociohistorical development, the underlying assumptions, and the social implications of the advance of mass media.

SO 427 Spouse Abuse

3c-01-3sh

Prerequisite: SO151

Considers the range of theoretical explanations for the pervasive violence between husband and wife. Particularly examines the research on wife battering and the implications of this research for programs and policies assisting both the victim and the abuser.

SO 428 Child Abuse

3c-01-3sh

Prerequisite: SO151

Examines the prevalence, causes, and social implications of physical, sexual, emotional, and neglect forms of child abuse in society. Child abuse will be studied from the individual, family, and societal level perspectives. Potential intervention strategies will also be considered.

SO 447 Modern Sociological Theory

3c-01-3sh

Prerequisites: 9sh in sociology and junior standing

Detailed examination of major theoretical issues, perspectives, and controversies occupying center stage in contemporary sociological analysis. Major attention to nature and logic of social theorizing, primary macro-level theoretical perspectives which compete for attention in contemporary sociology, and the nature of new directions currently being taken within sociological theory.

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SO 448 Social Policy

3c-01-3sh

Prerequisite: SO151

Focuses on the formation of social welfare programs in the U.S., current social policy issues, and debates between conservative, liberal, and social democratic policy analysts. Special attention drawn to various social problems and a range of social policies designed to ameliorate the economic disadvantages of single individuals, single parents, and two-parent families. Also devoted to understanding the relationship between social policy, research, and implementation.

SO 456 Field Research Methods

3c-01-3sh

Prerequisite: SO455 or permission

Examination of methods and practice of sociology and anthropology in the areas of qualitative and field methods. Concentrates upon the development of field notes, interviewing techniques, participant observation, etc. Qualitative methods of sampling and analysis will include theoretical sampling and analytic induction. Brief background research into community, organizational, and group structure will also be emphasized.

SO 457 Computer Use in Sociology

3c-01-3sh

Prerequisite: Permission of the instructor

Introduces students to use of microcomputers in social science research and practice. Uses a variety of software for clinical sociological applications as well as quantitative analysis of social scientific data. These include client

information systems, field notes and downloading such notes, exchanging information between agencies, and statistical analyses for program evaluation and forecasting.

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SO 458 Political Sociology

3c-0l-3sh

Prerequisite: SO151

Examination of the social context of power and politics, with special reference to such topics as who controls the state and state policy; the role of the state in stabilizing capitalism and protecting the power of the upper class; political activities of the middle and upper classes; and labor, civil rights, and welfare rights social movements in America. Especially considers the problems of conducting and implementing social policy research for social change. Cross-listed in Political Science as PS346: Political Sociology.

SO 459 Development of Social Services

3c-0l-3sh

Prerequisite: Permission of the instructor

Examination of ideological and institutional conditions which shape health, unemployment, social security, and welfare services.

SO 480 Sociology Seminar

var-1-3sh

Prerequisite: SO151

Seminar for advanced students devoted to an intensive analysis of specialized issues within the discipline.

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SO 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

SO 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office

An opportunity for students to engage in an in-depth analysis of some topic through consultation with a faculty member. A semester project ordinarily expected. Approval is based on academic appropriateness and availability of resources.

SO 483 Readings in Sociology

var-1-3sh

Prerequisite: SO151

Directed readings on special topics in sociology.

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SO 493 Internship in Sociology

var-3-12sh

Prerequisite: Permission of the instructor

Supervised experience in public or private organizations that extends and complements coursework at the university.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Spanish

Department of Spanish and Classical Languages
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[SP101](#) [SP102](#) [SP121](#) [SP122](#) [SP131](#) [SP132](#) [SP201](#) [SP221](#) [SP222](#) [SP223](#) [SP230](#) [SP244](#) [SP260](#) [SP281](#) [SP290](#) [SP321](#)
[SP340](#) [SP342](#) [SP344](#) [SP353](#) [SP354](#) [SP362](#) [SP382](#) [SP382](#) [SP383](#) [SP384](#) [SP385](#) [SP389](#) [SP390](#) [SP400](#) [SP402](#) [SP403](#)
[SP404](#) [SP410](#) [SP411](#) [SP412](#) [SP420](#) [SP421](#) [SP430](#) [SP431](#) [SP481](#) [SP482](#) [SP493](#)

SP 101 Elementary Spanish I

4c-0l-4sh

For beginning students. Primary emphasis is on aural/oral skills. Students will learn to converse and ask questions in simple present time and become acquainted with location of Hispanic populations and elements of their daily lives. Attendance is required.

SP 102 Elementary Spanish II

4c-0l-4sh

A continuation of SP101. Students will learn to express past and future time. They will continue to learn about Hispanic countries and their cultures. Attendance is required.

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SP 121 Spanish for Health Care Professionals I

3c-0l-3sh

For beginning students in nursing and other health-related programs. Primary emphasis is on aural/oral skills. Students will learn to converse and ask questions related to health care settings in simple present time and near future. They will also become acquainted with Hispanic populations and elements of their daily lives. Class and language lab attendance are required. A student may receive credit for only one course from SP101, 111, 121, or 131.

SP 122 Spanish for Health Care Professionals II

3c-0l-3sh

Prerequisite: SP 121 or equivalent

A continuation of SP121 for students in nursing and other health-related programs. Primary emphasis is on aural/oral skills. Students will learn to express past and future time in health care settings. They will read articles about medical issues and short stories which concern health care themes in Hispanic cultures. Class and language lab attendance are required. A student may receive credit for only one course from SP102, 211, 122, or 132.

SP 131 Spanish for the Hospitality Industry I

3c-0l-3sh

Similar to SP101 but with a special emphasis on the vocabulary and structures used in the hospitality industry: hotel and restaurant management, tourism, and marketing. Class and language lab attendance is required. A student may receive credit for only one course from SP101, 111, 121, or 131.

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SP 132 Spanish for the Hospitality Industry II

3c-01-3sh

Prerequisite: SP 131 or equivalent

Similar to SP102 but with a special emphasis on the vocabulary and structures used in the hospitality industry: hotel and restaurant management, tourism, and marketing. Class and language lab attendance is required. A student may receive credit for only one course from SP102, 211, 122, or 132.

SP 201 Intermediate Spanish

4c-01-4sh

Prerequisite: SP102 or equivalent

A continuation of previous work on listening, speaking, reading, and writing skills. Students will learn to function in everyday situations, expressing opinions and doubts, and narrating and describing in present, past, and future time. Exposure to cultural concepts through literary readings. Liberal Studies credit is given.

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SP 221 Intermediate Spanish Conversation

3c-01-3sh

Prerequisite: SP201 or equivalent

Intensive work on oral communication skills with emphasis on vocabulary building, pronunciation, and discourse strategies. Required for all majors and minors.

SP 222 Intermediate Spanish Conversation-Business

3c-01-3sh

Prerequisite: SP201 or equivalent

Same as SP221 but with a special emphasis on the vocabulary and structures used in the business world. Substitutes for SP221.

SP 223 Intermediate Spanish Conversation-Criminology

3c-01-3sh

Prerequisite: SP201 or equivalent

Same as SP221 but with a special emphasis on the vocabulary and structures used in law enforcement and criminal justice. Substitutes for SP221.

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SP 230 Intermediate Spanish Composition

3c-01-3sh

Prerequisite: SP221 or concurrent registration

Intensive practice in written expression in Spanish. Both communicative and structural skills are stressed. Taught in Spanish. Required for all majors and minors. This course is approved to meet the Liberal Studies requirement for a writing-intensive course for majors.

SP 244 Modern Mexico

3c-01-3sh

Prerequisite: SP 201 or equivalent and participation in the Mexico Summer Study Abroad Program

This course, taught in Mexico as part of the study abroad program, introduces students to the contemporary culture of the largest Spanish-speaking country in the world. A historical perspective is provided within which to understand

current phenomena. Textbook readings are supplemented with readings from literary works and current periodicals. Students will gain firsthand experience both through field trips and by living with a Mexican family. Taught in Spanish.

SP 260 Introduction to Hispanic Literature

3c-0l-3sh

Prerequisite: SP230 or equivalent

This course is a prerequisite for any 300- or 400-level course in Hispanic literatures. Designed to provide students with the tools necessary for developing literary competence, the course combines a study of literary genres and analysis with an introduction to the literatures of Spain and Spanish America. Taught in Spanish. Required for all majors and minors.

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SP 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

SP 290 Spanish for Elementary Teaching

3c-0l-3sh

Prerequisite: SP201 or equivalent oral proficiency rating. For students enrolled in the FLISET Program

This course is designed for elementary education/early childhood majors who are completing the FLISET Program. The purpose of the course is to increase the students' proficiency in Spanish and to prepare them for an internship in an elementary school abroad. Emphasis is placed on vocabulary acquisition and on strengthening of listening and speaking abilities in Spanish. Through in-class interaction and practice in the language laboratory, students improve their linguistic skills, learn the language necessary for dealing with elementary-age children, and acquire basic vocabulary for teaching the content areas of the elementary school curriculum.

SP 321 Advanced Spanish Conversation

3c-0l-3sh

Prerequisite: SP230 or equivalent

Extensive practice in oral communication skills. Emphasis is placed on developing fluency in speaking over a wide range of topic areas. Required for all majors and minors.

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SP 340 Hispanic Civilization Through the 19th Century

3c-0l-3sh

Prerequisite: SP230 or equivalent

An introduction to the significant aspects of the culture of both Spain and Spanish America. Elements for explanation and discussion are drawn from artistic, literary, religious, geographic, social, and political manifestations of Hispanic culture as these have revealed themselves through the nineteenth century. Taught in Spanish. Required for all majors and minors.

SP 342 Twentieth-Century Spanish Civilization and Culture

3c-0l-3sh

Prerequisite: SP230 or equivalent

An analysis of the major cultural trends in twentieth-century Spain as they relate to its current problems, aspirations,

and values. Elements for explanation and discussion are drawn from artistic, literary, religious, geographic, social, and political manifestations. Taught in Spanish; offered alternate years. (May not duplicate credit for SP382 taken in Valladolid)

SP 344 Twentieth-Century Spanish-American Civilization and Culture

3c-01-3sh

Prerequisite: SP230 or equivalent

An analysis of the major cultural trends in twentieth-century Spanish America as they relate to its position in the world. Elements for explanation and discussion are drawn from artistic, literary, religious, geographic, social, and political manifestations, including indigenous cultural influences. Taught in Spanish; offered alternate years.

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SP 353 Spanish Phonetics and Phonemics

3c-01-3sh

An introduction to the phonological study of the sounds and training in pronunciation. The student will learn the theoretical basis for understanding the Spanish sound system and will perfect pronunciation through classroom practice and tapings. The course is taught in Spanish. Required for Spanish Education majors; highly suggested for Spanish majors.

SP 354 Commercial Spanish

3c-01-3sh

Prerequisite: SP230 or equivalent

Designed especially for majors in Spanish for International Trade, this course has three focuses: it teaches students how to do business communications in Spanish; it teaches the vocabulary necessary for dealing with all aspects of trade and commerce; and it introduces students to the special concerns and practices of business in the Spanish-speaking world. Taught in Spanish.

SP 362 Survey of Peninsular Literature

3c-01-3sh

Prerequisite: SP260 or permission

A course designed to introduce students to a careful and critical reading of literary texts from Spain read either in their entirety or in select passages. Taught in Spanish; offered alternate years.

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SP 382 -389 Pennsylvania-Valladolid Program

18sh

Prerequisite: SP230 and SP260 or permission

Contact chairperson, Department of Spanish and Classical Languages. Courses taken in Valladolid include the following and SP482: Independent Study (3sh). Descriptions below.

SP 382 Contemporary Spain

3sh

Prerequisite: SP230 and SP260 or permission

Gives the student a general view of Spain today in the areas of society, economy, and political institutions. (See SP342)

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SP 383 Geography and History of Spain

3sh

Prerequisite: SP230 and SP260 or permission

Students will be introduced to a panorama of Spanish physical, social, and economic geography including the recent autonomic division of the country and the communication among the autonomies. Students will also review the history of Spain from the fifteenth century to the present with special emphasis on today's Spanish institutions.

SP 384 History of Spanish Art

3sh

Prerequisite: SP230 and SP260 or permission

Students will be exposed to the richness of art in the Iberian Peninsula and in particular in the area of Madrid and Castilla-Leon. They will study the evolution of Spanish art in history, giving more emphasis to contemporary tendencies.

SP 385 Survey of Spanish Literature

3sh

Prerequisite: SP230 and SP260 or permission

Students will be introduced to a general study of Spanish literature from its origin to the present time. Students will learn to appreciate and analyze the different literary genres. Emphasis will be placed on twentieth-century literature.

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SP 389 Theory and Practice of Spanish Language

3sh

Prerequisite: SP230 and SP260 or permission

Students will be introduced to Spanish syntax, morphology, and the Spanish language lexicon. They will be introduced to familiar and formal conversation and to idiomatic expressions used in everyday situations.

SP 390 Teaching of Elementary Content Through the Spanish Language

3c-0l-3sh

Prerequisites: Passage of a language proficiency examination and permission of the instructor

The student will study current theories of language acquisition processes in children and will develop foreign language instructional objectives and activities which integrate language and cultural learning with the content areas of the elementary school curriculum. Through hands-on practice, the student will develop techniques for teaching functional language, planning lessons, testing language skills, setting curricular objectives, and selecting/designing materials appropriate to the needs and interests of elementary school foreign language learners.

SP 400 History of the Spanish Language

3c-0l-3sh

Prerequisite: SP230 or equivalent

Traces phonological, morphological, lexical, and syntactical evolution of Castilian dialect from its origins in vulgar Latin through its development, perfection, and ultimate recognition as the official language of Spain and Spanish America. Places Castilian linguistically with relation to other Romance languages and considers features peculiar to Spanish of Latin America. Taught in Spanish.

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SP 402 Translation and Interpretation

3c-0l-3sh

Prerequisite: SP230 and SP321

Fundamental translation skills for use in business and industry as well as in academic and popular fields.

SP 403 Applied Linguistics

3c-0l-3sh

Prerequisite: SP230

An introduction to Spanish linguistics for students who have had no previous experience in linguistics. Students will study the application of areas such as phonology, morphology, syntax, and semantics and will explore issues in psycholinguistics and sociolinguistics. Taught in Spanish.

SP 404 Advanced Spanish Grammar

3c-0l-3sh

Prerequisites: SP221 or equivalent and SP230 and senior standing or departmental permission

An in-depth study of Spanish syntax and morphology. Taught in Spanish. Required for all majors.

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SP 410 Medieval Literature

3c-0l-3sh

Prerequisite: SP260 or permission

Reading and discussion of various medieval genres: brief prose narrative, epic, lyric, and didactic poetry, prose, and medieval drama. Taught in Spanish; offered in four-year rotation.

SP 411 Golden Age Literature

3c-0l-3sh

Prerequisite: SP260 or permission

Analysis of themes, motifs, and stylistic devices of Spanish poetry, novel, and theater of the Renaissance and Baroque. Taught in Spanish; offered in four-year rotation.

SP 412 The Spanish Novel of the 19th and 20th Centuries

3c-0l-3sh

Prerequisite: SP260 or permission

Analysis of selected novels from three major periods: the nineteenth century, the Generation of 1898, and the post Civil War. Taught in Spanish; offered in four-year rotation.

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SP 420 Modern Hispanic Theater

3c-0l-3sh

Prerequisite: SP260 or permission

Study and analysis of modern dramatic works from Spain and Spanish America. Particular emphasis will be given to the representational aspect of the works. Taught in Spanish; offered in four-year rotation.

SP 421 Modern Hispanic Short Story

3c-0l-3sh

Prerequisite: SP260 or permission

The critical analysis of short stories by Spanish and Spanish-American authors. Taught in Spanish; offered in four-year rotation.

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SP 430 Twentieth-Century Spanish-American Prose

3c-0l-3sh

Prerequisite: SP260 or permission

Traces literary expressions from the turn of the century to the present in the major prose expressions of the essay, the short story, and the novel. Taught in Spanish; offered in four-year rotation.

SP 431 Spanish-American Poetry

3c-0l-3sh

Prerequisite: SP260 or permission

A study of Spanish American poetry from its early manifestations through modernism, post-modernism, and avant-garde. Taught in Spanish; offered in four-year rotation.

SP 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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SP 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office

An opportunity to engage in an in-depth analysis of some topic dealing with the Spanish language and culture through consultation with a faculty member. Approval is based on academic appropriateness and availability of resources.

SP 493 Internship

var-3-12sh

Prerequisite: One semester of study in a Spanish-speaking country

A supervised field experience in any Spanish-speaking area of the world with approved public agencies and institutions or private firms, no longer than one semester and no less than one month. Positions will be matched as closely as possible with the intern's personal interests and professional goals. For more information contact the Spanish and Classical Languages Department. Maximum of six credits can apply toward a major.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Speech Pathology and Audiology (formerly Speech and Hearing)

Department of Special Education and Clinical Services
College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[SH111](#) [SH122](#) [SH222](#) [SH242](#) [SH251](#) [SH254](#) [SH281](#) [SH311](#) [SH334](#) [SH342](#) [SH406](#) [SH408](#) [SH412](#) [SH420](#) [SH481](#)
[SH482](#)

SH 111 Introduction to Communication Disorders

3c-0l-3sh

Introduction to study of physiological, acoustical, and scientific processes involved in production and reception of speech. The genetic development of speech sounds and factors that hinder or facilitate speech and language acquisition. (Previous title: Fundamentals of Speech and Hearing)

SH 122 Clinical Phonology

3c-0l-3sh

Detailed study of the classification of American-English phonemes using the physical and acoustical perspectives. Development of proficiency in use of International Phonetic Alphabet for allophonic transcriptions of normal and disordered speech. (Previous title: Phonetics)

SH 222 Introduction to Audiology

3c-0l-3sh

The study of auditory function, anatomy of auditory mechanism, psychophysics of sound, types and causes of hearing loss, measurement of hearing, and educational considerations for hearing-handicapped child.

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SH 242 Speech Science I

3c-0l-3sh

Study of the communication process with emphasis on physical characteristics of sound production, transmission and perception of the sound, and the evolution and use of symbols for meaningful communication. The scientific principles of normal oral communication are stressed, and language learning is recognized as a basis for oral communication. (Previous title: Introduction to Speech Science)

SH 251 Anatomy and Physiology of the Speech and Hearing Mechanism

3c-0l-3sh

Consideration of genetic development, structure, and function of the organs of speech and hearing. Anatomical systems involved in respiration, phonation, articulation, and hearing and relationships between systems in production and reception of speech.

SH 254 Classroom Management of Language Disorders

3c-01-3sh

Study of aspects of speech, language, and hearing problems pertaining to classroom situation. Types of speech and hearing disorders, conducting speech and language improvement lessons, classroom aids for teaching the child with language, speech, and hearing impairment, and school and community resources for these children. (Required for majors in Education of the Exceptional and suggested for majors in Elementary Education)

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SH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

SH 311 Aural Rehabilitation

3c-01-3sh

Prerequisite: SH222, 2.5 QPA

Consideration of the effects of varied degrees of hearing loss sustained by individuals at different stages of development and study of total education and rehabilitative procedures for the hard-of-hearing child or adult.

SH 334 Language Development

3c-01-3sh

Prerequisite: 2.5 QPA

Study of the development of an interpersonal communication system; language as a system of symbols for communication; the structure of the English language, including phonology, syntax, and semantics with emphasis on the generative evolution of sentences. Highlighting the neurological, social, and psychological bases of language development. (Offered as SH234 prior to 1993-94)

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SH 342 Speech Science II

3c-01-3sh

Prerequisite: SH242, 2.5 QPA

Physiologic, acoustic, and perceptual characteristics of speech with special emphasis on speech monitoring and controls. Major lab instrumentation and research techniques in current use are described and demonstrated. Status of present knowledge is summarized and discussed.

SH 406 Articulation and Language Disorders

3c-01-3sh

Prerequisites: SH111, 242, 251, 334, 2.5 QPA

Exploration of the processes related to developmental articulation and language disorders from birth through adolescence. Instruction in the principles underlying modification of these disorders. Preparation of management programs and observation in the Speech and Hearing Clinic required. (Offered as SH306 prior to 1993-94)

SH 408 Stuttering and Voice Disorders

3c-01-3sh

Prerequisites: SH111, 242, 251, 334, 2.5 QPA

Introduction to the developmental, psychogenic, and organic bases for stuttering and voice disorders. Instruction in

principles underlying treatment of these disorders with emphasis on anatomical deviations and laryngeal dysfunction. Preparation of management plans and observation in Speech and Hearing Clinic required. (Offered as SH308 prior to 1993-94)

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SH 412 Organization and Administration of Speech and Hearing Progra

3c-01-3sh

Prerequisite: SH111, 2.5 QPA (meets requirement for Professional Education course)

Establishment and maintenance of speech and hearing programs within various administrative organizations, particularly in the public schools. Techniques of client identification, scheduling, recordkeeping, appropriate referral, material and equipment selection, teacher and parental counseling, and the development of coordinated professional and interdisciplinary procedures. (Offered as SH312 prior to 1993-94)

SH 420 Speech Clinic

var-1-3sh

Prerequisites: ED242, ED342, QPA of 3.0+, all major courses, program director's permission

Experience in working with individuals or groups of persons who exhibit speech or hearing problems. Lesson planning, writing of reports, and case histories of a detailed nature. (Offered as SH320 prior to 1993-94)

SH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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SH 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Theater

Department of Theater
College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[TH101](#) [TH102](#) [TH110](#) [TH116](#) [TH120](#) [TH122](#) [TH130](#) [TH131](#) [TH150](#) [TH201](#) [TH202](#) [TH220](#) [TH221](#) [TH223](#) [TH240](#)
[TH250](#) [TH260](#) [TH270](#) [TH280](#) [TH281](#) [TH290](#) [TH301](#) [TH302](#) [TH310](#) [TH320](#) [TH321](#) [TH322](#) [TH323](#) [TH340](#) [TH341](#)
[TH342](#) [TH345](#) [TH347](#) [TH350](#) [TH351](#) [TH353](#) [TH481](#) [TH482](#) [TH483](#) [TH484](#) [TH485](#) [TH486](#) [TH489](#) [TH493](#)

TH 101 Introduction to Theater

3c-0l-3sh

An exploration of the theater arts, examining major periods of theater history, selected works of dramatic literature, and the primary theater arts of acting, directing, design, and technical theater. Class experience includes the analysis of at least two major works of drama, attending two live productions, and viewing of selected televised plays and musicals.

TH 102 Introduction to Dance

3c-0l-3sh

Examines dance as a performing art in both the historical and cultural contexts. Also includes the analysis of a major piece of choreography, attending live performances, and viewing select works of dance. No previous dance experience is required.

TH 110 Script Analysis

3c-0l-3sh

Course examines major as well as alternative systems by which dramatic texts may be analyzed, including classical plot construction, scene structure, tension and release, dramatic rhythms, and several contemporary and less conventional methods of dramatic orchestration.

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TH 116 Fundamentals of Theatrical Design

3c-0l-3sh

Introduces the fundamentals of scene, costume, lighting, and sound design for theater and dance. It is focused on creative processes used by designers to make choices. Topics include script analysis, director and designer communication, and the integration of the design elements into a unified production.

TH 120 Stagecraft I

3c-0l-3sh

Exploration of the material, methods, and procedures utilized in creating a scenic environment. Through instruction and practical application, students learn the basis of scenic construction and develop competency with the basic materials and equipment used in a theatrical scene shop.

TH 122 Costume Workshop

3c-01-3sh

Instruction and practical experience in the process of building costumes for the stage. Activities include fitting, cutting, sewing, dyeing, and painting. There is also instruction in the maintenance of wardrobe, costume stock, materials, and properties.

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TH 130 Stage Voice

3c-01-3sh

Prerequisite: Theater majors only, or by permission of instructor

Instruction in basic development of the vocal instrument of the actor in stage performance. Emphasis is placed upon the resonance, quality, pitch, and projection of the voice while improving the student's ability to articulate.

TH 131 Stage Movement

3c-01-3sh

Instruction in basic stage movement and the physicalization of character. Includes work in character development through variety in movement, introductory work in juggling, stage combat, and mime, and the assessment, awareness, and correction of individual movement problems.

TH 150 Fundamentals of Dance

3c-01-3sh

A basic dance technique that sequentially develops the elements of movement (space, time, force) into a variety of dance genre and period styles. Covers special care and safety of the instrument—the body.

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TH 201 Theater History I

3c-01-3sh

A comprehensive survey of the history, trends, and developments of theater and drama from their beginnings through the English Renaissance.

TH 202 Theater History II

3c-01-3sh

Comprehensive survey of the history, trends, and developments of theater and drama from the English Restoration to the present.

TH 220 Stagecraft II

3c-01-3sh

Prerequisite: TH120 or permission

Advanced exploration of materials, methods, and procedures involved in creating a scenic environment. Students also receive intensive practical experience in shop planning and supervision to include problem-solving techniques.

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TH 221 Basic Stage Lighting

3c-01-3sh

Prerequisite: TH120

Introduction to lighting instruments, color media, control boards, physical laws of electricity and optics, graphics, and conventional techniques used in lighting theatrical productions.

TH 223 Makeup for the Stage

3c-01-3sh

Deals with practical application of straight and character makeup and may include instruction in creating beards, wigs, prosthetics, and masks.

TH 240 Acting I

3c-01-3sh

Study of the primary elements of the Stanislavski system of character development. Includes text analysis and the development of physical action through a character's subtext, as well as motivational and improvisational techniques.

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TH 250 Contemporary Dance

3c-01-3sh

Study of the primary elements of the Stanislavski system of character development. Includes text analysis and the development of physical action through a character's subtext, as well as motivational and improvisational techniques.

TH 260 Jazz Dance

3c-01-3sh

Jazz techniques, dynamics, and style for theater dance from the 1920s through the present. Emphasis on analysis of music for choreography.

TH 270 Ballroom and Tap Dance

3c-01-3sh

A sequential development of tap and ballroom dance techniques in the context of historical development and period styles. Performance for an audience is required.

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TH 280 Ballet

3c-01-3sh

Sequential development of barre and center techniques that progress to linking moves, turning, and jumps, to dance sequences and choreography. The historical periods of development and the status of the art today will be examined in a cultural context which includes gender and minority influences.

TH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

TH 290 Ethnic Dance

3c-01-3sh

Includes dance techniques from a variety of indigenous forms from Western and Eastern cultures. Presented in the historical and social context. Emphasis will be given to the needs of theater production.

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TH 301 Tragic Mask

3c-01-3sh

Historical survey of theatrical conventions, traditions, and production practices specifically associated with tragedy and its ensuing forms: drama and melodrama. It focuses on landmark dramatic texts, examining the changing faces of tragic masks and their implications for theatrical practice from ancient Greece to the twentieth century.

TH 302 Comic Mask

3c-01-3sh

Historical survey of theatrical conventions, traditions, and production practices specifically associated with comedy and its related forms: farce, burlesque, etc. Focuses on landmark dramatic texts, examining the changing faces of comic masks and their conventions, and their implications for theatrical practice from ancient Greece to the twentieth century.

TH 310 Theater Criticism

3c-01-3sh

A study of the theory of criticism and of the discrete functions of critic and reviewer. Students see live performances and practice writing both reviews and criticism.

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TH 320 Scene Design

3c-01-3sh

Prerequisite: TH120

An introduction to the principles of scenic composition, analysis, concept development, and graphic communication methods used by the scenographer.

TH 321 Stage Lighting Design

3c-01-3sh

Prerequisite: TH221

Covers the design and execution of stage lighting with emphasis on script analysis, the collaborative role of the lighting designer, lighting theory, and modern stage lighting practices. Practical applications include the conceptualization and designing of production lighting for Proscenium, Thrust, and Arena stages through class exercises.

TH 322 Costume Design

3c-01-3sh

Covers design and execution of stage costumes with emphasis on showing how mood and illusion can be created through the proper selection of style, color, and texture, supplemented by an overview of stage costuming.

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TH 323 Sound Design

3c-01-3sh

Covers the basic principles and theories of designing sound for the theater. Through demonstration and practical application, the course will cover the following principal areas: basic electronics, recording techniques and equipment, musical and effects integration, theater acoustics, designing sound, and sound reinforcement.

TH 340 Acting II

3c-01-3sh

Prerequisites: TH240 or permission of instructor

Study of the evolving Stanislavsky system and its American reinterpretations as applied to realism and other dramatic

genres and styles. Emphasis will be on scoring of text, exploring the relationships between psychological states and physical action.

TH 341 Acting Styles

3c-0l-3sh

Prerequisite: TH130, TH131, TH240 or permission of instructor

Study and practice of advanced acting skills with special emphasis on style and period. Possible areas of focus: Greek classical, Commedia Dell'Arte (farce), French Neo-classical, Restoration Comedy, Melodrama, High Comedy (Wilde/Coward), or Theater of the Absurd.

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TH 342 Acting Shakespeare

3c-0l-3sh

Prerequisites: TH240, TH340 (or permission of instructor)

An advanced acting studio which will prepare students to perform in Shakespeare's plays. This course will provide a background overview of the Elizabethan period in addition to various methods towards approaching the movement, language, and verse forms from an actor's point of view.

TH 345 Touring Young People's Theater

3c-0l-3sh

This course introduces the fundamentals of young people's theater for audiences aged five through fifteen years. The class will select appropriate children's literature, develop a script through improvisation, and rehearse and tour their production to the surrounding schools.

TH 347 Playwriting

3c-0l-3sh

Prerequisite: TH110, or permission of professor

This course is a practical exploration of the craft and process of playwriting. The primary focus of the course is the practical, "hands-on" experiences approximating the "developmental process" currently in use in the American theater. The student will be guided from the initial concept through synopsis, outlines, working drafts, and culminating in the student's completion of an original one-act play and a "staged reading" of this project.

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TH 350 Directing

3c-0l-3sh

Prerequisites: TH110, TH240, permission

Introduction to basic directing skills: casting, floor plans, blocking, rehearsal procedures, and the applications of scene and character analysis. Students will prepare short scenes for class presentation.

TH 351 Choreography

3c-0l-3sh

Prerequisite: must have taken one of the introductory or advanced-level dance classes (TH150, 250, 260, 270, 280, 485) or permission of instructor

This course introduces the necessary choreographic tools needed to manipulate dance as a medium to create dance works. The class will learn and use various approaches to the choreographic process to create dance works, one of which will be presented in a public showing at the end of the semester.

TH 353 Dance Curriculum and Instruction

3c-01-3sh

Prerequisites: One of the following theater courses: TH 250, 260, 270, 280, 290, or 485; or permission of the instructor

This course introduces the necessary teaching skills and curriculum development needed to understand the pedagogical structure for teaching dance. The class will learn the approaches to teaching that are unique to dance and will learn how to design dance curriculum.

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TH 481 Special Topics

var-1-6sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

TH 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office

Independent study in theater may be either purely academic or may be a practical production project, supported by a written document giving evidence of significant scholarly investigation or original, creative effort. May be repeated to a maximum of 6 credits. Approval is based on academic appropriateness and availability of resources.

TH 483 Acting Studio

3c-21-3sh

Prerequisites: Minimum of TH240, by permission; individual foci have additional prerequisites

Advanced studio course offering scene practice with faculty direction, coaching, and criticism. Specific focus of scene work varies from semester to semester, including improvisation techniques, stage dialects, audition techniques, and acting for the camera as alternating semester options. May be repeated with a different focus each time.

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TH 484 Directing Studio

3c-21-3sh

Prerequisites: TH350, permission

Opportunity for students to direct scene work, one-act plays, or larger projects, according to individual levels of experience, preparation, and readiness. Practical application of principles of directing to specific problems in directing. Student projects performed in public, open-class recitals. May be repeated.

TH 485 Dance Studio

3c-01-3sh

Prerequisites: TH250, TH260, TH270, or TH280 (beginning technique class taken must be the specific dance genre of the Dance Studio class offered); or by permission of instructor

Further the development of the dancer at the intermediate level of a specified genre of dance. Development in dance requires the integration of both technique and artistic development. The specific genres vary from semester to semester, including modern, ballet, tap, and jazz as alternating semester options. May be repeated with a different focus each time.

TH 486 Practicum in Production

var-.5-4sh

Prerequisite: Permission

An opportunity with academic credit for students to make significant contributions to campus productions augmenting theater coursework in the areas of assistant directing or directing, stage management, technical direction, sound design, lighting, scene design, properties and set decoration, scene building and painting, costuming, dance, and make-up design. May be repeated.

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TH 489 Technical Theater Problems

3c-0l-3sh

Prerequisite: Permission of instructor

Open to all students desiring instruction in a variety of technical theater areas not presently covered in other courses. Topics to include sound design, stage management, set props, media make-up, technical drawing/mixed media, and scene painting. May be repeated.

TH 493 Internship

var-3-12sh

Prerequisite: Permission of instructor

Opportunities for students to gain experience with professional performance organizations in areas related to theater and dance.

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Universitywide Courses

Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[UN480](#) [UN493](#)

UN 480 T.H.I.S. Seminar

3c-0l-3sh

Academic seminar taken at the State System of Higher Education University Center in Harrisburg in conjunction with the T.H.I.S. internship. Consists of public policy information, decision making, and budgeting and addresses question-and-answer sessions with leading state government policymakers. See descriptions under Academic Affairs areas. Restricted to the T.H.I.S. internship participant. See UN493.

UN 493 T.H.I.S. Internship

var-12sh

Practical experience at the policymaking level of the state government that also requires a research project. Student must have a 3.0 GPA and submit a sample of writing skills with the application to the Experiential Education Office. Open to any IUP major. See description under Academic Affairs areas. Concurrent seminar course required. See UN480.

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Vocational Education

Center for Vocational-Technical Personnel Preparation College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[VO010](#) [VO100](#) [VO281](#) [VO395](#) [VO400](#) [VO401](#) [VO402](#) [VO450](#) [VO481](#) [VO482](#)

VO 010 Industrial Electrical Technology

var-1-18sh

Prerequisite: Center/department permission

Emphasis on comprehensive industrial electrical technology through training in specialty concentrations applied to design, development, and testing of electrical circuits, devices, and systems for generating electricity and the distribution and utilization of electrical power. Carries institutional credit only.

VO 100 Preparation of the Vocational Professional I

var-1-15sh

Personalized, self-paced vocational teacher preparation. The vocational student/intern develops, demonstrates, and documents competence in selected pedagogical competencies. Individualized instruction is supplemented with monthly seminars. Self-evaluation is encouraged in the program, utilizing videotaping and the feedback from a team of professional teacher educators.

VO 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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VO 395 Vocational Education Writing Experience

var-0sh

Writing assignments such as abstracts, logs of activities, philosophy papers, training plans, presentation plans, lesson plans, etc., will be completed in conjunction with selected instructional modules from VO100 and VO400 courses.

VO 400 Preparation of the Vocational Professional II

var-1-15sh

Prerequisite: Successful completion of VO 100

Personalized, self-paced vocational teacher preparation. The vocational student/intern develops, demonstrates, and documents competence in selected teaching skills in the areas of program planning, program development, program evaluation, and managing and evaluating instruction in a vocational school setting. Self-evaluation is encouraged in the program utilizing videotaping and the feedback from a team of professional teacher educators.

VO 401 Special Topics in Vocational Technical Preparation

var-1-12sh

Prerequisite: Center permission

Provides opportunities for vocational students/interns to develop additional technical skills in areas related to their occupational competence under professional supervision. Topics are determined through individual counseling, through priority needs identified by advisory committees, and through evaluation of technical competence by center teaching staff.

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VO 402 Special Topics in Vocational Pedagogical Preparation

var-1-15sh

Prerequisite: Center permission

Provides opportunities for vocational students/interns to develop additional teaching skills under professional supervision. Topics are determined through identification of priority areas in vocational education using national and state surveys and students' individual needs.

VO 450 Technical Preparation of the Vocational Professional

24sh

Competency assessment of occupational experience through national standardized written and performance examinations.

VO 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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VO 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Women's Studies

Women's Studies Program Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[WS200](#) [WS281](#) [WS481](#) [WS482](#)

WS 200 Introduction to Women's Studies

3c-0l-3sh

Focuses on women as they are and as they have been—as represented by the work of writers and as presented in the theory and research of various disciplines. Historical and contemporary images of women are examined in terms of their impact on our lives. The relationships of women to social institutions such as education, religion, and health care are explored. Alternative theories explaining the roles and status of women are compared. Attempts to help us understand the choices and experiences women face in their everyday personal, work, and public lives.

WS 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

WS 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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WS 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Associate Professor, Theater

John F. Sitton, Ph.D., Boston University
Professor, Political Science

Thomas J. Slater, Ph.D., Oklahoma State University
Assistant Professor, English

Jean J. Slenker, M.A., Professional Diploma in Fine Arts, Teachers College, Columbia University
Associate Professor, Art

Robert Eugene Slenker, M.A., Professional Diploma, Teachers College, Columbia University
Associate Professor, Art

Edward L. Sloniger, Ph.D., University of Illinois
Professor, Health and Physical Education

Alice E. Smith, Ph.D., University of Iowa
Assistant Professor, Special Education

Kelly L. Smith, M.Ed., Arkansas State University
Assistant Professor, Office Systems and Business Education

R. Roger Smith, Ph.D., University of Kentucky
Associate Professor, Spanish and Classical Languages

Theresa S. Smith, Ph.D., Boston University
Associate Professor, Philosophy and Religious Studies

W. Wayne Smith, Ph.D., University of Maryland
Professor, History

Ronald F. Smits, Ph.D., Ball State University
Professor, English

C. Sue Snyder, Ph.D., University of Pittsburgh
Associate Professor, Nursing

Kay A. Snyder, Ph.D., Cornell University
Professor, Sociology

Stanley J. Sobolewski, Ph.D., State University of New York at Buffalo
Assistant Professor, Physics

James A. Solak, M.Ed., Indiana University of Pennsylvania
Associate Professor, Management Information Systems and Decision Sciences

Harold M. Sommer, Ed.D., University of Georgia
Professor, German

Ramesh G. Soni, Ph.D., University of Texas at Arlington
Associate Professor, Management

Robert D. Soule, Ed.D., University of Pittsburgh
Professor, Chairperson, Safety Sciences

Jonathan N. Southard, Ph.D., Utah State University
Assistant Professor, Chemistry

Sharon Sowa, Ph.D., Colorado State University
Assistant Professor, Chemistry

Joseph B. Spieker, Ph.D., Catholic University of America
Professor, Spanish and Classical Languages

William M. Srsic, M.Ed., Edinboro University of Pennsylvania
Associate Professor, Associate Director, Financial Aid

John E. Stamp, Jr., D.M.A., Michigan State University
Professor, Music

Laurie N. Stamp, D.Ed., Indiana University of Pennsylvania
Assistant Professor, Professional Studies in Education

James G. Staples, D.M.A., Eastman School of Music-University of Rochester
Professor, Music

Jay Start, Ph.D., University of Pittsburgh
Associate Professor, Communications Media

John H. Steelman, Ph.D., University of Virginia
Professor, Mathematics

David W. Stein, Ph.D., University of Pittsburgh
Associate Professor, Special Education and Clinical Services

Joanne B. Steiner, Ph.D., University of Rhode Island
Professor, Chairperson, Food and Nutrition

Ronald A. Steiner, M.S.L.S., Case Western Reserve University
Associate Professor, Chairperson, Libraries and Media Resources

Margaret M. Stempien, Ph.D., State University of New York at Buffalo
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Catherine R. Stephenson, Ed.D., University of Pittsburgh
Assistant Professor, University School

Frances C. Stineman, Ph.D., University of Pittsburgh
Assistant Professor, Eberly College of Business

Lloyd K. Stires, Ph.D., Duke University
Professor, Psychology

Robert J. Stonebraker, Ph.D., Princeton University
Professor, Economics

Gary S. Stoudt, Ph.D., Lehigh University
Associate Professor, Mathematics

Rebecca A. Stoudt, Ph.D., Lehigh University
Associate Professor, Mathematics

Paul S. Strand, Ph.D., University of Tennessee
Assistant Professor, Psychology

Donna L. Streifthau, Ph.D., The Ohio State University
Professor, Chairperson, Human Development and Environmental Studies

Robert S. Stroock, M.Ed., Shippensburg University of Pennsylvania
Associate Professor, Finance and Legal Studies

Peter M. Sullivan, Ph.D., Johns Hopkins University
Associate Professor, German

Mario Sussmann, Ph.D., University of Illinois
Professor, Psychology

Connie J. Sutton, M.Ed., Indiana University of Pennsylvania
Assistant Professor, Geoscience

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Devki N. Talwar, Ph.D., Allahabad University
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John F. Taylor, Ph.D., University of Missouri
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Professor, Music

Eugene F. Thibadeau, Ph.D., New York University
Professor, Foundations of Education

John C. Thomas, Jr., J.D., West Virginia University
Professor, Criminology

Raymond L. Thomas, Ph.D., The Pennsylvania State University
Professor, English

Ronald W. Thomas, Ph.D., University of Pittsburgh
Professor, Chairperson, Student Affairs in Higher Education

Carolyn A. Thompson, M.S., Indiana University of Pennsylvania
Associate Professor, Women's Studies

Richard E. Thorell, M.A., University of Rochester
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Gordon F. Thornton, Ph.D., The Ohio State University
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Mark G. Twiest, Ph.D., University of Georgia
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Thomas L. VanDyke, Ph.D., Virginia Polytechnic Institute and State University
Associate Professor, Hotel, Restaurant, and Institutional Management

Pothen Varughese, Ph.D., Kent State University
Professor, Chairperson, Chemistry

Michael W. Vella, Ph.D., University of California-Davis
Professor, English

Frank A. Viggiano, Jr., Ph.D., University of Pittsburgh
Professor, Human Development and Environmental Studies

Judith H. Villa, Ph.D., University of New Mexico
Assistant Professor, English

Patricia E. Villalobos, M.F.A., West Virginia University
Assistant Professor, Art

Jacob U. Voelker, M.A., University of Notre Dame
Associate Professor, Chairperson, German

Dorothy C. Vogel, Ph.D., New York University
Professor, History

Edwina B. Vold, Ph.D., University of Wisconsin
Professor, Chairperson, Professional Studies in Education

Larry A. Vold, Ph.D., University of Wisconsin
Associate Professor, Professional Studies in Education

Michele D. Wagner, Ph.D., University of Wisconsin
Assistant Professor, History

Donald A. Walker, Ph.D., Harvard University
University Professor and Professor, Chairperson, Economics

Bernadette L. Walz, M.S.N., University of Pittsburgh
Associate Professor, Nursing

George B. Walz, Ph.D., Lehigh University
Professor, Psychology

Xi Wang, Ph.D., Columbia University
Assistant Professor, History

Stephen B. Ware, B.A., Ohio Wesleyan University
Associate Professor, Economics

Dey W. Watts, Ph.D., Virginia Polytechnic Institute and State University
Assistant Professor, Geography and Regional Planning

Marcia R. Watts, M.S., Villanova University
Assistant Professor, Computer Science

Ronald M. Weiers, Ph.D., University of Pittsburgh
Professor, Marketing

Christopher L. Weiland, M.F.A., Rochester Institute of Technology
Professor, Art

Kim Weiner, Ph.D., University of Pittsburgh
Assistant Professor, Counseling and Student Development Center

James E. Welker, M.B.A., University of Pittsburgh
Assistant Professor, Finance and Legal Studies

Susan Welsh, Ph.D., Drew University
Assistant Professor, English

Annie-Laurie Wheat, M.F.A., University of Georgia
Assistant Professor, Chairperson, Theater

Susan E. Wheatley, Ph.D., University of Michigan
Associate Professor, Music

Roxann Wheeler, Ph.D., Syracuse University
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Assistant Professor, History

Robert L. Whitmer, Ph.D., University of Pittsburgh
Professor, Chairperson, French

Dennis W. Whitson, Ph.D., University of Pittsburgh
Professor, Physics

Vythilingam Wijekumar, Ph.D., The Ohio State University
Professor, Physics

George T. Wiley, Ph.D., Western Reserve University
Professor, History

Carolyn J. Wilkie, Ph.D., The Pennsylvania State University
Professor, Educational Development Specialist, Learning Center

Michael M. Williamson, Ph.D., State University of New York at Buffalo
Professor, English

Michael T. Williamson, Ph.D., Rutgers, The State University of New Jersey
Assistant Professor, English

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Associate Professor, Communications Media

Marilyn E. Willis, Ed.D., Virginia Polytechnic Institute and State University
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B. Gail Wilson, Ph.D., University of Pittsburgh
Associate Professor, Communications Media

Lorraine P. Wilson, D.A., Ball State University
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Nancy K. Wilson, Ph.D., University of Tennessee
Associate Professor, Criminology

T. Kenneth Wilson, Ph.D., State University of New York at Buffalo
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Professor, Counseling

Ronald J. Woan, Ph.D., Florida State University
Associate Professor, Accounting

James L. Wolfe, M.S., The Pennsylvania State University
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John T. Wood, Ph.D., University of Pittsburgh
Professor, Chemistry

Dawn E. Woodland, Ph.D., Southern Illinois University
Assistant Professor, Office Systems and Business Education

John C. Woolcock, Ph.D., University of California-Riverside
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John C. Worzbyt, Ed.D., University of Rochester
Professor, Counseling

Dieter Wulfhorst, D.M.A., University of Maryland at College Park
Assistant Professor, Music

Wenfán Yan, Ph.D., State University of New York at Buffalo
Professor, Professional Studies in Education

Stanley J. Yerep, M.Ed., Indiana University of Pennsylvania, C.P.A.
Assistant Professor, Accounting

Kwasi Yirenkyi, Ph.D., University of Pittsburgh
Associate Professor, Philosophy and Religious Studies

Nancy J. Yost, M.S., Emporia State University
Assistant Professor, University School

Caroll M. Young, Ph.D., University of Missouri
Associate Professor, Spanish and Classical Languages

Mary L. Zanich, Ph.D., University of Pittsburgh
Professor, Psychology

Jun-Lue (John) Zhang, Ph.D., Syracuse University
Assistant Professor, Mathematics

Sherwood E. Zimmerman, Ph.D., State University of New York at Albany
Professor, Criminology

Susan T. Zimny, Ph.D., University of Colorado
Associate Professor, Psychology

Phillip J. Zorich, M.A., University of Oregon
Assistant Professor, Libraries and Media Resources

Nashat Zuraikat, Ph.D., University of Pittsburgh
Associate Professor, Nursing

Professionals at other institutions who have been approved to teach select IUP courses:

Medical Technology

Marcy Anderson, M.S., M.T.(ASCP)
Program Director, School of Medical Technology Polyclinic Medical Center, Harrisburg

Ronald Berardi, M.D., Loyola University of Chicago
Medical Director, School of Medical Technology, Latrobe Area Hospital, Latrobe

Patricia A. Chappell, B.S., M.T.; B.S., Thomas Jefferson University
Program Director, School of Medical Technology, Conemaugh Valley Memorial Hospital, Johnstown

Paul J. Cherney, M.D., University of Pennsylvania
Medical Director, Medical Technology Program, Abington Memorial Hospital, Abington

James T. Eastman, III, M.D., University of Cincinnati College of Medicine
Medical Director, School of Medical Technology, Lancaster General Hospital, Lancaster

Nadine E. Gladfelter, M.S., Temple University
Program Director, School of Medical Technology, Lancaster General Hospital, Lancaster

Sidney Goldblatt, M.D.
Medical Director, Conemaugh Valley Hospital, Johnstown

Phyllis Gotkin, Ph.D., M.T.(ASCP)
Program Director, Clinical Laboratory Science Program, Allegheny University Hospitals, Elkins Park Division, Elkins Park

Joan Grote, B.S., M.A., M.T.(ASCP); B.S., St. Francis College
Program Director, School of Medical Technology, Latrobe Area Hospital, Latrobe

Stephen M. Johnson, M.S., M.T.(ASCP); M.S., The Ohio State University
Program Director, School of Medical Technology, St. Vincent Health Center, Erie

Kenneth H. Jurgens, M.D.; B.A., State University of New York; M.D., State University of New York at Downstate
Medical Director, School of Medical Technology, St. Vincent Health Center, Erie

Thelma Kline, M.T.(ASCP), S.M.; B.S., Indiana University of Pennsylvania
Assistant to Program Director, School of Medical Technology, Latrobe Area Hospital, Latrobe

Joseph R. Noel, B.S., York College
Director, Medical Technology Program, Altoona Hospital, Altoona

Julian W. Potok, D.O., Philadelphia College of Osteopathic Medicine
Co-director, School of Medical Technology, Polyclinic Medical Center, Harrisburg

Frank Rudy, M.D., University of Pittsburgh

Co-director, School of Medical Technology, Polyclinic Medical Center, Harrisburg

Kathleen Sazama, M.D., J.D.

Medical Advisor, Clinical Laboratory Science Program, Allegheny University Hospitals, Elkins Park Division, Elkins Park

Barbara Scheelje, B.S., M.T.(ASCP); B.S., Colby Sawyer College

Program Director, Medical Technology Program, Abington Memorial Hospital, Abington

Eugene Sneff, M.D., Hahnemann Medical College

Director, Department of Laboratory Services, Altoona Hospital, Altoona

Nuclear Medicine Technology

Elaine M. Markon, R.T.(N), C.N.M.T., M.S., Ohio University

Program Director, Nuclear Medicine Institute, The University of Findlay, Findlay, Ohio

M. Gary Sayed, Ph.D., Radiological Science Medical College of Ohio

Assistant Director, Nuclear Medicine Institute, The University of Findlay, Findlay, Ohio

Respiratory Therapy

Jack Albert, M.Ed., R.R.T., C.P.F.T.; M.Ed., University of Pittsburgh; **B.S.**, The Ohio State University; **B.S.**, Slippery Rock University of Pennsylvania

Instructor, School of Respiratory Care, Western Pennsylvania Hospital, Pittsburgh

Gail W. Druga, A.S., R.P.F.T., C.C.P.T.

Instructor, School of Respiratory Care, Western Pennsylvania Hospital, Pittsburgh

Paul Fiehler, M.D., F.C.C.P.; M.D., University of Pittsburgh

Medical Director, School of Respiratory Care, Western Pennsylvania Hospital, Pittsburgh

Jeffery Alan Heck, M.S., R.R.T.; B.S., The Ohio State University ; **M.S.**, University of Pittsburgh Medical Center

Instructor, School of Respiratory Care, Western Pennsylvania Hospital, Pittsburgh

Lisa Renee Hershelman, B.S., R.R.T.; B.S., Indiana University of Pennsylvania

Respiratory Therapist, Western Pennsylvania Hospital, Pittsburgh

Kathryn G. Kinderman, M.S., R.R.T., C.P.F.T.; B.S., Indiana University of Pennsylvania; **M.S.**, The University of Pittsburgh

Richard J. Laurent, B.S., R.R.T.; B.S., University of Pittsburgh

Lecturer, St. Francis School of Respiratory Therapy, Pittsburgh

William J. Malley, M.S., R.R.T., C.P.F.T.; M.S., University of Pittsburgh

Director, School of Respiratory Care, Western Pennsylvania Hospital, Pittsburgh

Catherine L. Myers, B.S., R.R.T.; M.Ed., The Pennsylvania State University

Instructor, School of Respiratory Care, Western Pennsylvania Hospital, Pittsburgh

Robin Nitkulinec, B.S. R.R.T.; B.S., Indiana University of Pennsylvania

Senior Supervisor, Department of Respiratory Care. Western Pennsylvania Hospital, Pittsburgh

Drew Wiltsie, A.S., R.R.T.; A.S., Youngstown State University

Education Coordinator, Respiratory Care Services, Childrens Hospital of Pittsburgh, Pittsburgh

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Education

College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[ED242](#) [ED281](#) [ED342](#) [ED408](#) [ED415](#) [ED421](#) [ED423](#) [ED431](#) [ED441](#) [ED442](#) [ED451](#) [ED452](#) [ED453](#) [ED455](#) [ED456](#)
[ED462](#) [ED481](#) [ED482](#) [ED495](#) [ED499](#)

ED 242 Pre-student Teaching Clinical Experience I

var-1sh

Prerequisite: Admission to teacher certification

Observation/participation in a basic education classroom beginning not later than the sophomore year.

ED 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

ED 342 Pre-student Teaching Clinical Experience II

var-1sh

Prerequisites: ED242 and admission to junior standing

Students work toward the development of specific competencies that relate to individual major fields of teaching.

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ED 408 Reading in the Content Areas

3c-0l-3sh

Prerequisite: EL222

Problems related to teaching students reading and study skills specifically needed in each of the subject areas at the elementary level. Content teachers learn how to develop students' competence in these skills as part of their regular classroom instruction.

ED 415 Computers in the School Curriculum

3c-0l-3sh

Prerequisite: BE/CO/IM101 or permission of the instructor

Students will use a variety of computer software including word processing, record management programs, and simulation programs. Emphasis will be on the application of computer programs within the K-12 school curriculum.

ED 421 Student Teaching

var-6sh

Prerequisite: Admission to Student Teaching

Experience in teaching at the elementary level; coordination and visitation by a university faculty member with daily supervision by a cooperating classroom teacher.

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ED 423 Professional Practicum, Including School Law

var-3sh

Series of conferences and related activities to prepare students for actual teaching experiences. Parallels student teaching experience in junior and senior years. (Elementary Education majors only)

ED 431 Teaching in Home Economics

var-6sh

Prerequisite: Admission to Student Teaching

Experience in teaching home economics at the secondary level.

ED 441 Student Teaching

var-6-12sh

Prerequisite: Admission to Student Teaching

Experience in teaching at the elementary or secondary level; coordination and visitation by a university faculty member with daily supervision by a cooperating classroom teacher.

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ED 442 School Law

1c-0l-1sh

Required of all teacher certification students. Includes overview of legal principles that apply to special areas of education. Must be taken prior to student teaching.

ED 451 Teaching Science in the Secondary School

2c-2l-3sh

Prerequisite: Admission to Student Teaching

Background to help science majors meet the problems of teaching science. Various inquiry approaches useful in meeting objectives of a contemporary science class are taught and exemplified.

ED 452 Teaching of English and Communication in the Secondary School

3c-0l-3sh

Prerequisites: EN314, 323, and 380 and admission to Student Teaching

This course is a prerequisite to student teaching in English. Introduces the student to current professional practices in the teaching of English and communications in high school.

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ED 453 Teaching of Foreign Languages in the Elementary/Secondary Schools

3c-0l-3sh

Prerequisites: Successful completion of 321-322 and 351-352 in the student's major language; passage of a language proficiency examination or permission of the instructor, and admission to Student Teaching

The student will study current theories of language acquisition and methods of language teaching for the elementary and secondary school. Through hands-on practice and peer teaching demonstrations, the student will develop techniques for teaching functional language, planning lessons, setting curricular objectives, testing language skills, and selecting/adapting materials for both elementary and secondary school classrooms. (Course taught fall semester only)

ED 455 Teaching of Social Science in Secondary Schools

3c-01-3sh

Prerequisite: Admission to Student Teaching

Study of modern methods and techniques for teaching social science and of current curricula in social science.

ED 456 Teaching Math in the Secondary Schools

3c-01-3sh

Prerequisite: Admission to Student Teaching

Study of modern methods and techniques for teaching mathematics and current curricula.

ED 462 Issues and Innovations in Education

3c-01-3sh

Study of issues and innovations which influenced education will be included in this course. Educational innovations and issues which deal with curriculum, school organization, and materials of instruction will be examined.

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ED 481 Special Topics

3c-01-3sh

Prerequisite: By permission only

Provides an opportunity for students to investigate in-depth an area of education under professional supervision.

ED 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

ED 495 International Study Tour in Education

var-3sh

Study of various peoples through their cultural settings and educational systems; on-site visitation to selected schools and other social agencies and institutions; seminars with school officials and directed readings.

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ED 499 Multicultural/Multiethnic Education

2c-01-2sh

Prerequisite: One methods course must be taken prior to, or concurrently with, ED499

Provides students with an understanding and appreciation of cultural diversity in the United States. Students will gain the ability to locate and develop curricular materials appropriate to this country's diversity.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

English

Department of English College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EN100](#) [EN101](#) [EN121](#) [EN122](#) [EN150](#) [EN202](#) [EN208](#) [EN210](#) [EN211](#) [EN212](#) [EN213](#) [EN214](#) [EN215](#) [EN216](#) [EN217](#) [EN220](#) [EN221](#) [EN225](#) [EN281](#) [EN301](#) [EN302](#) [EN303](#) [EN304](#) [EN305](#) [EN306](#) [EN307](#) [EN310](#) [EN311](#) [EN312](#) [EN313](#) [EN314](#) [EN315](#) [EN316](#) [EN317](#) [EN318](#) [EN319](#) [EN320](#) [EN322](#) [EN323](#) [EN324](#) [EN325](#) [EN326](#) [EN329](#) [EN330](#) [EN332](#) [EN333](#) [EN334](#) [EN335](#) [EN336](#) [EN337](#) [EN338](#) [EN344](#) [EN348](#) [EN349](#) [EN354](#) [EN357](#) [EN385](#) [EN386](#) [EN387](#) [EN390](#) [EN391](#) [EN393](#) [EN394](#) [EN395](#) [EN396](#) [EN401](#) [EN420](#) [EN422](#) [EN430](#) [EN432](#) [EN434](#) [EN436](#) [EN460](#) [EN461](#) [EN462](#) [EN481](#) [EN482](#) [EN493](#)

Note: The English Department has undergone extensive course revision which are pending Council of Trustees' approval.

EN 100 Basic Writing

3c-0l-3sh

Designed to develop the basic English skills necessary for clear and effective communication. Reserved for selected students. This course does not meet General Education English or Liberal Studies writing requirements.

EN 101 College Writing

3c-var-4sh

Prerequisite: EN100, where required by placement testing

Normally to be taken the first semester at IUP. Courses use readings in the nature and history of language, semantic and linguistic analysis, and problems in rhetoric and other approaches to composition. Seven theme-length expository papers (or the equivalent) are written, in addition to shorter exercises and a written final examination.

EN 121 Humanities Literature

3c-0l-3sh

Prerequisite: EN101

Introduces students to literature of various genres through a careful analysis of poetry, fiction, and drama. Includes literature of various time periods, nationalities, and minorities.

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EN 122 Introduction to Literary Analysis

3c-0l-3sh

Prerequisite: EN101

Acquaints students with the literary genres (especially fiction, poetry, and drama) by means of examples of each and provides them with some of the various critical approaches to the interpretation of literature so that they may gain the ability to apply them. At the conclusion of the course, students are expected to be able to read literature perceptively and to write critical papers about it. (Offered as EN210 prior to Spring, 1998)

EN 150 English for Foreign Students

3c-01-3sh

Prerequisite: EN101

Acquaints students with the literary genres (especially fiction, poetry, and drama) by means of examples of each and provides them with some of the various critical approaches to the interpretation of literature so that they may gain the ability to apply them. At the conclusion of the course, students are expected to be able to read literature perceptively and to write critical papers about it. (Offered as EN210 prior to Spring, 1998)

EN 202 Research Writing

3c-01-3sh

Prerequisites: EN101, sophomore standing

Teaches students to read, analyze, and evaluate nonfiction sources and to present the results of their analysis in clear, organized, carefully documented research papers. The focus of reading and research in each section will be determined by the instructor.

EN 208 The Art of the Film

3c-01-3sh

Concentrates on the film as an artistic medium. Eight to twelve motion pictures are shown during semester and are analyzed in class discussions.

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EN 210 British Literature to 1660

3c-01-3sh

Prerequisites: EN101, 122, or permission

Surveys British literature from its beginnings to about 1660, acquainting students with the experience of reading many of the primary materials (whole works whenever possible or full, free-standing parts) and provides them with background information concerning the development and flowering of the various genres, the dominant ideas of each period, and the social and cultural context of the separate works. (Offered as EN210 prior to Spring, 1998)

EN 211 British Literature 1660-1900

3c-01-3sh

Prerequisites: EN101, 122, or permission

Surveys British literature from about 1660 to the beginning of the twentieth century, acquainting students with the experience of reading many of the primary materials (whole works whenever possible or full, free-standing parts) and providing them with background information concerning the development and flowering of the various genres, the dominant ideas of each period, and the social and cultural context of the separate work. (Offered as EN212 English Literature prior to Spring, 1998)

EN 212 American Literature: Beginnings to 1900

3c-01-3sh

Prerequisites: EN101, 122, or permission

Provides an understanding of American literature from its beginning to about 1900. The course will concentrate primarily upon a relatively small number of major works, each of which will help to illustrate the "spirit of the age" it represents. (Offered as EN213 American Literature: Beginnings to the Present prior to Spring, 1998)

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EN 213 British and American Literature Since 1900

3c-01-3sh

Prerequisites: EN101, 122, or permission

A survey of major authors and works in British and American literature since 1900. Begins with the shift from Victorianism and late nineteenth-century literature into modernism, as exemplified by writers such as Woolf, Hemingway, and O'Neill, and continues with postmodernism and contemporary literature.

EN 214 The Novel

3c-01-3sh

Prerequisites: EN101, 122, or permission

This course surveys the development of the novel from Cervantes' Don Quixote to the present with emphasis on major writers and forms in English. Includes consideration of teaching the novel.

EN 215 Poetry

3c-01-3sh

Prerequisites: EN101, 122, or permission

A study in appreciation of poetry, with special attention to the technique of the poet and structure of poetry. Includes consideration of teaching poetry.

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EN 216 Short Fiction

3c-01-3sh

Prerequisites: EN101, 122, or permission

A study of the development of the short story from the middle of the nineteenth century to the present with attention to form, structure, and types of the story. Includes consideration of teaching short fiction.

EN 217 Drama

3c-01-3sh

Prerequisites: EN101, 122, or permission

A study of selected plays from various periods in an attempt to understand the function of drama. Includes consideration of teaching drama.

EN 220 Advanced Composition I

3c-01-3sh

Prerequisite: EN202

Primarily seeks to improve writing style, particularly in the more utilitarian forms, such as magazine article and personal essay.

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EN 221 Creative Writing

3c-01-3sh

Prerequisite: EN202

This is a seminar course in which students are expected to produce a substantial body of written work in one or more of the creative genres, the particular kind of writing chosen with regard to the special interests and abilities of each student.

EN 225 Introduction to Literature by Women

3c-01-3sh

Prerequisites: EN121 or 122 and 202

Major trends and motifs across genres (fiction, nonfiction, poetry, autobiography) which reflect themes and subjects of continuing interest to women writers. The intersection of genre with race, ethnicity, and social class will be of

particular significance. (Offered as EN384 prior to Spring, 1998)

EN 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

EN 301 British Medieval Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

This course examines particular literary traditions in England from the eleventh to the fifteenth centuries, excluding Chaucer. The purpose will be to acquaint students with the diversity of materials, ranging from prose to verse, oral to written, and serious to comic. Most texts will be taught in the original Middle English, accompanied by side glosses. Translations will be used where appropriate. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 302 Renaissance Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines major works and genres in Elizabethan literature such as pastoral and tragedy and key fiction writers, dramatists, and poets during 1558-1603. Rather than survey the period comprehensively, the purpose here is to focus closely on a specific literary period and on the writers of this period as selected by the instructor. (Offered as EN361 The Renaissance prior to Spring, 1998)

EN 303 British Enlightenment Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

British Enlightenment Literature refers to the imitation of the Greek and Roman authors of antiquity. The course begins with the assumptions and goals of neoclassical literature and integrates the intellectual debates and contemporary politics (patriarchy, nascent capitalism, empire, slavery, class divisions) that flourished alongside of (and that shaped the emergence of) new genres (the slave narrative, the novel, gothic tales, the periodical essay). Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 304 British Romantic Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Emphasizes the relationship between literature and its milieu. Focuses primarily on English Romantic Poets, but considers development in Germany, France, and America and examines its continuing manifestations in literature, culture, and politics. Rather than survey the period comprehensively, the purpose here is to focus closely on a specific literary period and on the writers of this period as selected by the instructor. (Offered as EN360 Romanticism prior to Spring, 1998)

EN 305 British Victorian Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines literary works against a background of rapidly changing social, economic, religious, and political forces.

Counter-culture movements, such as the Pre-Raphaelites, will be examined against "high Victorianism" to develop a sense of the tremendous intellectual and political energy of the period. Roots of recent concerns such as feminism, political literalism, and capitalism will be explored to help us better understand our own as well as the Victorian age. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 306 Modern British Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, and 213

Examines major works and trends in modern British literature, such as modernism or key fiction writers, dramatists, or poets during the first half of the twentieth century. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 307 Contemporary British Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines major works and trends in contemporary British literature, such as late modernism, postmodernism, the age of diminishment, or key novelists, dramatists, and/or poets from the period, 1945 to the present. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 310 Public Speaking

3c-01-3sh

Prerequisite: EN101

Fundamental principles of public speaking, audience analysis, interest and attention, and selection and organization of speech material.

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EN 311 Oral Interpretation

3c-01-3sh

Prerequisite: EN101

Emphasizes understanding and appreciation of literature through developing skill in reading aloud.

EN 312 Speech--Persuasion

3c-01-3sh

Prerequisites: EN202, 310

Advanced study of problems involved in influencing an audience.

EN 313 The Rhetorical Tradition

3c-01-3sh

Prerequisites: EN101, 310

Survey of rhetorical theory from Greek and Roman through modern times.

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EN 314 Speech and Communication in the Secondary English Classroom

3c-01-3sh

Prerequisites: EN122, 202

Offers students practical and theoretical approaches to relationships between oral and written communication. The

course is performance based (involving a variety of communication activities) and knowledge based (involving study of research on language arts relationships). Emphasis is given to integration of the four language arts for improving teachers' own communication skills as well as those of their students.

EN 315 American Literature to 1820

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

The beginnings of American literary cultures from sixteenth-century pre-Columbian indigenous contacts with European explorations, through diverse colonializations (Hispanic, French, and British) including the importation of African slaves, up to the American Revolution and emergent U.S. literary nationalism in the first decades of the nineteenth century. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 316 American Literature 1820-1880

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, and 213

Examines major works and trends in U.S. literature, from the Federalist, Romantic, and/or Realistic periods. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 317 American Literature 1880-1940

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines representative U.S. writers during 1880-1940. Includes traditional figures as well as writers who have recently entered the canon. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

EN 318 Literature for Adolescents

3c-01-3sh

Prerequisites: EN101, 122, or permission, English Education major

Surveys poetry, drama, and fiction with which the adolescent is familiar through school work and personal reading. (Offered as EN218 prior to 1993-94)

EN 319 American Literature 1940-present

3c-01-3sh

Prerequisites: EN202 and at least two courses from EN210, 211, 212, 213

Additional prerequisites for B.A. English majors: EN210, 211, 212, 213 Focuses on various movements, themes, genres, and authors writing in the United States since 1940. Not a survey course; each section will develop an extended treatment of a particular topic selected by the instructor. Emphasizes writing by living writers to develop an understanding of the diversity, formally and thematically, of current U.S. literary production across genders and ethnicities.

EN 320 Advanced Composition II

3c-01-3sh

Prerequisites: EN202, 220

Workshop and tutorial atmosphere for students who intend to write or teach writing.

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EN 322 Technical Writing

3c-01-3sh

Prerequisite: EN202

Focuses on helping the student to acquire and to apply communication skills essential to the technical and professional writer.

EN 323 Teaching Literature and Reading in the Secondary School

3c-01-3sh

Prerequisites: EN122, 202

Introduces students to the theory and research on teaching literature and reading in the secondary school. Reviews reader-response literary theory and classroom-based research on teaching literature. Also reviews socio-psycholinguistic reading theory and classroom-based research on teaching reading.

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EN 324 Teaching and Evaluating Writing

3c-01-3sh

Prerequisites: EN122, 202, English Education major or permission

A study of modern approaches to the teaching of writing, including current theories on the composing process, as well as instruction in evaluating, including holistic scoring. Includes practice in writing.

EN 325 Creative Writing: Poetry

3c-01-3sh

Prerequisites: EN221, permission of instructor based on samples of student's work

This is a writing workshop for students who wish to focus intensively on the writing and revision of poetry and on developing an audience for one's works.

EN 326 Creative Writing: Fiction

3c-01-3sh

Prerequisites: EN221, permission of instructor based on samples of student's work

This is a writing workshop for students who wish to write fiction under the guidance of an instructor. The workshop focuses intensively on the writing and revision of prose fiction and on developing an audience for one's works.

EN 329 The History of the English Language

1c-01-1sh

Prerequisite: EN202

Studies historical development of the English language, as a basis for a better understanding of modern American English.

EN 330 The Structure of English

3c-01-3sh

Prerequisite: EN202

An introduction to the fundamentals of language study with equal emphasis on the sound, word, sentence, meaning, and discourse patterns of English. Educationally relevant topics, such as applications of linguistics to the teaching of English language and literature, varieties of grammar, and linguistic descriptions of styles and registers are an integral part of the course. Course is a prerequisite for ED452: Teaching of English in the Secondary School.

EN332 Advanced Film

3c-01-3sh

Prerequisites: EN101, 208

Offers a close examination of classic and contemporary films and film theory from a variety of critical perspectives: spectatorship, cinematic authorship, feminism, historiography, genre, and cultural studies. Pays special attention to the treatment of women and African-Americans in film.

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EN 333 Psycholinguistics

3c-01-3sh

Prerequisite: EN202

Psycholinguistics concerns the interrelation between language system and behavior and various factors of human psychology. Surveys developments since the 1940s, including relationships between language and perception, biology, memory, meaning, and cognition, as well as oral and written behavior. Students of language and literature may improve their assumptions about how human beings use language.

EN 334 ESL Methods and Materials

3c-01-3sh

Prerequisite: Junior standing or permission of the instructor

An introduction to English as a Second Language theory and practice. Aims: (1) general understanding of current theory and methods of teaching ESL; (2) ability to select appropriate, and adapt existing, materials for elementary and high school ESL students. Recommended for all English teachers who expect to have ESL students in their classes.

EN335 The Essay

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Focuses on the creation and development of the essay in English, its form and content, from its beginnings to the present. Students will begin by studying Francis Bacon, the first English essayist, and follow the evolution of the form to the present day.

EN 336 Language, Gender, and Society

3c-01-3sh

Prerequisites: EN202, junior standing

Investigates the various ways that language and gender interact and intersect in society. Examines such questions as: Does society use language to favor one sex over the other? Why is language a crucial component in formulating constructs of masculinity and femininity? What stereotypes of gender-based language are promoted in our society? How can we analyze language to reveal disparate views and treatment of the sexes?

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EN 337 Myth

3c-01-3sh

Prerequisites: EN202 and at least two courses from EN210, 211, 212, 213

Additional prerequisites for B.A. English majors: EN210, 211, 212, 213 Examines the nature and function of the mythic experience and explores the archetypal patterns of myths from various cultures. (Offered as EN370 Myth and Literature prior to Spring, 1998)

EN 338 Oral Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Acquaints students with the nature of oral composition, the habits of thought that orality fosters, and the particular mode of awareness the oral dimension of literature demands of an audience (and awakens in a reader). At the

conclusion of the course students should have an understanding of the formulaic nature of such purely oral forms as the ballad and the epic and an awareness of the manner in which orality patterns thought differently from writing, and they should be able to detect oral features and patterns in works of literature from cultures not primarily oral but containing a high "oral residue." (Offered as EN353 The Oral Dimension prior to Spring, 1998)

EN 344 Ethnic American Literature

3c-01-3sh

Prerequisites: EN202 and at least two courses from EN210, 211, 212, 213

Additional prerequisites for B.A. English majors: EN210, 211, 212, 213 Course is concerned with ethnic U.S. experiences as expressed in poetry, fiction, drama, and autobiography. The topic will vary and be announced in advance. Examples include Asian-American, Hispanic, Irish-American, Jewish-American, and Native-American literatures.

EN 348 African-American Literature

3c-01-3sh

Prerequisites: EN121 or 122 and 202

Primarily nineteenth- and twentieth-century African-American literature (poetry, fiction, nonfiction): includes works by Frederick Douglass, W. E. B. Du Bois, spirituals and folk poetry, Harriet B. Wilson, Jean Toomer, Richard Wright, Audrey Lorde, and Toni Morrison. Emphasis on historical context and an Afrocentric approach.

EN 349 English Bible as Literature

3c-01-3sh

Prerequisites: EN121 or 122 and 202

Considers literary aspects of the English Bible by relating earlier translations to the Authorized Version of 1611 and by tracing some of the major influences of the King James Bible upon writers and speakers of modern English. Offers a close reading of the major narrative and poetic portions of the Old Testament.

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EN 354 Classical Literature in Translation

3c-01-3sh

Prerequisites: EN122, 202

Masterpieces studied range from those of ancient Greece to Middle Ages. English literature and American literature excluded. (Offered as EN345 prior to Spring, 1998.)

EN 356 Film Theory

3c-01-3sh

Prerequisites: EN101, 208

An introduction to major film theories, studied in relation to representative films. Details the complex relationship between film production and film theory: i.e., how theorists have attempted to explain what appears on the screen, its impact, and its relation to "reality," and how filmmakers have responded to the works of theorists (with the two sometimes being the same). Goes far deeper into understanding film than EN208, which focuses mainly on how film is constructed through aesthetic and institutional processes.

EN 357 Major Figures in Film

3c-01-3sh

Prerequisites: EN101, 208

Studies major artists and their contributions to the development of film as an art form from its beginnings to the present. Close analyses of directors, cinematographers, editors, screenwriters, or actors – as individuals or as representatives of a movement in film. The topics will vary from semester to semester; thus, one semester may

concentrate on a specific director such as Alfred Hitchcock; another semester might study women (as directors, actresses, and editors); and yet another semester might study a collective movement such as film noir.

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EN 385 Advanced Women's Literature

3c-01-3sh

Prerequisites: EN202 and for non-majors EN225

Considers issues of genre and canon revision and why particular genres may have particular appeal for women writers. While many of our readings will be by "literary women," we will also consider works by women who were professionals in nonliterary disciplines.

EN 386 Regional Literature in English

3c-01-3sh

Prerequisites: EN202 and at least two courses from EN210, 211, 212, 213

Additional prerequisites for B.A. English majors: EN210, 211, 212, 213 Examines the contributions of a particular region to national literature. The focus of the course might be any of the following: Appalachian writers, local color writers, New England writers, Southern writers, writers of the American West, or Canadian writers.

EN 387 Irish Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

An introduction to Irish literature since 1800, with particular emphasis on the Literary Revival in the early twentieth century. Key authors include Yeats, Joyce, Synge, O'Casey, Edgeworth, Somerville and Ross, Gregory, Beckett, and Heaney. The development of Irish writing will be examined within the contexts of Irish history, language, culture, and politics.

EN 390 Literary Tour: Britain

3c-01-3sh

Offered selected summers, for five weeks during the first or second summer session. Visits London, Stratford, and Cambridge or Oxford, as well as other places important in English literature.

EN 391 Selected Works from the Medieval Period

3c-01-3sh

Prerequisites: EN/FL121 or EN122, EN202

Comparative study of selected works of major importance per se and as representative of major themes of medieval European literature. Also listed as FL391.

EN 393 Romanticism

3c-01-3sh

Prerequisites: EN/FL121 or EN122, EN202

Study of the principal authors and works of late eighteenth-century and early nineteenth-century Europe and the unique national characteristics of the Romantic movement in lyric, drama, and prose. Also listed as FL393.

EN 394 Nineteenth-Century European Novel in Translation

3c-01-3sh

Prerequisites: EN/FL121 or EN122, EN202

A survey of major nineteenth-century European novels in translation (excluding English), emphasizing the rise of realism and naturalism and the cultural, historical, social, and artistic relationships between the various national

literatures. Also listed as FL394.

EN 395 Selected Writers from Twentieth-Century Europe

3c-0l-3sh

Prerequisites: EN/FL121 or EN122, EN202

Comparative study of selected works of major importance per se or as representatives of major trends in twentieth-century literature. Also listed as FL395.

EN 396 The Literature of Emerging Nations

3c-0l-3sh

Prerequisites: EN/FL121 or EN122, EN202

A comparative study of a selection of literature written in major European languages but originating in the nations of the developing world. Works will be mainly prose fiction (although essay, theater, and poetry may be included) and reflect a diversity of geographical, cultural, and prior colonial circumstances. Also listed as FL396.

EN 401 Advanced Literary Theory and Criticism

3c-0l-3sh

Prerequisites: EN202, 210, 211, 212, 213

Acquaints students with major issues and problems in literary theory. Rather than survey the history of criticism and theory, this course focuses on modern and contemporary critical schools and methods. The purpose is to introduce students to a select group of influential theories and theorists and how such theories impact the way we read, study, and teach literature and cultural studies.

EN 420 Special Writing Applications

3c-0l-3sh

Prerequisite: EN220

Offers students who are well into their disciplines "forums" for advanced reading and writing about the cultural, professional, and personal uses of textual knowledge. Students will read, analyze, and compose essays that build meaning around disciplinary knowledge, independent reading, and personal or preprofessional experience. They will be encouraged to make connections between disciplinary knowledge and emerging knowledge or experience.

EN 422 Technical Writing II

3c-0l-3sh

Prerequisite: EN322

This is an advanced workshop/tutorial that provides intensive instruction in technical writing. Technical Writing II builds on the basics of audience, readability, proposals and reports, letters, memos, and resumes which are covered in Technical Writing I. The course describes the writer's role in such areas as legal and ethical aspects of technical communication; planning, testing, reviewing, and evaluating documents; and proofreading and editing.

EN 430 Major British Author

3c-0l-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines major works of a single major author, including biographical, literary, and cultural contexts. Places the author within both intellectual/cultural history and literary developments. Major author studied in a particular semester to be announced in advance.

EN 432 Chaucer

3c-0l-3sh

Prerequisites: EN202, 210, 211, 212, 213

Studies Chaucer, his life, his language, the development of his literary style, and his art, with and through his major poetical works. (Offered as EN340 prior to Spring, 1998)

EN 434 Shakespeare

3c-01-3sh

Prerequisites: EN202 and at least two courses from EN210, 211, 212, 213

Additional prerequisites for BA English majors: EN210, 211, 212, 213 Studies Shakespeare's development as a poetic dramatist against background of Elizabethan stage; examines audience, textual problems, language imagery, and philosophy. (Offered as EN341 prior to Spring, 1998)

EN 436 Major American Authors

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Studies in the literary output of a major American author or authors against the background of the social and literary milieus in which the works were created. Specific subject or subjects to be announced by the instructor. (Offered as EN343 prior to Spring, 1998)

EN 460 Topics in Film

3c-01-3sh

Prerequisites: EN101, 208

Selected films dealing with a specific, advanced topic will be viewed and assessed to explore the different roles that film plays. Topic to be announced in advance.

EN 461 Topics in British Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines major works of a particular topic in British literature by focusing on its cultural and literary contexts. Topic to be announced in advance.

EN 462 Topics in American Literature

3c-01-3sh

Prerequisites: EN202, 210, 211, 212, 213

Examines major works of a particular topic in American literature by focusing on its cultural and literary contexts. Topic to be announced in advance.

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EN 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Vary from semester to semester covering such diverse topics as autobiography, science fiction, folklore, the political novel, black theater, etc.

EN 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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EN 493 Internship

var-3-12sh

On-the-job training opportunities in related areas. Application and acceptance to internship program required.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

History

Department of History
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[HI195](#) [HI200](#) [HI201](#) [HI202](#) [HI203](#) [HI210](#) [HI212](#) [HI214](#) [HI281](#) [HI301](#) [HI302](#) [HI303](#) [HI304](#) [HI305](#) [HI306](#) [HI307](#) [HI308](#)
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[HI390](#) [HI391](#) [HI480](#) [HI481](#) [HI482](#) [HI483](#) [HI493](#)

HI 195 The Modern Era

3c-0l-3sh

Interprets the development of two centers of civilization, Europe and America, within a global context and extends from at least the Age of Enlightenment through the present. (Majors should substitute HI202 for HI195 to meet the Liberal Studies humanities requirements.)

HI 200 Introduction to History

3c-0l-3sh

For history majors and concentrates. Topics include philosophy of history, important schools of history and historians, and methods of historical research. Student is encouraged to become a better historian and to identify with historical profession. For History majors only.

HI 201 Western Civilization Before 1600

3c-0l-3sh

Survey course presenting in various forms the origin and development of major political, social, religious, and intellectual institutions in Western Civilization to approximately 1600. For History majors or by instructor's permission.

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HI 202 Western Civilization Since 1600

3c-0l-3sh

Development of Western civilization from the expansion of Europe to the present, including political, diplomatic, economic, social, and cultural areas. Introduces issues and interpretations encountered in upper-level courses. For History majors or by instructor's permission.

HI 203 United States History for Historians

3c-0l-3sh

Introduces aspiring historians to United States history since 1763. Emphasizes the issues, methods, and problems that currently concern professional historians. For History majors or by instructor's permission.

HI 210 Ancient Civilization: The Middle East and the Eastern Mediterranean

3c-0l-3sh

An examination of the development and the spread of ancient civilization in ancient Middle East and the Eastern Mediterranean. Topics of study will include the characteristics of civilization and the development of political, social, economic, and cultural institutions in the river valley centers and the diffusion to the fringe areas. (Course designed for nonmajors)

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HI 212 Ancient and Medieval Europe

3c-0l-3sh

An examination of the development of civilization in Europe during the ancient and medieval periods. The course will focus on the Ancient Greek and Roman civilizations and the medieval European civilization. The characteristics and institutions of civilization will be stressed as well as the political history.

HI 214 Themes in American History

3c-0l-3sh

Prerequisite: HI195

Open only to non-History majors. Designed to give students an appreciation of the basic themes and issues in the making of American society. Students will examine themes such as the fruition of democracy, the American dream, slavery and freedom, the tensions between liberty and order, and the role of the United States in a world setting.

HI 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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HI 301 History of Ancient Greece

3c-0l-3sh

Will analyze major political, social, and economic developments in ancient Greek civilization from Bronze Age to death of Alexander.

HI 302 History of Ancient Rome

3c-0l-3sh

Will trace Roman history from early Republic down to fall of Empire. Roman political theory will be particularly emphasized.

HI 303 Medieval Europe I, 400-1000

3c-0l-3sh

History of early Medieval Europe, from decline of Rome to beginnings of High Middle Ages; emphasis on political, social, economic, religious, and intellectual developments.

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HI 304 Medieval Europe II, 1000-1300

3c-0l-3sh

History of late Medieval Europe, from High Middle Ages to Renaissance period; emphasis on political, social,

economic, religious, and intellectual developments.

HI 305 Renaissance and Reformation

3c-0l-3sh

History of Europe from c. 1250; rise of commercial city, kings, and pressures on Christian Church to 1600. Some consideration of technology and voyages.

HI 306 Early Modern Europe

3c-0l-3sh

Greatness of France under Louis XIV; Sweden; Thirty Years' War. Emergence of modern society; French Revolution.

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HI 307 History of Europe: 1815-1914

3c-0l-3sh

Study of Europe in 19th century, with emphasis on the emergence of major thought patterns, Romanticism, Nationalism, Socialism, and Positivism.

HI 308 Twentieth-Century Europe

3c-0l-3sh

Political, economic, and diplomatic trends in Europe since 1900, with major emphasis on causes and results of war and search for security.

HI 311 Rise and Fall of Hitler's Empire

3c-0l-3sh

In-depth study of Hitler and the Nazi order; offers an analysis of nineteenth-century origins of Nazi ideology and intensively analyzes domestic and foreign totalitarian policy (1920-1945), including Holocaust, Resistance, and the postwar Nuremberg Trials.

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HI 320 History of England to 1688

3c-0l-3sh

Survey of the growth of the English nation, with emphasis on political, social, and economic developments leading to seventeenth-century conflict between Crown and Parliament.

HI 321 History of England, 1688 to Present

3c-0l-3sh

Survey of the growth of England as a democratic constitutional monarchy. Attention directed to industrial revolution and to imperial expansion and England's role in twentieth-century world. Attention given to social and cultural history.

HI 322 French Revolution and Napoleon

3c-0l-3sh

Brief sketch of Old Regime, concentration on Revolution and Empire, with emphasis on politics, social structure, diplomacy, and economics.

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HI 324 History of Germany to 1848

3c-0l-3sh

Study of the development of Germany politically and culturally from ancient times, emphasizing medieval and early modern periods to 1849.

HI 325 History of Germany: 1849 to the Present

3c-0l-3sh

Study of the political and cultural development of modern Germany from the Revolution of 1848, including imperial, republican, and totalitarian phases, to post-World War II East and West Germany.

HI 326 History of Russia

3c-0l-3sh

General survey of Russian history, culture, and institutions. Special consideration given to study of historical forces formative of Revolution of 1917.

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HI 327 Soviet Union and Contemporary Russia

3c-0l-3sh

Prerequisites: Sophomore standing, completion of HI195 (nonmajors)

Analyzes the period from 1855 to the present, including the attempts at modernization by Imperial Russia, the creation of the Soviet Union and further modernization, and the collapse of the Soviet Union.

HI 330 History of the Islamic Civilization

3c-0l-3sh

An approach to learning about a non-Western culture: Muhammad, Arabs, and Muslims as creators of a great civilization from rise of Islam to 1800; emphasis on cultural institutions of Islam and their interrelationships within Middle East.

HI 331 Modern Middle East

3c-0l-3sh

Survey of changes that have taken place in Middle East and in Islam since eighteenth century and of contemporary problems in that region.

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HI 340 Colonial America

3c-0l-3sh

Survey of original thirteen states from their inception as colonies within the British empire to 1763, the eve of Independence. Attention is given to their political development; economic position within the empire; relations with Indians; and evolution of social, educational, and religious life.

HI 341 American Revolution

3c-0l-3sh

An examination of Whig-Tory participants of American Revolution. Examines events from 1763 to 1783. Changing interpretations of the causes and effects of the revolution will be discussed.

HI 342 The Early Republic

3c-0l-3sh

Survey of United States history from 1783 to 1850, with special attention on constitutional, political, economic, and social trends.

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HI 343 Civil War and Reconstruction

3c-01-3sh

Study of the failure of American democracy to cope with issues of mid-nineteenth century, followed by political, economic, military, and social developments during war and reconciliation of North and South.

HI 344 The Age of Big Business in America, 1877-1917

3c-01-3sh

Examines how big business developed in America, how the economic change reshaped society, and how the reshaped society responded politically.

HI 345 The Age of Ragtime: American History, 1900-1929

3c-01-3sh

Using the nation's cultural development as its thematic foundation, analyzes the transitional character of the Progressive Era, World War I, and the 1920s.

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HI 346 Recent United States History

3c-01-3sh

Study of political, economic, and cultural changes in American life since 1929; examines roots of social problems facing us today. Some recent foreign policy trends also studied.

HI 350 History of Latin America Colonial Period, 1450-1820

3c-01-3sh

Study of life of people, Indian cultures, conquest by Spaniards and Portuguese, government during Colonial Period, and Wars of Independence.

HI 351 History of Latin America: National Period, 1820-Present

3c-01-3sh

Study of the history of nations which have emerged since independence; emphasis on economic, political, cultural, and social developments of these nations, as well as relationships of these nations to others in the hemisphere.

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HI 355 African History I: Antiquity to 1600

3c-01-3sh

Prerequisites: Sophomore standing, completion of HI195 (nonmajors)

Survey of the sociocultural, political, and economic life of precolonial African societies. Focus is on ancient kingdoms and cultures, precolonial states, internal and Atlantic trade networks.

HI 356 African History II: 1600 to Present

3c-01-3sh

Prerequisites: Sophomore standing, completion of HI195 (nonmajors)

Survey of African sociocultural, political, and economic developments during the colonial and modern periods. Course covers imperialism, the struggle for control for Africa, the two global wars and their repercussions for Africa, decolonization, and modern African states.

HI 360 History of Pennsylvania

3c-01-3sh

Emphasizes the cultural, economic, political, and social development of our state in its various periods from colonial to today. Special attention given to diversity of Pennsylvania's people, their institutions and problems.

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HI 361 History of American Diplomacy, 1775-1900

3c-01-3sh

Traces foreign relations of the United States from Independence to emergence as a world power. Topics concentrate on themes of commercial relations, political isolation, expansion, and debate over imperialism.

HI 362 History of American Diplomacy, 1900-present

3c-01-3sh

Treats primarily our twentieth-century involvement in world affairs and domestic debate over that involvement. Special emphasis will be placed on the role of interest groups and increasing power of Executive Department over foreign affairs.

HI 363 Thought and Culture in Early America

3c-01-3sh

Selected topics in early American intellectual and cultural growth, with emphasis on Puritanism, Enlightenment, cultural nationalism, and Romantic movement.

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HI 364 Thought and Culture in Modern America

3c-01-3sh

Selected treatment of historical development of modern American movements in social and political thought, religion, philosophy, fine arts, and literature.

HI 365 History of Black America Since Emancipation

3c-01-3sh

Description and analysis of the role of blacks in the history of the United States since the Civil War; emphasis on key leaders, major organizations, leading movements, and crucial ideologies of blacks in modern America.

HI 366 African-American Women

3c-01-3sh

Major economic, social, and political issues which have affected black women since their introduction into North America to the present.

HI 367 Native American History

3c-01-3sh

An unfamiliar perspective on a familiar tale. This course presents the "new Indian History"—North America from Native American materials and points of view. Identification, analysis, and synthesis of Indian realities and options over time are at the heart of this course.

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HI 369 Women in America

3c-01-3sh

A study of the activities of women from the colonial era to the modern era—evaluating cultural, societal, religious, economic, and political frameworks. Reviews women's involvement in movements for feminism, social reform, unionism, and the abolition of slavery.

HI 370 Religion in America

3c-0l-3sh

A history of religious belief and practice in the United States from the colonial period to the present, with an emphasis on the last one hundred years.

HI 372 History of the Early American Working Class

3c-0l-3sh

Description and analysis of the nature and significance of the working class of the United States in the eighteenth and nineteenth centuries. The work settings and communities of workers will be examined as well as unions such as the National Labor Union and the Knights of Labor.

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HI 373 History of the Modern American Working Class

3c-0l-3sh

Description and analysis of the nature and significance of the working class of the United States in the twentieth century. Work settings and strikes will be examined and analyzed as well as unions such as the United Mine Workers and the United Auto Workers and labor leaders including Samuel Gompers, John L. Lewis, and George Meany.

HI 374 History of Organized Crime

3c-0l-3sh

This course studies the relationship between urban, entrepreneurial crime and the evolution of industrial America.

HI 390 History of Women -- World Cultures

3c-0l-3sh

Explores religious, legal, political, economic, and mythic dimensions of women in society from ancient to modern times, including Western and non-Western experiences.

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HI 391 Film as History

3c-0l-3sh

Particularly concerned with probing the relationship between cinema and society. History of film is explored and student is given some background in film interpretation and cinematography, the western, science fiction, police films, and great foreign and American detective films.

HI 480 Senior Seminar

3c-0l-3sh

A regimen of research resulting in a written paper. Students work on a program selected by the instructor. For History majors or by instructor's permission.

HI 481 Special Studies in History

var-1-3sh

Prerequisite: As appropriate to course content

Each semester, courses are offered in interest areas that are not part of the regular program. Some examples of courses

of this type are the Victorian Age, the History of Love, World War II, the Great Depression, the Adams Chronicles, and the History of New York City. Students may schedule as many of these courses as desired, but two per semester is the usual limit.

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HI 482 Independent Study

var-3-6sh

Prerequisites: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office with 12sh in history; a 3.0 history average; permission of a faculty member. Approval is based on academic appropriateness and availability of resources

Involves directed reading or research for qualified students. Experimental projects and personalized learning are encouraged.

HI 483 Independent Study

3c-0l-3sh

An honors program within the independent study format. Minimum qualifications are a 3.0 QPA, 15sh of history, and a 3.2 average in history classes. Satisfactory honors work is rewarded by formal recognition at graduation.

HI 493 Internship

var-3-12sh

With departmental approval, students are attached to local or national government or private agencies doing directive, bibliographical, archival, or museum work. Advising professor meets with intern regularly and determines what papers or reports will be required.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Mathematics

Department of Mathematics
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MA100](#) [MA101](#) [MA110](#) [MA117](#) [MA121](#) [MA122](#) [MA123](#) [MA124](#) [MA127](#) [MA128](#) [MA151](#) [MA152](#) [MA171](#) [MA214](#)
[MA216](#) [MA217](#) [MA219](#) [MA227](#) [MA241](#) [MA271](#) [MA281](#) [MA317](#) [MA320](#) [MA342](#) [MA350](#) [MA353](#) [MA355](#) [MA363](#)
[MA364](#) [MA366](#) [MA371](#) [MA417](#) [MA418](#) [MA420](#) [MA421](#) [MA422](#) [MA423](#) [MA424](#) [MA425](#) [MA427](#) [MA445](#) [MA446](#)
[MA447](#) [MA451](#) [MA452](#) [MA453](#) [MA454](#) [MA456](#) [MA457](#) [MA458](#) [MA459](#) [MA460](#) [MA465](#) [MA471](#) [MA476](#) [MA477](#)
[MA481](#) [MA482](#) [MA490](#) [MA493](#)

MA 100 Intermediate Algebra

3c-0l-3sh

Note: A student may not take MA100 after successfully completing MA110 or a calculus course without the written approval of the mathematics department chairperson

A basic course in algebra including factoring, exponents and radicals, systems of linear equations, complex fractions, and inequalities. Designed for those students who lack the basic algebraic skills required in MA110 Elementary Functions. This course will not meet Liberal Studies math requirements. (Title was Basic Algebra prior to 1995-96.)

MA 101 Foundations of Mathematics

3c-0l-3sh

Introduces logic and mathematical way of analyzing problems; develops an appreciation for nature, breadth, and power of mathematics and its role in a technological society; and introduces useful mathematics or mathematics related to student interest. Possible topics include logic, problem solving, number theory, linear programming, probability, statistics, intuitive calculus, introduction to computers, mathematics of finance, game theory.

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MA 110 Elementary Functions

3c-0l-3sh

Note: A student may not take MA110: after successfully completing a calculus course without the written approval of the mathematics department chairperson.

For students not prepared to begin the study of calculus; topics include polynomial, exponential, logarithmic, and trigonometric functions.

MA 117 Principles of Mathematics

3c-0l-3sh

This course is an introduction to the nature of mathematics, designed specifically as a first course for mathematics education majors to experience several facets of mathematics including deduction, induction, problem solving, discrete mathematics, and theory of equations. Enrollment open to secondary mathematics education majors only.

MA 121 Calculus I for Business, Natural, and Social Sciences

4c-0l-4sh

Note: A student may not take MA121 after successfully completing another calculus course without the written permission of the mathematics department chairperson.

Prerequisite: MA110 or equivalent high school preparation

Introduces non-Math major to analytic geometry, elementary functions (including logarithmic and exponential functions), central ideas of the calculus (limit, derivative, and integral), applications of derivatives to business, social, and natural sciences.

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MA 122 Calculus II for Business, Natural, and Social Sciences

4c-0l-4sh

Applications of integrals to business, natural, and social sciences, functions of several variables, trigonometric functions, sequences and series, numerical methods, differential equations.

MA 123 Calculus I for Physics and Chemistry

4c-0l-4sh

Prerequisites: High school algebra, geometry, and trigonometry

Functions, limits, continuity, derivatives, application of the derivative, integral, and applications of the integral. (Trigonometric and inverse trigonometric functions are included throughout the course.)

MA 124 Calculus II for Physics and Chemistry

4c-0l-4sh

Logarithmic and exponential functions, techniques of integration, sequences and series, differential calculus of functions of several variables, multiple integrals, line integrals, surface integrals, differential equations with application to physical problems.

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MA 127 Calculus I

4c-0l-4sh

Prerequisite: Permission of the mathematics department

The first in a three-course series of courses which stresses the theory of the calculus as well as the application in problem solving. Topics to be included are real numbers, an introduction to analytic geometry, functions, limits and continuity, derivatives and applications, the differential and antidifferentiation.

MA 128 Calculus II

4c-0l-4sh

Prerequisite: Permission of the mathematics department

The second in a three-course series of courses stresses the theory of calculus as well as the application in problem solving. Topics to be included are definite integrals and applications, logarithmic and exponential functions, trigonometric and inverse trigonometric functions, polar coordinates, hyperbolic functions, indeterminate forms, improper integrals, and Taylor's formula.

MA 151 Elements of Mathematics I

3c-0l-3sh

Topics included are sets, concepts of logic, mathematical systems, systems of numeration, developing the set of integers, rational numbers, and real numbers.

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MA 152 Elements of Mathematics II

3c-0l-3sh

Prerequisite: MA151

Topics included are sentences in one variable, sentences in two variables, nonmetric geometry, metric geometry, coordinate geometry, introduction to statistics and probability, computers, and calculators.

MA 171 Introduction to Linear Algebra

3c-0l-3sh

Introduction to vector spaces, linear transformations, determinants, and matrix algebra. Topics are presented in a direct and intuitive approach.

MA 214 Probability and Statistics for Business Majors

3c-0l-3sh

Designed to introduce the study of probability theory, discrete random variables and probability distributions, empirical frequency distributions, theoretical frequency distributions, statistical investigations and sampling, and sampling distributions.

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MA 216 Probability and Statistics for Natural Sciences

4c-0l-4sh

Prerequisite: MA121

Frequency distributions, measures of central tendency and variation, probability, probability distributions, sampling distributions. Hypothesis testing for means, variances, proportions. Correlation and prediction, regression, analysis of variance, and nonparametric statistics. Emphasis on applications.

MA 217 Probability and Statistics

3c-0l-3sh

(For non-Math majors) Frequency distributions, measures of central tendency, variation, elementary probability, sampling, estimation, testing hypotheses, correlation, and regression; emphasis on applications as opposed to theoretical development of topics.

MA 219 Discrete Mathematics

3c-0l-3sh

Prerequisites: CO110, and MA 123, 127, or 122

Topics include set algebra, mappings, relations, semigroups, groups, directed and undirected graphs, Boolean algebra, and propositional logic, with examples and applications of these to various areas of computer science. Emphasis placed on developing an intuitive understanding of basic structures rather than formal theories and influence of these topics on theory and practice of computing.

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MA 227 Calculus III

4c-0l-4sh

Prerequisite: Permission of the mathematics department

The third in a three-course series of courses which stresses the theory of calculus as well as the application in problem solving. Topics to be included are vectors in the plane, parametric equations, vectors in three-dimensional space, solid analytic geometry, differential calculus of functions of several variables, directional derivatives, gradients, applications of partial derivatives, and infinite series.

MA 241 Differential Equations

3c-0l-3sh

Prerequisites: MA122, MA124, or MA227

Emphasis is placed on techniques of solution and elementary physical applications. A thorough study is made of differential equations classified as order one-degree one, linear, and nonhomogeneous. Solution techniques involving reduction of order techniques, the differential operator, and infinite series are introduced.

MA 271 Introduction to Algebraic Structures

3c-0l-3sh

Prerequisite: MA171

Gives student basic ideas of contemporary mathematics. Includes mathematical logic, algebra of sets, equivalence relations and partitions of sets, functions, and fundamentals of group theory. Methods of proof in area of abstract mathematics.

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MA 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

MA 317 Introduction to Probability and Statistics

3c-0l-3sh

Prerequisites: MA152, Elementary Education concentration

Introduces students to elementary concepts of probability and statistics which will enable them to analyze data, make predictions, and determine which concepts may be used with children.

MA 320 Mathematics for Early Childhood

3c-0l-3sh

Prerequisites: MA151, Early Childhood major

This course studies child-centered, activity-oriented mathematics programs for early childhood education. The course focuses on helping children develop understanding and insight into basic concepts of mathematics through the use of manipulative materials. Topics include pre-number activities, number activities, numeration, operations on whole numbers, estimation, rational numbers, geometry, measurement, probability, statistics, and problem solving. (Offered as MA450 prior to 1994)

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MA 342 Advanced Mathematics for Applications

4c-0l-4sh

Prerequisite: MA241

Deals with the application of mathematics to problems of science. Emphasis is placed on the three phases of such an application and on the development of skills necessary to carry out each step: (a) translation of the given physical information to a mathematical model; (b) treatment of the model by mathematical methods; (c) interpretation of the mathematical result in physical terms. Topics included are vector calculus, integral theorems, Fourier series, partial differential equations, and the Laplace transformation.

MA 350 History of Mathematics

2c-0l-2sh

Prerequisite: Completion of a calculus sequence or permission of the instructor
The history of mathematics is concerned with the origins, philosophy, and development of the mathematical sciences.

MA 353 Theory of Numbers

3c-0l-3sh

Prerequisite: MA271 with a C or better grade

Divisibility, congruences, primitive roots, number theoretic functions, diophantine equations, continued fractions, quadratic residues.

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MA 355 Foundations of Geometry I

3c-0l-3sh

Prerequisites: MA171, MA271 with a C or better grade

Studies various groups of transformations and geometries associated with these groups in the Euclidean plane. The Euclidean Similarity and affine and projective groups of transformations are studied.

MA 363 Mathematical Statistics I

3c-0l-3sh

Prerequisites: MA122, MA124, or MA227

Probability theory necessary for an understanding of mathematical statistics is developed. Applications of set theory to models, combinations and permutations, binomial, Poisson and normal distributions, expected values, and moment generating functions.

MA 364 Mathematical Statistics II

3c-0l-3sh

Prerequisite: MA363

Multivariate distributions, change of variable technique, chi-square distribution, estimation, confidence intervals, hypothesis testing, contingency tables, goodness of fit. Practical applications are used to aid in the development.

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MA 366 Preparation for Actuarial Examinations

1c-0l-1sh

Prerequisites: MA171 and calculus sequence

This course provides an introduction to the actuarial profession and helps the student prepare for the first actuarial examinations. The examination preparation consists of studying sample actuarial examinations and related material. The student is required to take the actuarial examination. The student should be aware that for most students, considerable study beyond the requirements of this one-credit course will be required in order to pass the actuarial examinations.

MA 371 Linear Algebra

3c-0l-3sh

Prerequisites: MA171, MA271 with a C or better grade

Vector spaces and linear transformations are studied in a theoretical setting. Also, canonical forms and multilinear algebra are studied.

MA 417 Statistical Applications

3c-0l-3sh

Prerequisites: MA214, MA216, or MA217 (For non-Math majors)

Using computer programs, a wide array of statistical procedures for educational research workers will be explored. Basic concepts of statistical inference and prediction will be reviewed, including regression analysis and prediction, hypothesis testing, analysis of variance and covariance, and partial and multiple correlation. Emphasis is on use of the computer and interpretation of computer printouts, along with understanding techniques employed. No computer knowledge is necessary.

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MA 418 Sampling Survey Theory and Its Application

3c-01-3sh

Prerequisites: (For non-Math majors) MA214, 216, or 217

Directed to the student who is or will be doing quantitative research, commissioning large-scale surveys, and evaluating the results. Sampling techniques and statistical principles underlying their use will be introduced. Consideration to the practical problems associated with implementation.

MA 420 Pre-Calculus Mathematics I

3c-01-3sh

Prerequisites: MA152; Elementary Education concentration

Examines the function concept as applied to elementary real number functions and graphing techniques for these functions. Topics include real number functions such as absolute value, step, linear, quadratic, and other polynomial functions, trigonometric and other periodic functions, exponential logarithmic functions, and all other inverse functions. Students will examine curricular materials that develop function concepts in Grades K-8.

MA 421 Advanced Calculus I

3c-01-3sh

Prerequisites: MA124 or MA227, MA271 with a C or better grade

Study of set theory, real number system, functions topology of Cartesian space, sequences, convergence and uniform convergence, continuity, and uniform continuity.

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MA 422 Advanced Calculus II

3c-01-3sh

Prerequisite: MA421

Includes the study of convergence sequences in \mathbb{R}^n , global properties of continuity, uniform continuity, differentiation of \mathbb{R}^n , Riemann integrals, and infinite series.

MA 423-424 Complex Variable I and II

each 3c-01-3sh

Prerequisite: MA124 or MA227

Introduction to the theory of functions of a complex variable: topics included are elementary functions, analytic functions, conformal mapping, integration, series, and application.

MA 425 Applied Mathematical Analysis I

3c-01-3sh

Prerequisites: Calculus sequence, introductory linear algebra, or permission of instructor

This course provides the necessary background for an understanding of mathematical programming, proofs of convergence of algorithms, convexity, and factorable functions. It also develops necessary concepts in matrix theory which are required to develop efficient algorithms to solve linear and nonlinear programming models.

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MA 427 Introduction to Topology

3c-0l-3sh

Prerequisite: MA271 with a C or better grade

Study of sets, functions, continuity, compactness, the separation axioms, and metric spaces; application of topology to analysis is demonstrated.

MA 445 Programming Models in Operations Research

3c-0l-3sh

Prerequisites: Two-semester sequence of calculus and MA 171 or permission of instructor

Development of deterministic mathematical models for managerial and social sciences with relevant computational techniques.

MA 446 Probabilistic Models in Operations Research

3c-0l-3sh

Prerequisites: Two-semester sequence of calculus, MA363

Development of probabilistic mathematical models for managerial and social sciences with relevant computational techniques.

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MA 447 Simulation Models

3c-0l-3sh

Prerequisites: Completion of the calculus sequence; background in statistics and probability, and familiarity with concepts of programming (knowledge of a particular programming language not required)

This course considers the types of models that are basic to any simulation and methods for building and using such models. It includes discrete and continuous system simulations, their applications, and an introduction to SLAM II (Simulation Language for Alternative Modeling).

MA 451 Numerical Methods for Supercomputers

3c-0l-3sh

Prerequisites: MA121 and MA122, or MA123 or MA127, MA171, CO250

Super computers make use of special computer architectures—vector and parallel processors—in order to achieve the fastest processing speed currently available. Students will be introduced to these features and will learn how numerical algorithms can be constructed to exploit supercomputers' capabilities. Students will gain practical experience in programming for the Cray, YMP, in incorporating existing scientific software packages into user-written programs, in submitting remote jobs to the Pittsburgh Supercomputer Center, and in producing animated graphical output to summarize the typically large volume of output data generated by large scientific programs. (Also offered as CO451; may not register for duplicate credit)

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MA 452 Seminar in Teaching Algebra

var-1-4sh

MA 453 Seminar in Teaching Geometry

var-1-4sh

MA 454 Seminar in Teaching General Mathematics

var-1-4sh

Seminars are designed for pre-student teacher. Students in each class will gain insights into the problems in teaching each topic and become aware of the materials available and methods of instruction geared to the special type of student. Education majors only.

MA 456 Principles of Geometry I

3c-01-3sh

Prerequisites: MA152, Elementary Education concentration

Students become acquainted with an informal, intuitive approach to geometry. Activities and materials for teaching geometrical concepts to children are an integral part of the course.

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MA 457 Introduction to Number Theory

3c-01-3sh

Prerequisites: MA152, Elementary Education concentration

Introduction to topics of elementary number theory including divisibility, prime numbers, factorization, modular arithmetic, problem solving, and place of number theory in the elementary school curriculum. Students will examine many number theory activities which can help to strengthen skills with basic facts in an interesting, nonroutine setting.

MA 458 Introduction to Logic and Logical Games

3c-01-3sh

Prerequisites: MA152, Elementary Education concentration

Introduction to some of the basic ideas, terminology, and notation of mathematical logic and Boolean algebra as well as games of strategy that involve logic. In addition, an investigation of how logic is taught and used in various programs for the elementary school.

MA 459 Computer-related Topics in the Elementary and Middle School

3c-01-3sh

Prerequisites: MA152, Elementary Education concentration

Provides teachers with concepts and techniques necessary to teach computer-related topics to children. Participants will work with elementary school children throughout the semester.

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MA 460 Computers and Calculators in Secondary School Mathematics Instruction

3c-01-3sh

Prerequisite: CO205

Students will explore how computers and calculators can be used as tools to enhance the instruction in secondary school mathematics.

MA 465 Topics in Statistics

3c-01-3sh

Prerequisite: MA364

Correlation and regression from applied and theoretical points of view, bivariate and multivariate normal distribution, analysis of variance, nonparametric methods. Practical problems involving statistical techniques and use of computer statistical packages. Knowledge of computer programming is not required.

MA 471 Basic Concepts of Algebra

3c-01-3sh

Prerequisites: MA152, Elementary Education concentration

Concepts of basic algebraic structures such as group, ring, integral domain, field, and vector space are studied within the context of the mathematical maturity of the student. Other topics include relations and functions, polynomials and polynomial equations, systems of equations, and inequalities. Consideration given to development of these concepts in the mathematics curriculum.

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MA 476 Abstract Algebra I

3c-0l-3sh

Prerequisites: MA171, MA271 with a C or better grade

Development of theory of integral domains, fields, rings, and groups; designed to develop student's power to think for himself or herself and to improve ability to construct formal proofs.

MA 477 Abstract Algebra II

3c-0l-3sh

Prerequisite: MA476

Designed to have student continue study of algebra by use of axiomatic method; Euclidean domains; polynomial domains and extension fields included; interrelationships between these structures and simpler structures, particularly groups and rings, are developed as in study of Galois group of a polynomial and in an introduction to Galois theory.

MA 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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MA 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

MA 490 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Positions with participating companies or agencies provide students with experience in mathematics-related work under the supervision of the agencies and faculty. Requirements include one to three on-site consultations, two university consultations, completion of progress reports, and presentation of final cumulative paper. Internship credit may not be used in fulfilling math major course requirements.

MA 493 Internship in Mathematics

var-3-12sh

Prerequisites: Completion of core curriculum, completion of application. Positions with participating companies or agencies provide students with experience in mathematics-related work under the supervision of the agencies and faculty. Requirements include one to three on-site consultations, two university consultations, completion of progress reports, and presentation of final cumulative paper. Internship credit may not be used in fulfilling math major course requirements.

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Business Education

Department of Office Systems and Business Education Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[BE101](#) [BE111](#) [BE131](#) [BE132](#) [BE134](#) [BE201](#) [BE250](#) [BE260](#) [BE261](#) [BE264](#) [BE273](#) [BE281](#) [BE311](#) [BE312](#) [BE481](#)
[BE482](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

BE 101 Microbased Computer Literacy

3c-0l-3sh

An introductory course designed to provide students with a fundamental understanding of computers. The course familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and data base management), and the social and ethical aspects of the impact of computers on society.

Note: This course is cross-listed as CO101 and IM101. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

BE 111 Foundations of Business Mathematics

3c-0l-3sh

Develops an understanding of numbers and knowledge of fundamental concepts in arithmetic and algebra in the solution of common and advanced problems encountered in business by the businessperson and consumer. Topics illustrating and emphasizing the application of business mathematics include methods used to compute interest discount, partial payments, discounting of notes and drafts, depreciation, amortization, sinking fund redemptions, effective rate of interest, and preparation of statistical data.

BE 131 Keyboarding and Document Formatting

3c-0l-2sh

Emphasis on development of correct techniques in typewriting, introduction to basic styles of business letters, simple tabulations, and simple manuscripts; specific standards of speed and accuracy are required.

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BE 132 Computer Keyboarding and Formatting

3c-0l-3sh

Prerequisite: BE131 or by exam

Emphasis on the development of speed, accuracy, and production ability; includes use of microcomputers, business letters with special features, business reports, business forms, rough drafts, and manuscripts.

BE 134 Keyboarding

1c-01-1sh

Exception: This course is open to students in all colleges without restriction.

A class designed to provide students with the fundamental skills to keyboard information quickly and accurately in fourteen one-hour sessions. It is intended for the student who does not require the additional skills included in keyboarding and document formatting, such as letter formats, manuscript typing, and tabulation. Recommended for students in computer science, journalism, management information systems, criminology, etc.

BE 201 Internet and Multimedia

3c-01-3sh

Prerequisite: BE/CM/CO/IM 101 or prior exposure to word processing and electronic mail

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BE/CM/CO/IM/LB 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

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BE 250 Electronic Office Procedures

3c-01-3sh

Prerequisite: BE131 or equivalent

A study of the theory and practice of the systems in an electronic office: records management, office environment, communication transmittal systems, reprographics, and office procedures. May not be used as a substitute for BE264.

BE 260 Alphabetic Shorthand Theory

3c-01-3sh

Basic principles of alphabetic shorthand with emphasis on mastery of shorthand theory, punctuation, grammar, and spelling. New matter dictation will be introduced during the last few weeks of class. The alphabetic system taught will vary. (Offered only on an occasional basis)

BE 261 Shorthand Theory

3c-01-3sh

An introductory course in the basic principles of Gregg Shorthand, Centennial Edition. (Offered only on an occasional basis)

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BE 264 Office Procedures

3c-01-3sh

Prerequisite: BE131 or equivalent

Advanced study of theory and practice in activities common to office records management; handling of mail; telephone and telegraph services; receiving callers; writing reports; dictation and transcription equipment; bank, financial, and legal transactions; shipping and receiving services; reference books; etc.

BE 273 Word Processing Applications

3c-01-3sh

Prerequisite: BE131 or equivalent

In this course students will develop a high degree of proficiency in the use of word processors. Emphasis is on

machine operations and production skills in formatting, text editing, and understanding word processing concepts. May not be used as a substitute for BE/CO/IM101.

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BE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

BE 311 Methods and Evaluation in Business and Marketing Education I

3c-0l-3sh

Prerequisites: PC101, EP202, and completion of the freshman and sophomore courses in the student's major areas. Includes general methods of teaching and evaluation plus methods and evaluation in basic business courses. Unit plans, lesson plans, and unit tests are emphasized. Techniques and procedures of teaching and classroom management are studied. Includes units in vocational education such as advisory committees, adult education, and federal legislation for funding.

BE 312 Methods and Evaluation in Business Education II

var-1-3sh

Prerequisite: BE311

Covers three sections of special methods and evaluation in office technologies: secretarial, accounting, and data processing. Objectives, planning, evaluating, and skill building are studied. Media and facilities for instruction are examined. Students elect sections needed for certification.

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BE 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

BE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Study Abroad and Comparative Literature (Foreign Language)

College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FL100](#) [FL121](#) [FL391](#) [FL392](#) [FL393](#) [FL394](#) [FL395](#) [FL396](#) [FL421](#) [FL482](#)

FL 100 Study Abroad

var-1-12sh

Registration mechanism and limited credit arrangement as provided in preapproval process for Study Abroad programs coordinated through the Center for International Studies.

FL 121 Humanities Literature

3c-0l-3sh

Introduces the student to works, authors, and genres of general literary significance in the Western tradition. Not organized historically but trains the student in the critical reading and appreciation of literature from the present and other periods. Authors, works, and themes are studied with respect to cultural context, aesthetic form, and thematic significance. Taught in English. Substitutes for EN121.

FL 391 Selected Works from the Medieval Period

3c-0l-3sh

Prerequisites: EN/FL121 or EN122, EN202

Comparative study of selected works of major importance per se and as representative of major themes of medieval European literature. Also listed as EN391.

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FL 392 Renaissance/Baroque/Classical

3c-0l-3sh

Prerequisites: EN/FL121 or EN122, EN202

Literary works representing various genres from both periods are studied and compared for their themes, motifs, and stylistic features, applying principles set forth in H. Wolffin's *Renaissance and Baroque*.

FL 393 Romanticism

3c-0l-3sh

Prerequisites: EN/FL121 or EN122, EN202

Study of the principal authors and works of late eighteenth- and early nineteenth-century Europe and the unique national characteristics of the Romantic movement in lyric, drama, and prose. Also listed as EN393.

FL 394 Nineteenth-Century European Novel in Translation

3c-01-3sh

Prerequisites: EN/FL121 or EN122, EN202

A survey of major nineteenth-century European novels in translation (excluding English), emphasizing the rise of realism and naturalism and the cultural, historical, social, and artistic relationships between the various national literatures. Also listed as EN394.

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FL 395 Selected Writers from 20th-Century Europe

3c-01-3sh

Prerequisites: EN/FL121 or EN122, EN202

Comparative study of selected works of major importance per se or as representatives of major trends in twentieth-century literature. Also listed as EN395.

FL 396 The Literature of Emerging Nations

3c-01-3sh

Prerequisites: EN/FL121 or EN122, EN202

A comparative study of a selection of literature written in major European languages but originating in the nations of the developing world. Works will be mainly prose fiction (although essay, theater, and poetry may be included) and reflect a diversity of geographical, cultural, and prior colonial circumstances. Also listed as EN396.

FL 421 Language and Society

3c-01-3sh

Considers salient facts of language and its role in society and culture. Language families, linguistic change, and reciprocal influences of culture and language are presented.

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FL 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Philosophy

Department of Philosophy and Religious Studies
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[PH101](#) [PH120](#) [PH221](#) [PH222](#) [PH223](#) [PH232](#) [PH281](#) [PH321](#) [PH323](#) [PH324](#) [PH325](#) [PH326](#) [PH330](#) [PH400](#) [PH405](#)
[PH410](#) [PH420](#) [PH421](#) [PH450](#) [PH460](#) [PH481](#) [PH482](#) [PH482](#) [PH493](#)

PH 101 Informal Logic: Methods of Critical Thinking

3c-0l-3sh

Designed to develop students' ability to analyze critically deductive and inductive argumentation, rhetoric, and persuasion, by examples drawn from media, textbooks, advertising, scholarly works, personal contacts, etc.

PH 120 Introduction to Philosophy

3c-0l-3sh

Designed to acquaint the beginning student with philosophical problems and methods in such areas as metaphysics, epistemology, logic, and value theory.

PH 221 Symbolic Logic I

3c-0l-3sh

An introduction to fundamental concepts in deductive logic with an emphasis on teaching students the basis of clear logical thought. Some of the historical origins of logical theory are explored. Students learn to symbolize arguments in the truth-functional logic and the predicate logic. Ways of testing arguments for validity as well as proofs are covered, with a stressing of application to actual arguments drawn from numerous sources in the media, philosophical issues, and moral problems.

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PH 222 Ethics

3c-0l-3sh

An investigation of efforts to rationally justify moral judgment. Deals with fundamental issues such as: What is morality? Are moral notions cultural, rational, divine, or innate in origin? Are they relative or absolute? Are they freely chosen or determined by genetics and/or environment? Covers a variety of ethical theories significant both historically and contemporarily and applies those theories to current issues which involve moral dilemmas.

PH 223 Philosophy of Art

3c-0l-3sh

Investigates some of the major problems in the philosophy of art, e.g., the nature of beauty and the aesthetic experience, the ethics and politics of art, creativity, the nature of the work of art and aesthetic objects, the concept of fine art, and the evaluation of works of art and aesthetic objects.

PH 232 Philosophical Perspectives on Love, Marriage, and Divorce

3c-0l-3sh

Examines the philosophical foundations of contemporary Western institutions and ideologies of romantic love. Considers major positions in both the history of philosophy and contemporary philosophy. Investigates the concepts, problems, and philosophical theories central to understanding romantic love, marriage, and divorce.

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PH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

PH 321 Symbolic Logic II

3c-0l-3sh

Prerequisite: PH221 or permission of instructor

A continuation of Symbolic Logic I designed to enable students to evaluate consistency of statements, validity of arguments, soundness and completeness of formal systems. Focus on quantificational calculus and inductive logic.

PH 323 Political Philosophy

3c-0l-3sh

An inquiry into the philosophical concepts underlying the major political theories from ancient Greece to the modern era. Emphasis will be placed on major authors and texts to demonstrate a continuum of ideas and their modifications, replacement, and revival, as well as novel political ideas. Possible topics: commonality; peace; internationalism; sovereignty; nature of the state; law; the ruler; cosmopolitanism; nationalism; social contract; liberty; obligation; property; racism; sexism; slavery.

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PH 324 History of Philosophy I: Ancient and Medieval

3c-0l-3sh

Western philosophy of pre-Socratic, classical Greek, Roman, and medieval periods. Special attention given to Plato, Aristotle, Augustine, and Aquinas, as well as the philosophic schools.

PH 325 History of Philosophy II: Renaissance and Modern

3c-0l-3sh

Continuation of PH324, beginning with fifteenth-century Renaissance thought and ending with the nineteenth-century precursors of contemporary philosophies.

PH 326 Phenomenology and Existentialism

3c-0l-3sh

A study of the phenomenological method as developed by Edmund Husserl and of the subsequent phenomenological movement as exemplified in the works of such representative figures as Heidegger, Merleau-Ponty, and Paul Ricoeur and of existentialism both as an independent movement of thought and as influenced by phenomenology and exemplified in the works of such representative figures as Kierkegaard, Jaspers, Marcel, Buber, and Sartre.

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PH 330 Philosophy of Science

3c-0l-3sh

An investigation into the nature of formal and empirical sciences: structure of scientific thought and its dependence upon or independence of theory; the logical and metaphysical status of scientific laws and theoretical concepts; reductionism in science; the concept of causality; the logic of explanation; problems in confirmation theory; science and value. No special background required. Recommended for math and science majors.

PH 400 Ethics and Public Policy

3c-0l-3sh

An analysis of the ethical dimension of public policies. Provides a general understanding of ethical theories, then focuses on their application to specific policy issues. Topics will vary from semester to semester. See current schedule of classes.

PH 405 Justice and Human Rights

3c-0l-3sh

An introduction to theories of justice and an analysis of the concept of human rights which is central to a just society and to much moral, political, and legal dispute. This course will explore relevant major positions in the history of philosophy, but its major focus is contemporary and raises issues such as women's rights, black rights, animal and environmental rights, welfare rights, and rights to life (or death).

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PH 410 Contemporary Analytic Philosophy

3c-0l-3sh

Investigation of twentieth-century Western positions such as pragmatism, logical positivism, logical and linguistic analysis.

PH 420 Metaphysics

3c-0l-3sh

A study of the nature of reality in general and of the main categories through which it is understood. The main topic areas of metaphysics concern: the one and the many; the relation of thought and being; the problem of universals; nominalism; realism; idealism; the nature of being, substance, essence, space, time, eternity, matter, mind; determinism and indeterminism.

PH 421 Theory of Knowledge

3c-0l-3sh

Investigation into problems involved in knowledge and justification and a consideration of methods suggested for their resolution. Particular attention is paid to issues such as knowledge, justification, certainty, objectivity, perception, and truth.

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PH 450 Philosophy of Law

3c-0l-3sh

An examination of the nature of law and its relationship to such questions as morality, obligation, judicial review, justice, rights, punishment, liberty. The course combines philosophical theory with consideration of selected court cases to develop a philosophical and legal understanding of law and its place in society.

PH 460 Philosophy of Language

3c-0l-3sh

An investigation of issues in the philosophy of language and related issues in linguistics (including anthropological

linguistics, sociolinguistics, and psycholinguistics). Topics include, for example, the influence of language on perception, rationalist/empiricist perspectives on language acquisition, language and political control, reference, meaning, and truth.

PH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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PH 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. May be taken more than once to a maximum of 6sh. (This option is available to both philosophy majors and nonmajors.)

PH 482 Independent Study: Honors Project

3c-01-3sh

Prerequisites: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. 3.00 QPA, 15sh in Philosophy, and 3.20 average in departmental courses

Majors in Philosophy are invited to take 3sh of independent study designated Honors Project. Upon satisfactory completion, graduation with departmental honors is possible.

PH 493 Internship in Philosophy

var-3-6sh

Prerequisites: Permission of the department, junior or senior PH major or double major, 2.5 QPA

A supervised experience of no longer than one semester and no less than five weeks. This would take place in either a public or private organization in areas that either extend and develop or complement coursework in Philosophy. Log and/or major paper required. Internships are to be done with a clear analysis, argumentation, and examination of governing principles.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Religious Studies

Department of Philosophy and Religious Studies
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[RS100](#) [RS110](#) [RS200](#) [RS210](#) [RS250](#) [RS260](#) [RS281](#) [RS290](#) [RS311](#) [RS312](#) [RS329](#) [RS360](#) [RS365](#) [RS370](#) [RS375](#) [RS380](#)
[RS410](#) [RS440](#) [RS481](#) [RS482](#) [RS493](#)

RS 100 Introduction to Religion

3c-0l-3sh

An introduction to the academic study of religion through an examination of various dimensions of religious expression and traditions. The course will cover such areas as problems about definition of religion; approaches to the study of religion; the goals, language, and rituals of religion; cases of religious experience; faith, disbelief, and alternatives to religion; religion and the sociocultural context.

RS 110 World Religions

3c-0l-3sh

A comparative study of the history, teaching, and rituals of the major religions of the world and their influence on contemporary society. A nonsectarian approach to religions such as Native American religion, Afro-American religion, Judaism, Christianity, and Islam in relationship to Hinduism, Buddhism, Confucianism, Taoism, and Shinto.

RS 200 Religion and Culture: Their Interaction

3c-0l-3sh

A systematic study of the interaction of religions and various components of culture, as a way of understanding the phenomenon of religion. The approach is functional and descriptive; it uses case studies which are chronologically and culturally diverse, covering such areas as religion and politics, economics, arts, science, and literature.

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RS 210 World Scriptures

3c-0l-3sh

Major sacred writings of Hindu, Buddhist, Zoroastrian, Moslem, Confucian, Taoist, and Judeo-Christian traditions will be studied from point of view of their religious significance.

RS 250 Understanding the Bible

3c-0l-3sh

An introduction to scholarly methods and major themes necessary to understand the Hebrew Scriptures and the New Testaments of the Judeo-Christian tradition.

RS 260 American Religious Development

3c-0l-3sh

A survey and analysis of topics which depict the role of religion in the U.S., e.g., American Indian religion; religion and the discovery/colonization/immigration trends of the U.S.; religion and the Constitution; indigenous religious movements; black religion; ecumenism; atheism; cults; mass media and religion; religion in Indiana County.

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RS 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

RS 290 Christianity

3c-0l-3sh

A study of the beliefs, practices, significant persons, history, and cultural impact of Christianity.

RS 311 Eastern Philosophy

3c-0l-3sh

An examination and critique of the philosophies which have shaped Eastern world views and ways of life as found in a representative sampling of Chinese, Japanese, and Indian thought.

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RS 312 Archaeology and the Bible

3c-0l-3sh

An investigation of religious-historical traditions of the Bible in light of archaeological research. Will include study of archaeological method and interpretation, discoveries in Egypt, Mesopotamia, and Syro-Palestine as background for understanding the traditions and religious practices and beliefs of Israel, and special questions surrounding the Patriarchal narratives, the Exodus and Conquest, Israel under David and Solomon, the Dead Sea Scrolls, and New Testament times.

RS 329 Philosophy of Religion

3c-0l-3sh

This course is a philosophical critical examination of religion to include: the nature of religion; religious argumentation; existence and nature of God; meaning and relation of faith and knowledge; theories of origin or religion. (Offered as PH329 prior to 1995-96)

RS 360 African Religions

3c-0l-3sh

An examination of the nature of African traditional religion and how traditional religion, Islam, and Christianity coexist and influence each other.

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RS 365 Native North American Religions

3c-0l-3sh

An introduction to the indigenous religions of North America and to the peoples who practice these rich and varied approaches to the sacred. This course not only examines major religious themes and dimensions (myth, ritual, ethics, etc.) but includes an historical perspective on North American Indian lifeways. This perspective involves discussion of the clash with Euro-American values and contemporary native religious responses to social crisis and change.

RS 370 Religions of China and Japan

3c-0l-3sh

A study of Confucianism, Taoism, Buddhism, Shinto, and popular religion in China and Japan, including historical and theological foundations, development of thought, contemporary expressions, and encounters with the modern world.

RS 375 Religions of India

3c-0l-3sh

A study of Hinduism, Indian Buddhism, Jainism, and Sikhism, including historical and theological foundations, development of thought, contemporary expressions, and encounters with the modern world.

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RS 380 Islam

3c-0l-3sh

A study of Islam including historical and theological foundations, developments of thought, contemporary expressions, and encounters with the modern world.

RS 410 History of Christian Thought I

3c-0l-3sh

The development of Christian thought approached through an in-depth study of selected writings from the early Church Fathers to the Protestant Reformers.

RS 440 Modern Christian Thought

3c-0l-3sh

An examination of Christian thought, approached through in-depth study of selected writings from major theologians of the nineteenth and twentieth centuries.

RS 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

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RS 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office
Individual students wishing to pursue religious studies interests not covered in the department's regular offering may do so by approval. Upon approval students are guaranteed at least five hours of faculty time per credit. All programs of study must be accepted by the department as a whole. May be taken more than once to maximum of 6sh. (This option is available to both Religious Studies majors and nonmajors.)

RS 482 Independent Study: Honors

3c-0l-3sh

Prerequisites: 3.00 QPA, 15sh in Religious Studies, and 3.20 average in departmental courses

Majors in Religious Studies are invited to take 3sh of independent study-designated Honors Project. Upon satisfactory completion, graduation with departmental honors is possible.

RS 493 Internship in Religious Studies

6-12sh

Prerequisites: Junior or senior; Religious Studies major or double major; 2.5 QPA in major; department approval
Supervised experience in a public or private organization which extends and complements coursework in Religious Studies.

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Art History

Department of Art
College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[AH101](#) [AH205](#) [AH206](#) [AH211](#) [AH222](#) [AH281](#) [AH300](#) [AH407](#) [AH408](#) [AH409](#) [AH412](#) [AH413](#) [AH416](#) [AH481](#)
[AH482](#)

AH 101 Introduction to Art

3c-0l-3sh

Designed to introduce the student to the significance of art as related to contemporary living and our historical heritage.

AH 205 Ancient to Medieval Art

3c-0l-3sh

Study of art from prehistoric times to the Middle Ages. Man's artistic development is seen in relation to political, social, economic, and religious events. Course was offered as AH115 prior to Summer, 1990.

AH 206 Renaissance to Baroque Art

3c-0l-3sh

Study of art from the Renaissance to the Baroque in light of the historical events which affect man's artistic impulses and development. Course was offered as AH116 prior to Summer, 1990.

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AH 211 Modern Art

3c-0l-3sh

A survey of the revolutionary movements which began about 1850; concludes with trends in contemporary arts.

AH 222 Art in America

3c-0l-3sh

Surveys American art and its relation to the development of American ideas and ideals.

AH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

AH300 Native American Art

3c-0l-3sh

Prerequisites: AH101, junior standing, or permission

A survey of the broad forms of visual arts and crafts that reflects the lifeways of Native Americans from paleo-indian origins to A.D. 1900. (pending Council of Trustees approval)

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AH 407 Medieval Art

3c-0l-3sh

Art and architecture of Europe during the Middle Ages, beginning with early Christian and Byzantine and concluding with the Gothic period. Dual listed for graduate credit as AH507.

AH 408 Italian Renaissance Art

3c-0l-3sh

Italian art from 1400s through 1650 and Mannerist movement. Special attention paid to great masters of the period. Dual listed for graduate credit as AH508.

AH 409 Baroque and Rococo Art

3c-0l-3sh

A general survey of art from 1575-1775, will include architecture, sculpture, painting, and other arts. Dual listed for graduate credit as AH509.

AH 412 Classical Art

3c-0l-3sh

Historical survey of the architecture, painting, sculpture, and minor arts of the classical period of Greece and Rome, including the Minoan, Mycenaean, and Etruscan cultures.

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AH 413 Senior Seminar

3c-0l-3sh

Intended to help students develop adequate vocabularies and methods to be used in discussion and criticism of works of art.

AH 416 Northern Renaissance Art

3c-0l-3sh

Explores phenomena of art north of the Alps from 1400 to 1600, especially as it appears in the Lowlands, as well as side explorations into art of France, Germany, Austria, and the court at Prague.

AH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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AH 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Music History

Department of Music
College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MH101](#) [MH103](#) [MH281](#) [MH301](#) [MH302](#) [MH322](#) [MH323](#) [MH324](#) [MH325](#) [MH420](#) [MH421](#) [MH481](#) [MH482](#)

MH 101 Introduction to Music

3c-0l-3sh

Course presumes no technical background but does utilize the varied musical experiences of each individual to help extend interest as far as possible. Attendance at various concerts of university organizations, cultural life events, and visiting artist concerts is required to augment listening experiences of students. Offered as MU101 prior to Summer, 1989.

MH 103 Perspectives in Jazz

3c-0l-3sh

Designed to give an overview of the development and contributions of jazz in the American culture and provide a background for a more intensive and detailed study of jazz for the Jazz Studies major. Offered as MU103 prior to Fall, 1989.

MH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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MH 301 Music History I

3c-0l-3sh

Prerequisites: HI195, EN101, EN202, HI305 Intensive study of the history and style of Medieval, Renaissance, and Baroque music. Considerable analytical listening required.

MH 302 Music History II

3c-0l-3sh

Prerequisites: MH301 or permission

Intensive study of the history and styles of Classical, Romantic, and twentieth-century music to 1950. Considerable analytical listening required.

MH 322 Medieval and Renaissance Music

3c-0l-3sh

Intensive study of the plainchant foundations in the early Middle Ages; the origins of polyphony; sacred and secular music of the thirteenth to the sixteenth centuries; special emphasis on Dufay, Josquin, Palestrina, and their contemporaries. (Offered as MU322 prior to Fall, 1989. Title prior to Fall, 1992, was Renaissance Music.)

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MH 323 The Baroque Era

3c-0l-3sh

Prerequisites: MH301, 302

Extends from Monteverdi through Bach and Handel and considers vocal and instrumental forms, styles, and practices of era.

MH 324 The Classical Era

3c-0l-3sh

Prerequisites: MH301, 302

A survey of music from about 1725 to about 1827, with special attention to the music of Mozart and Haydn. Consideration is given also to the works of D. Scarlatti and C.P.E. Bach. (Titled as Eighteenth Century Music prior to Fall, 1992)

MH 325 The Romantic Era

3c-0l-3sh

A survey of music from about 1800 to 1910, with attention directed to the earlier romantic composers such as Beethoven, Schubert, Mendelssohn, and Berlioz through the later romantic composers such as Wagner, Tchaikowsky, Mahler, and Dvorak as well as others. (Titled as The Early Romantic Period prior to Fall, 1992)

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MH 420 The 20th Century

3c-0l-3sh

Prerequisites: MH301, 302

A survey of the stylistic trends of music from 1900 to the present, beginning with Debussy, Ravel, and other impressionists through the music of Schonberg, Stravinsky, Webern, Honegger, and Milhaud. Offered infrequently. (Titled as Contemporary Music prior to Fall, 1992.)

MH 421 American Music

3c-0l-3sh

Prerequisites: MH301, 302

A study of history and literature of music in America from 1600 to the present day. Offered as MU421 prior to Fall, 1989.

MH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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MH 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Theater

Department of Theater
College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[TH101](#) [TH102](#) [TH110](#) [TH116](#) [TH120](#) [TH122](#) [TH130](#) [TH131](#) [TH150](#) [TH201](#) [TH202](#) [TH220](#) [TH221](#) [TH223](#) [TH240](#)
[TH250](#) [TH260](#) [TH270](#) [TH280](#) [TH281](#) [TH290](#) [TH301](#) [TH302](#) [TH310](#) [TH320](#) [TH321](#) [TH322](#) [TH323](#) [TH340](#) [TH341](#)
[TH342](#) [TH345](#) [TH347](#) [TH350](#) [TH351](#) [TH353](#) [TH481](#) [TH482](#) [TH483](#) [TH484](#) [TH485](#) [TH486](#) [TH489](#) [TH493](#)

TH 101 Introduction to Theater

3c-0l-3sh

An exploration of the theater arts, examining major periods of theater history, selected works of dramatic literature, and the primary theater arts of acting, directing, design, and technical theater. Class experience includes the analysis of at least two major works of drama, attending two live productions, and viewing of selected televised plays and musicals.

TH 102 Introduction to Dance

3c-0l-3sh

Examines dance as a performing art in both the historical and cultural contexts. Also includes the analysis of a major piece of choreography, attending live performances, and viewing select works of dance. No previous dance experience is required.

TH 110 Script Analysis

3c-0l-3sh

Course examines major as well as alternative systems by which dramatic texts may be analyzed, including classical plot construction, scene structure, tension and release, dramatic rhythms, and several contemporary and less conventional methods of dramatic orchestration.

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TH 116 Fundamentals of Theatrical Design

3c-0l-3sh

Introduces the fundamentals of scene, costume, lighting, and sound design for theater and dance. It is focused on creative processes used by designers to make choices. Topics include script analysis, director and designer communication, and the integration of the design elements into a unified production.

TH 120 Stagecraft I

3c-0l-3sh

Exploration of the material, methods, and procedures utilized in creating a scenic environment. Through instruction and practical application, students learn the basis of scenic construction and develop competency with the basic materials and equipment used in a theatrical scene shop.

TH 122 Costume Workshop

3c-01-3sh

Instruction and practical experience in the process of building costumes for the stage. Activities include fitting, cutting, sewing, dyeing, and painting. There is also instruction in the maintenance of wardrobe, costume stock, materials, and properties.

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TH 130 Stage Voice

3c-01-3sh

Prerequisite: Theater majors only, or by permission of instructor

Instruction in basic development of the vocal instrument of the actor in stage performance. Emphasis is placed upon the resonance, quality, pitch, and projection of the voice while improving the student's ability to articulate.

TH 131 Stage Movement

3c-01-3sh

Instruction in basic stage movement and the physicalization of character. Includes work in character development through variety in movement, introductory work in juggling, stage combat, and mime, and the assessment, awareness, and correction of individual movement problems.

TH 150 Fundamentals of Dance

3c-01-3sh

A basic dance technique that sequentially develops the elements of movement (space, time, force) into a variety of dance genre and period styles. Covers special care and safety of the instrument—the body.

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TH 201 Theater History I

3c-01-3sh

A comprehensive survey of the history, trends, and developments of theater and drama from their beginnings through the English Renaissance.

TH 202 Theater History II

3c-01-3sh

Comprehensive survey of the history, trends, and developments of theater and drama from the English Restoration to the present.

TH 220 Stagecraft II

3c-01-3sh

Prerequisite: TH120 or permission

Advanced exploration of materials, methods, and procedures involved in creating a scenic environment. Students also receive intensive practical experience in shop planning and supervision to include problem-solving techniques.

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TH 221 Basic Stage Lighting

3c-01-3sh

Prerequisite: TH120

Introduction to lighting instruments, color media, control boards, physical laws of electricity and optics, graphics, and conventional techniques used in lighting theatrical productions.

TH 223 Makeup for the Stage

3c-01-3sh

Deals with practical application of straight and character makeup and may include instruction in creating beards, wigs, prosthetics, and masks.

TH 240 Acting I

3c-01-3sh

Study of the primary elements of the Stanislavski system of character development. Includes text analysis and the development of physical action through a character's subtext, as well as motivational and improvisational techniques.

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TH 250 Contemporary Dance

3c-01-3sh

Study of the primary elements of the Stanislavski system of character development. Includes text analysis and the development of physical action through a character's subtext, as well as motivational and improvisational techniques.

TH 260 Jazz Dance

3c-01-3sh

Jazz techniques, dynamics, and style for theater dance from the 1920s through the present. Emphasis on analysis of music for choreography.

TH 270 Ballroom and Tap Dance

3c-01-3sh

A sequential development of tap and ballroom dance techniques in the context of historical development and period styles. Performance for an audience is required.

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TH 280 Ballet

3c-01-3sh

Sequential development of barre and center techniques that progress to linking moves, turning, and jumps, to dance sequences and choreography. The historical periods of development and the status of the art today will be examined in a cultural context which includes gender and minority influences.

TH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

TH 290 Ethnic Dance

3c-01-3sh

Includes dance techniques from a variety of indigenous forms from Western and Eastern cultures. Presented in the historical and social context. Emphasis will be given to the needs of theater production.

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TH 301 Tragic Mask

3c-01-3sh

Historical survey of theatrical conventions, traditions, and production practices specifically associated with tragedy and its ensuing forms: drama and melodrama. It focuses on landmark dramatic texts, examining the changing faces of tragic masks and their implications for theatrical practice from ancient Greece to the twentieth century.

TH 302 Comic Mask

3c-01-3sh

Historical survey of theatrical conventions, traditions, and production practices specifically associated with comedy and its related forms: farce, burlesque, etc. Focuses on landmark dramatic texts, examining the changing faces of comic masks and their conventions, and their implications for theatrical practice from ancient Greece to the twentieth century.

TH 310 Theater Criticism

3c-01-3sh

A study of the theory of criticism and of the discrete functions of critic and reviewer. Students see live performances and practice writing both reviews and criticism.

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TH 320 Scene Design

3c-01-3sh

Prerequisite: TH120

An introduction to the principles of scenic composition, analysis, concept development, and graphic communication methods used by the scenographer.

TH 321 Stage Lighting Design

3c-01-3sh

Prerequisite: TH221

Covers the design and execution of stage lighting with emphasis on script analysis, the collaborative role of the lighting designer, lighting theory, and modern stage lighting practices. Practical applications include the conceptualization and designing of production lighting for Proscenium, Thrust, and Arena stages through class exercises.

TH 322 Costume Design

3c-01-3sh

Covers design and execution of stage costumes with emphasis on showing how mood and illusion can be created through the proper selection of style, color, and texture, supplemented by an overview of stage costuming.

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TH 323 Sound Design

3c-01-3sh

Covers the basic principles and theories of designing sound for the theater. Through demonstration and practical application, the course will cover the following principal areas: basic electronics, recording techniques and equipment, musical and effects integration, theater acoustics, designing sound, and sound reinforcement.

TH 340 Acting II

3c-01-3sh

Prerequisites: TH240 or permission of instructor

Study of the evolving Stanislavsky system and its American reinterpretations as applied to realism and other dramatic

genres and styles. Emphasis will be on scoring of text, exploring the relationships between psychological states and physical action.

TH 341 Acting Styles

3c-0l-3sh

Prerequisite: TH130, TH131, TH240 or permission of instructor

Study and practice of advanced acting skills with special emphasis on style and period. Possible areas of focus: Greek classical, Commedia Dell'Arte (farce), French Neo-classical, Restoration Comedy, Melodrama, High Comedy (Wilde/Coward), or Theater of the Absurd.

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TH 342 Acting Shakespeare

3c-0l-3sh

Prerequisites: TH240, TH340 (or permission of instructor)

An advanced acting studio which will prepare students to perform in Shakespeare's plays. This course will provide a background overview of the Elizabethan period in addition to various methods towards approaching the movement, language, and verse forms from an actor's point of view.

TH 345 Touring Young People's Theater

3c-0l-3sh

This course introduces the fundamentals of young people's theater for audiences aged five through fifteen years. The class will select appropriate children's literature, develop a script through improvisation, and rehearse and tour their production to the surrounding schools.

TH 347 Playwriting

3c-0l-3sh

Prerequisite: TH110, or permission of professor

This course is a practical exploration of the craft and process of playwriting. The primary focus of the course is the practical, "hands-on" experiences approximating the "developmental process" currently in use in the American theater. The student will be guided from the initial concept through synopsis, outlines, working drafts, and culminating in the student's completion of an original one-act play and a "staged reading" of this project.

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TH 350 Directing

3c-0l-3sh

Prerequisites: TH110, TH240, permission

Introduction to basic directing skills: casting, floor plans, blocking, rehearsal procedures, and the applications of scene and character analysis. Students will prepare short scenes for class presentation.

TH 351 Choreography

3c-0l-3sh

Prerequisite: must have taken one of the introductory or advanced-level dance classes (TH150, 250, 260, 270, 280, 485) or permission of instructor

This course introduces the necessary choreographic tools needed to manipulate dance as a medium to create dance works. The class will learn and use various approaches to the choreographic process to create dance works, one of which will be presented in a public showing at the end of the semester.

TH 353 Dance Curriculum and Instruction

3c-01-3sh

Prerequisites: One of the following theater courses: TH 250, 260, 270, 280, 290, or 485; or permission of the instructor

This course introduces the necessary teaching skills and curriculum development needed to understand the pedagogical structure for teaching dance. The class will learn the approaches to teaching that are unique to dance and will learn how to design dance curriculum.

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TH 481 Special Topics

var-1-6sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

TH 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office

Independent study in theater may be either purely academic or may be a practical production project, supported by a written document giving evidence of significant scholarly investigation or original, creative effort. May be repeated to a maximum of 6 credits. Approval is based on academic appropriateness and availability of resources.

TH 483 Acting Studio

3c-21-3sh

Prerequisites: Minimum of TH240, by permission; individual foci have additional prerequisites

Advanced studio course offering scene practice with faculty direction, coaching, and criticism. Specific focus of scene work varies from semester to semester, including improvisation techniques, stage dialects, audition techniques, and acting for the camera as alternating semester options. May be repeated with a different focus each time.

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TH 484 Directing Studio

3c-21-3sh

Prerequisites: TH350, permission

Opportunity for students to direct scene work, one-act plays, or larger projects, according to individual levels of experience, preparation, and readiness. Practical application of principles of directing to specific problems in directing. Student projects performed in public, open-class recitals. May be repeated.

TH 485 Dance Studio

3c-01-3sh

Prerequisites: TH250, TH260, TH270, or TH280 (beginning technique class taken must be the specific dance genre of the Dance Studio class offered); or by permission of instructor

Further the development of the dancer at the intermediate level of a specified genre of dance. Development in dance requires the integration of both technique and artistic development. The specific genres vary from semester to semester, including modern, ballet, tap, and jazz as alternating semester options. May be repeated with a different focus each time.

TH 486 Practicum in Production

var-.5-4sh

Prerequisite: Permission

An opportunity with academic credit for students to make significant contributions to campus productions augmenting theater coursework in the areas of assistant directing or directing, stage management, technical direction, sound design, lighting, scene design, properties and set decoration, scene building and painting, costuming, dance, and make-up design. May be repeated.

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TH 489 Technical Theater Problems

3c-0l-3sh

Prerequisite: Permission of instructor

Open to all students desiring instruction in a variety of technical theater areas not presently covered in other courses. Topics to include sound design, stage management, set props, media make-up, technical drawing/mixed media, and scene painting. May be repeated.

TH 493 Internship

var-3-12sh

Prerequisite: Permission of instructor

Opportunities for students to gain experience with professional performance organizations in areas related to theater and dance.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Biology

Department of Biology
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[BI103](#) [BI104](#) [BI105](#) [BI110](#) [BI111](#) [BI112](#) [BI114](#) [BI115](#) [BI120](#) [BI150](#) [BI151](#) [BI155](#) [BI210](#) [BI220](#) [BI232](#) [BI241](#) [BI250](#)
[BI251](#) [BI252](#) [BI261](#) [BI262](#) [BI263](#) [BI269](#) [BI271](#) [BI272](#) [BI281](#) [BI310](#) [BI311](#) [BI321](#) [BI322](#) [BI331](#) [BI350](#) [BI352](#) [BI360](#)
[BI361](#) [BI362](#) [BI363](#) [BI364](#) [BI401](#) [BI420](#) [BI425](#) [BI432](#) [BI450](#) [BI453](#) [BI463](#) [BI466](#) [BI475](#) [BI476](#) [BI478](#) [BI480](#) [BI481](#)
[BI482](#) [BI493](#)

BI 103 General Biology I

3c-2l-4sh

Prerequisite: Non-Biology majors only

A basic introduction to ecology, biochemistry, and cell biology, genetics, and evolution.

BI 104 General Biology II

3c-2l-4sh

Prerequisites: BI103, non-Biology majors only

A basic introduction to plant and animal physiology, neurobiology, animal behavior, and plant and animal reproduction and development.

BI 105 Cell Biology

3c-0l-3sh

Prerequisite: Non-Biology majors only

An introductory course to provide concepts and applications for understanding human biological function from the point of view of cellular biology.

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BI 110 Plant Biology

3c-4l-5sh

Prerequisite: BI105 or special permission

Plant structure, function, development, recognition and grouping, environmental relationships, and economic importance of plants considered.

BI 111 Principles of Biology I

3c-3l-4sh

Prerequisite: Must be taken after or concurrent with CH111

Introduces the student to principles of biology, specifically in the topics of cell structure and function, genetics, and physiology. Develops skills in the use of the scientific method. Designed for biology majors.

BI 112 Principles of Biology II

3c-3l-4sh

Prerequisite: BI111

Introduces the student to principles of biology, specifically in the topics of reproduction, development, evolution, ecology, and animal behavior. Develops skill in the use of the scientific method. Designed for biology majors.

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BI 114 Environmental Science

3c-0l-3sh

Prerequisite: Non-Biology majors only

An introduction to environmental science with an emphasis on human impacts. The course uses an interdisciplinary approach to the consideration of population growth, pollution, preservation of species, and establishment of public policy. Students will learn basic principles in ecology as the basis for understanding problems of the environment.

BI 115 Biotic Diversity of North America

3c-0l-3sh **Prerequisites:** Non-Biology majors and non-Biology minors only

An introduction to the biological diversity of North America from Barrow, Alaska, to Tehuantepec, Mexico. All major aquatic and terrestrial biomes occurring in North America will be examined with regard to plant forms, animal composition, and environmental (abiotic) conditions.

BI 120 Animal Biology

3c-4l-5sh

Prerequisite: BI105 or special permission

Morphology, physiology, embryology, ecology, taxonomy, social, and economic importance of animals; consideration of principles applicable to a correlation of classical with present-day zoology.

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BI 150 Human Anatomy

2c-3l-3sh

Prerequisite: Non-Biology majors only

Study of the functional systematic anatomy of the human. Lab studies center on nonhuman mammals whose anatomy is then related to the human condition.

BI 151 Human Physiology

3c-2l-4sh

Prerequisites: BI105, non-Biology majors only

Course deals with acquiring, through lecture presentations and laboratory experiments, an understanding of the basic functions and control of the major organ systems of the human body. Organ systems examined include the following: muscular system, cardiovascular system, respiratory system, endocrine system, renal system, digestive system, reproductive system, and nervous system.

BI 155 Human Physiology and Anatomy

3c-3l-4sh

Prerequisite: Non-Biology majors only (Food and Nutrition, Dietetics, Family and Consumer Sciences Education, Physical Education, and Safety Sciences majors) Study of structure and function of the human body. Emphasis is on normal function, with particular attention to functional anatomy, control mechanisms, and interrelationships among systems. Laboratory studies will include experimentation and dissection. For students with little or no science background.

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BI 210 Botany

2c-3l-3sh

Prerequisite: BI111-112, or permission of instructor

A survey of the major plant groups, their physiology, structure, life cycles, evolution and ecology, and economic roles of plants. Combined lecture-laboratory.

BI 220 General Zoology

2c-3l-3sh

Prerequisite: BI111-112 or permission of instructor

Examination of the evolution, form, and function of all major animal phyla, from sponges through chordates. Interactive lecture-laboratory sessions follow a phylogenetic approach to the Animal Kingdom and incorporate essentials of animal ecology, physiology, functional morphology, and behavior.

BI 232 Fundamentals of Microbiology

2c-3l-3sh

Prerequisites: CH101 or equivalent, non-Biology majors only (Food and Nutrition, Dietetics, Family and Consumer Sciences Education, and Hotel, Restaurant, and Institutional Management majors)

Study of microorganisms and the role they play in water, food disease, and infection. Food spoilage, poisoning, and disease are emphasized. General methods and techniques are emphasized in the laboratory.

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BI 241 General Microbiology

2c-3l-3sh

Prerequisites: Non-Biology majors only (Environmental Health, Nursing and Respiratory Therapy majors), BI105, CH101, or equivalent

Study of microorganisms and the role they play in water, soil, food, and infection. Microbes and disease will be emphasized. Standard methods and techniques are emphasized in laboratory.

BI 250 Principles of Microbiology

2c-3l-3sh

Prerequisite: BI111-112 or permission of instructor

Study of the structure, nutrition, and biochemical activities of microbes. Survey of viruses, blue-green bacteria, bacteria, algae, fungi, and protozoa and their diversity in natural environments. Course designed for biology and biology education majors.

BI 251 Field Botany

2c-3l-3sh

Prerequisites: BI210

The collection, preservation, identification, and distribution of selected herbaceous and woody plants of Western Pennsylvania. Emphasis on taxonomic principles, the use of keys and manuals, and the recognition of local flora.

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BI 252 Field Zoology

2c-3l-3sh

Prerequisite: BI220

Field natural history of vertebrates; identification, collection, and preservation techniques.

BI 261 Ornithology

2c-3l-3sh

Prerequisites: BI111-112 or BI103-104

A study of birds of the region. Indoor laboratory as well as early morning and possibly weekend field trips required.

BI 262 General Entomology

2c-3l-3sh

Prerequisite: BI220

Morphology, anatomy, ecology, taxonomy, and economic and public health importance of insect orders, particularly those of Western Pennsylvania; student collection and field trips required.

[Back to Top](#)**BI 263 Genetics**

2c-3l-3sh

Prerequisite: BI111

Deals with the distribution and function of the hereditary material; special emphasis on microbial, viral, and molecular genetics.

BI 269 Bioethics and Coevolution

3c-0l-3sh

Discussion and exploration of the coevolution of man and nature. Areas covered include the concepts of coevolution, bioethics, resource utilization, and possible future lifestyles. Designed for majors and nonmajors.

BI 271 Evolution

3c-0l-3sh

Prerequisite: BI111-112 or BI103-104, BI263

Historical development of evolutionary thought; evidence and operational mechanisms involved; origin and phylogenetic relationships of biological groups.

[Back to Top](#)**BI 272 Conservation of Plant and Animal Resources**

2c-3l-3sh

Prerequisites: BI111-112 or BI103-104

A study of accepted practices in soil, water, forest, and wildlife conservation. Saturday field trips.

BI 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

BI 310 Applied Entomology and Zoonoses

2c-3l-3sh

Prerequisite: BI220 or permission

Study of the measures for abatement or control of arthropods, rodents, birds, and other disease vectors of public importance; selection, chemistry, formulation, and safe application of insecticides, rodenticides, and fumigants; pesticing equipment; application of biological and other measures of control.

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BI 311 Environmental Biology

3c-3l-4sh

Prerequisites: Restricted to Elementary Education and Earth Science Education majors only

Laboratory and field course providing basic knowledge in biology and its practical implications. Physical and biological aspects of the environment are studied.

BI 321 Environmental Protection I

2c-3l-3sh

Prerequisites: BI111- 112, CH112, Environmental Health majors only or permission of instructor

Considers the impact of important components of the physical environment on health and deals with principles and methods for identification, evaluation, and control of such health hazards. Major attention to principles and methods of epidemiological investigation. Major credit only for Environmental Health majors.

BI 322 Environmental Protection II

2c-3l-3sh

Prerequisites: BI111- 112, CH112, Environmental Health majors only or permission of instructor

Subjects receiving attention include water and food supplies, domestic and industrial sewage and wastes, housing, accidents, community air pollution, domestic and industrial poisons, ionizing radiations, occupational health hazards.

BI 331 Animal Developmental Biology

2c-3l-3sh

Prerequisite: BI220 or by permission

Comparative and molecular development of vertebrate animals are the major considerations. General principles of development are illustrated using vertebrate, invertebrate, and plant materials.

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BI 350 Cellular Physiology

2c-3l-3sh

Prerequisites: BI111, CH231

Topics include cell membrane systems, bioenergetics, and information processing systems as well as growth and differentiation of cells and their organelles. Complements plant and animal physiology and biochemistry.

BI 352 Comparative Animal Physiology

2c-3l-3sh

Prerequisites: BI220, CH231

Comparative study of homeostatic mechanisms and systems in animals and their relation to fundamental chemical and physical events in cells.

BI 360 Medical Mycology

2c-3l-3sh

Prerequisite: BI111-112

A study of the mycology of pathogenic fungi. Consideration will include sources of infection, distribution, symptomatology, diagnosis, prognosis, immunology, and treatment. Pathogens are used in the course, and emphasis is placed upon actual laboratory technique and procedures.

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BI 361 Microbiology

2c-3l-3sh

Prerequisites: BI105, CH231

Introduction to morphology, physiology, and ecology of procaryotic organisms. Importance of microorganisms in basic and applied research, economics, infection, and immunology are discussed.

BI 362 Ecology

2c-3l-3sh

Prerequisites: BI111-112, BI210 or BI220

Study of interrelations and adaptations of organisms; includes consideration of physical and biotic environmental factors. Field trips.

BI 363 Medical Microbiology

2c-3l-3sh

Prerequisites: BI250 or permission

Study of disease caused by microorganisms with emphasis on human pathogens. Both epidemiology and aspects of host-parasite relationships will be discussed. Lab stresses methods of isolation and identification of pathogens.

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BI 364 Immunology

2c-3l-3sh

Prerequisites: BI250, CH232, or by permission

Physical and chemical properties of antigens and antibodies; nature of antigen-antibody interactions; mechanism of antibody formation; and immune reaction and disease. Lab employs serological techniques.

BI 401 Laboratory Methods in Biology and Biotechnology

2c-4l-3sh

Prerequisite: CH351

Theory and practice in a number of major analytical and preparative techniques currently in use in physiology, molecular biology, and biotechnology.

BI 420 Biology of Higher Invertebrates

2c-3l-3sh

Prerequisite: BI220

A phylogenetic overview of the higher invertebrates, Annelida through lower Chordata. A systematic approach on functional morphology and microstructure, behavior and physiology, under an evolutionary umbrella. Laboratory sessions offer additional research opportunities.

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BI 425 Herpetology

2c-3l-3sh

Prerequisite: BI220

A comprehensive survey of the classes Amphibia and Reptilia, including their classification, structure, origin, evolution, phylogenetic relationships, distribution, and natural history. Special emphasis is placed on the herpetofauna of Pennsylvania.

BI 432 Comparative Vertebrate Anatomy

2c-3l-3sh

Prerequisite: BI220

Discussion of anatomy of representative vertebrates from a comparative point of view. Stresses major organizational changes observed in vertebrate history.

BI 450 Pymatuning: Field Studies

var-3sh

During the summer session, various field courses are offered through the Pymatuning Laboratory of Ecology. The offerings will vary depending on the summer. Some of the possible offerings include Experimental Design, Fish Ecology, Behavioral Ecology, Aquatic Botany, and Ecological Genetics. Information regarding specific offerings available from Biology Department in spring.

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BI 453 Plant Physiology

2c-3l-3sh

Prerequisites: BI210, CH231

Studies physiological processes occurring in plants considered in relation to growth, development, and ecology of plants.

BI 463 Limnology

2c-3l-3sh

Prerequisite: BI362

An investigation into the physical, chemical, and biological aspects of inland waters and their interrelationships. In the laboratory the student will gain experience in the techniques involved in aquatic sampling and the analysis of data. (Saturday or Sunday labs may be required.)

BI 466 Principles of Virology

3c-0l-3sh

Prerequisite: BI263 or equivalent course in Genetics, or CH351 or equivalent course in Biochemistry, or permission of instructor

Topics include structure, classification, assay, and transmission of viruses; methods used in the study of viruses; viral replication, gene expression, and gene regulation; host-viral interactions and subviral pathogens.

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BI 475 Mammalogy

2c-3l-3sh

Prerequisite: BI220

A general discussion of mammals emphasizing systematics, distribution, and structural and functional modifications related to evolution of this group. Lab work samples numerous techniques that can be applied to mammalian biology.

BI 476 Parasitology

2c-3l-3sh

Prerequisite: BI220

Structure, physiology, ecology, life cycles, pathology, and treatment of parasitic protozoa and flatworm and roundworm species of man. Dissection of hosts for parasites.

BI 478 Mycology

2c-3l-3sh

Prerequisite: BI210

Involves a study of the systemics, morphology, and physiology of the kingdom Myceteae with emphasis on economically important and experimentally useful organisms.

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BI 480 Biology Seminar

1c-0l-1sh

Discussion of recent trends in biological thought and research. Students report on assigned readings and/or personal research.

BI 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

This course varies from semester to semester covering diverse topics in specific areas of biology.

BI 482 Independent Study

var-1-3sh

Prerequisites: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. A 2.5 GPA overall and in major courses required.

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. Work is supervised by a faculty member but does not involve regular class or laboratory hours.

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BI 493 Biology Internship

var-6-12sh

Prerequisites: Biology major with at least 57 semester hours, 2.5 overall QPA, and permission of the director of internships and the chairperson

Selected students have opportunity, under department supervision, to gain off-campus practical experience in area of interest. Only six credits may be applied toward major; total number of credits will be decided in consultation involving student, his/her advisor, and director of internships.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Chemistry

Department of Chemistry
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CH101](#) [CH102](#) [CH111](#) [CH112](#) [CH113](#) [CH114](#) [CH116](#) [CH231](#) [CH232](#) [CH255](#) [CH281](#) [CH301](#) [CH321](#) [CH322](#) [CH323](#) [CH331](#) [CH335](#) [CH340](#) [CH341](#) [CH342](#) [CH343](#) [CH344](#) [CH351](#) [CH410](#) [CH411](#) [CH412](#) [CH421](#) [CH441](#) [CH481](#) [CH482](#) [CH493](#) [CH498](#)

CH 101 College Chemistry I

3c-2l-4sh

The basic principles and concepts of inorganic chemistry are developed from the standpoint of atomic and molecular structure with illustrative examples from descriptive chemistry. The laboratory portion of the course illustrates physical and chemical properties in a qualitative and quantitative manner. The course is designed for selected majors within the College of Health and Human Services.

CH 102 College Chemistry II

3c-2l-4sh

Prerequisite: CH101

The basic fundamental principles and concepts of organic and biochemistry are developed. Deals primarily with structural features of organic compounds, the chemistry of functional groups, and practical examples and uses of organic compounds. The laboratory portion illustrates properties and reactions of representative organic compounds. The course is designed for selected majors within the College of Health and Human Services.

CH 111 General Chemistry I

3c-3l-4sh

Lecture-discussion of principles of chemistry, including theory and applications. The lab illustrates principles discussed. Topics discussed include scientific measurements, simple definitions and concepts, the mole, stoichiometry, gas laws, electronic structure of the atom, bonding, thermochemistry, and descriptive chemistry of the elements.

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CH 112 General Chemistry II

3c-3l-4sh

Prerequisite: CH111

Continuation of General Chemistry I. Topics discussed include the solid and liquid state, solutions, kinetics, equilibria, acids and bases, solubility equilibria, thermodynamics, electrochemistry, and descriptive chemistry of the elements.

CH 113 Concepts in Chemistry

3c-3l-4sh

Introductory course for chemistry majors. Topics covered include atomic theory, an introduction to chemical reactions, stoichiometry, thermochemistry, chemical bonding, molecular geometry, kinetic-molecular theory of gases, the liquid

and the solid states, and solution theory.

CH 114 Basic Inorganic Chemistry

3c-3l-4sh

Prerequisite: CH113

Topics include chemical kinetics, equilibrium and thermodynamics, acids and bases, electrochemistry, coordination chemistry, and descriptive chemistry of selected elements.

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CH 116 Basic Inorganic Chemistry

3c-3l-2sh

Prerequisite: CH111 and 112

Required for chemistry majors who have taken CH111 and 112. A systematic study of the chemistry of the elements will be presented in both the lecture and the laboratory. Also included will be the chemistry of coordination compounds. This course starts at the beginning of the second half of the spring semester and is taught concurrently with CH114.

CH 231 Organic Chemistry I

3c-4l-4sh

Prerequisite: CH112 or 114

A study of compounds of carbon, with special emphasis on structure-reactivity relationships. Laboratory work emphasizes methods of separation and purification of organic compounds.

CH 232 Organic Chemistry II

3c-4l-4sh

Prerequisite: CH231

A continuation of Organic Chemistry I with an introduction to spectroscopic techniques. Laboratory work emphasizes the synthesis of representative compounds.

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CH 255 Biochemistry and Nutrition

3c-0l-3sh

Prerequisite: CH102

Course for Home Economics majors; studies chemistry and biological function of biologically active compounds with respect to nutritional requirements.

CH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

CH 301 Chemistry Seminar

1c-0l-1sh

Discussion of current technical literature and current research problems of staff. Lectures by outside chemists and student presentations. Open to junior or senior chemistry majors and to others by permission of the chairperson.

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CH 321 Quantitative Analysis

3c-4l-4sh

Prerequisite: CH112 or 114

Theory and practice of quantitative analysis, including gravimetric and volumetric analysis; special emphasis on perfecting student's laboratory techniques and application of general chemical knowledge through problem solving.

CH 322 Instrumental Analysis

3c-4l-4sh

Prerequisite: CH341

Modern instrumental methods of chemical analysis. Student learns theory behind the instrument, principles of operation, interpretation of data obtained, and limitations of methods.

CH 323 Analytical Methods

3c-4l-4sh

Prerequisites: CH112 and non-Chemistry major

Principles of precipitation, acid-base, oxidation-reduction, and equilibria are applied to problem solving and to laboratory determinations; instrumental methods of analysis, such as colorimetry, atomic absorption and flame emission, gas chromatography, etc.

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CH 331 Organic Molecular Structure Determination

4c-var-3sh

Prerequisites: CH231-232 (CH232 may be taken concurrently)

Gives the student experience in systematic identification of various classes of organic compounds by both chemical and physical methods.

CH 335 Advanced Organic Chemistry

3c-0l-3sh

Prerequisites: CH232 and 341

Selected topics of current interest covered. Possible topics include reaction mechanisms, molecular spectroscopy, stereochemistry, natural products, heterocyclics, polymer chemistry, and organic synthesis.

CH 340 Physical Chemistry for the Biological Sciences

3c-0l-3sh

Prerequisites: MA122 or 124 or 128, and PY112 or 132; CH232

One-semester course for Biochemistry and Biology majors. Chemical thermodynamics, equilibria, kinetics; quantum mechanics; and spectroscopy especially as applied to biomechanical systems.

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CH 341 Physical Chemistry I

4c-0l-4sh

Prerequisites: MA122, 124, or 128 and PY112 or 132; CH112 or 114

Chemical thermodynamics with applications to solutions, phase, and chemical equilibria-kinetic theory.

CH 342 Physical Chemistry II

3c-0l-3sh

Prerequisite: CH341

Study of solids, liquids, surfaces, chemical kinetics, electrochemistry, atomic and molecular structure.

CH 343 Physical Chemistry Laboratory I

0c-3l-1sh

Prerequisites: CH321, 341

Experiments illustrating application of fundamental laws to actual systems. Carries writing-intensive credit.

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CH 344 Physical Chemistry Laboratory II

0c-3l-1sh

Prerequisites: CH342, 343

Extension of Physical Chemistry Laboratory I; experiments related to chemical kinetics, molecular spectroscopy, and other topics of physical chemistry.

CH 351 Biochemistry

4c-0l-4sh

Prerequisite: CH231

Study of chemistry and biological functions of carbohydrates, lipids, proteins, minerals, vitamins, and hormones.

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CH 410 Advanced Inorganic Chemistry Laboratory

0c-3l-1sh

Prerequisite: CH322

A laboratory course in which the techniques used in the synthesis and characterization of inorganic compounds will be explored. Emphasis will be placed on the preparation of a wide variety of inorganic compounds and the methods by which they are identified and characterized.

CH 411 Advanced Inorganic Chemistry

3c-0l-3sh

Prerequisite: CH341

Gives understanding of advanced theories of atomic structure, chemical bonding, acids and bases, coordination compounds, and selected topics.

CH 412 Advanced Structural and Synthetic Methods in Inorganic Chemistry

2c-2l-3sh

Prerequisites: CH411 and either CH410 or 322

Advanced techniques used in the synthesis and characterization of inorganic compounds will be explored. In lecture, emphasis will be placed on the theory and application of structural and spectroscopic methods of characterization. In lab, emphasis will be placed on advanced methods of synthesis and structural characterization using representative examples of important classes of inorganic compounds.

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CH 421 Advanced Instrumental Analysis

4c-var-3sh

Prerequisite: CH322

Study of modern chemical analysis, using advanced instrumental techniques; emphasis on theory, principles of operation, capabilities, and limitations of advanced analytical instruments used.

CH 441 Advanced Physical Chemistry

3c-0l-3sh

Prerequisite or corequisite: CH342

Study of fundamental ideas of quantum and statistical mechanics, molecular structure, and other topics of current interest.

CH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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CH 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

CH 493 Internship in Chemistry

var-4-9sh

Prerequisites: CH113, 114, 231, 232, 321, 341, and departmental approval

Full-time involvement in an actual "on-the-job" situation in an industrial or research laboratory under the tutelage of a selected preceptor. A department faculty member will work closely with the student and preceptor and will assume responsibility for making the final evaluation and assigning a grade.

CH 498 Problems in Chemistry

var-1-2sh

Prerequisite: Permission of chairperson

Course of independent study on selected problems, including lab work, library reading, and conferences with staff member. A minimum of 4 hours per week required per credit.

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Geoscience

Department of Geoscience
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[GS101](#) [GS102](#) [GS103](#) [GS104](#) [GS105](#) [GS106](#) [GS111](#) [GS112](#) [GS113](#) [GS114](#) [GS121](#) [GS122](#) [GS131](#) [GS132](#) [GS141](#)
[GS150](#) [GS151](#) [GS221](#) [GS281](#) [GS310](#) [GS321](#) [GS322](#) [GS325](#) [GS326](#) [GS327](#) [GS330](#) [GS331](#) [GS332](#) [GS336](#) [GS337](#)
[GS338](#) [GS341](#) [GS342](#) [GS350](#) [GS361](#) [GS362](#) [GS371](#) [GS380](#) [GS411](#) [GS412](#) [GS440](#) [GS441](#) [GS480](#) [GS481](#) [GS482](#)
[GS493](#)

GS 101 The Dynamic Earth

3c-0l-3sh

Prerequisite: No Geoscience majors/minors

Examines the constant changes that affect the rocky surface of our planet. From volcanic eruptions and catastrophic earthquakes to the slow drift of continents and passage of ice ages, earth processes have shaped the history of life and altered the development of human civilization.

GS 102 The Dynamic Earth Lab

0c-2l-1sh

Prerequisite: No Geoscience majors/minors

Corequisite: Enrollment in GS101

Introduces students to the techniques geologists use to study the earth and reconstruct its past. Labs cover minerals, rocks, map interpretation, fossil identification. Includes field trips during the scheduled lab period.

GS 103 Oceans and Atmospheres

3c-0l-3sh

Prerequisite: No Geoscience majors/minors

The earth's oceans and atmosphere play a crucial role in determining the pace and extent of changes occurring to our global environment. This course will examine the composition and character of these components and their interaction with other major components of the earth system.

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GS 104 Oceans and Atmospheres Lab

0c-2l-1sh

Prerequisite: No Geoscience majors/minors

Corequisite: Enrollment in GS103

Introduces students to the techniques oceanographers and meteorologists use to study the earth's oceans and atmospheres and reconstruct their evolution. Labs cover seawater processes, oceanic circulation, marine life, atmospheric structure, and weather.

GS 105 Exploring the Universe

3c-0l-3sh

Prerequisite: No Geoscience majors/minors

Examines the history of time, the reasons for the seasons, the characteristics of the planets, moons, stars, and galaxies, and the history and future of space exploration.

GS 106 Exploring the Universe Lab

0c-2l-1sh

Prerequisite: No Geoscience majors/minors

Corequisite: Enrollment in GS105

Introduces students to the techniques astronomers use to study the celestial sphere. Constellations, seasons, motions of Sun, Moon, planets, and stars, characteristics of stars and galaxies. Includes two observations which will be held at night.

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GS 111 Earth Science for Educators I

3c-0l-3sh

Prerequisite: Natural Science/Science Education majors only

An in-depth treatment of introductory oceanography and geology designed specifically for Secondary Science Education majors. Focuses on fundamentals of the earth's physical processes and history and on the ocean's dynamics, chemistry, and tectonics.

GS 112 Earth Science for Educators I Lab

0c-3l-1sh

Prerequisite: Natural Science/Science Education majors only

Corequisite: Enrollment in GS111

Lab experiences in various aspects of oceanography and geology, designed to provide concepts and skills for future teaching to Secondary Education majors. Includes field trip(s).

GS 113 Earth Science for Educators II

3c-0l-3sh

Prerequisite: Natural Science/Science Education majors only

An in-depth treatment of introductory meteorology and astronomy designed specifically for Secondary Science Education majors. Focuses on atmospheric processes and climate change and on the earth's place in the solar system and universe.

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GS 114 Earth Science for Educators II Lab

0c-3l-1sh

Prerequisite: Natural Science/Science Education majors only

Corequisite: Enrollment in GS113

Use of the weather station and planetarium highlights a series of exercises designed to aid Secondary Science Education majors in developing concepts and laboratory skills for future teaching.

GS 121 Physical Geology

3c-0l-3sh

Prerequisites: Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology, Geography/Regional Planning majors, or permission of instructor

Introduction to the science of the earth, including physical properties of its interior and crust; its tectonic and surface processes; and the complex geologic interactions which shape and modify our planet. Designed to prepare students for

upper-level geology classes.

GS 122 Physical Geology Laboratory

0c-3l-1sh

Prerequisites: Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology, Geography/Regional Planning majors, or permission of instructor

Corequisite: Enrollment in GS121

Selected problems in rock and mineral identification, topographic and geologic mapping techniques, geologic landforms and deformation structures. Designed to prepare students for upper-level geology classes. Includes field trips.

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GS 131 Historical Geology

3c-0l-3sh

Prerequisites: Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology, Geography/Regional Planning majors, or permission of instructor

Introduction to history of the earth, including the fossil record and the history of biologic evolution; the growth and tectonic interactions of oceans and continents; and the physical evolution of the earth's atmosphere, lithosphere, and hydrosphere. Designed to prepare students for upper-level geology classes.

GS 132 Historical Geology Laboratory

0c-3l-1sh

Prerequisites: GS121/122, Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology, Geography/Regional Planning majors, or permission of instructor

Corequisite: Enrollment in GS131

Selected problems in stratigraphic analysis, paleontology, and structural geology; designed to prepare students for upper-level geology classes. Includes field trips.

GS 141 Introduction to Ocean Science

3c-0l-3sh

Introduction to physical, chemical, biological, and geological processes in oceanography and the interactions among them. Impact of exploitation of the oceans, coastal areas, marine, physical, and living resources on the environment and on humankind. Includes field trips which may involve a fee and may occur on weekends.

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GS 150 Geology of National Parks

3c-0l-3sh

A study of geological processes and earth history as documented by the classical geological features of U.S. and Canadian national parks. Includes Badlands, Glacier, Grand Canyon, Great Smokies, Gros Morne, Mammoth Cave, Yellowstone, Yosemite, and others. Not open to Geoscience majors or minors.

GS 151 The Age of Dinosaurs

3c-0l-3sh

A thorough introduction to dinosaurs and the world they inhabited. Topics include the most current theories regarding dinosaurian biology (behavior, metabolism, evolution), ecology (greenhouse climate, associated plants and animals), and extinction (asteroid impact, volcanism, climate change). Not open to Geoscience majors and minors.

GS 221 Physical Resources of the Earth

3c-0l-3sh

Introduction to mineral, energy, and water resources of the earth; genesis of ore depositions; exploration, exploitation, and utilization of resources; impact of exploitation of resources on the environment and on humankind. Includes field trips which may occur on weekends.

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GS 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

GS 310 Environmental Geology

2c-3l-3sh

Prerequisite: 8sh in geology or permission

The application of geologic information to the accommodation and reduction of natural hazards, to land-use planning, and to the utilization of earth materials. Includes field trips which occur on weekends.

GS 321 Mineralogy

2c-3l-3sh

Prerequisite: GS121 or CH111

Concerned with properties of minerals; introduction to crystallography and chemistry of crystals, followed by a determination of minerals and their probable genesis. Includes field trips which may occur on weekends.

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GS 322 Igneous and Metamorphic Petrology

2c-3l-3sh

Prerequisite: GS321

Concerned with a description of igneous and metamorphic rock character based upon mineral components and physical relationship between mineral components of a rock. Includes field trips which may occur on weekends.

GS 325 Structural Geology

2c-3l-3sh

Prerequisites: GS131 and 132/133 or permission of instructor

Study of primary structures, contacts, rock mechanics, joints, faults, folds, foliation, and lineation. Includes work with geologic maps and structure sections. Brunton compass, orthographic and stereographic projections. Includes field trips which may occur on weekends.

GS 326 Field Geology

2c-3l-3sh

Prerequisite: GS325

Principles and techniques of field geology with emphasis on developing field skills using Brunton compass, aerial photographs, topographic maps, altimeter, Jacob staff, and rock color charts. Field projects involve techniques of field note-taking, measuring and describing stratigraphic sections, geologic field mapping and analysis, construction of geologic maps and structure sections, and report writing. Includes field trips which may occur on weekends.

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GS 327 Geomorphology

2c-3l-3sh

Prerequisites: GS121, 131

A study of the origin of the earth's land forms, including relationship of geologic structure to landform types and role of geomorphic processes in landscape development.

GS 330 Paleontology

2c-3l-3sh

Prerequisite: GS131 or permission of instructor

Study of the morphology, evolution, geologic significance, and paleoecology of fossil organisms. Includes field trips which may occur on weekends.

GS 331 Hydrogeology

2c-3l-3sh

Prerequisites: MA121-122, GS121-122/123, or permission

An overview of groundwater geology, including flow equations, graphical solutions to flow problems, and computer modeling of flow systems, as well as the geotechnical and social implications of groundwater utilization. Includes field trips which occur on weekends.

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GS 332 Geochemistry

2c-3l-3sh

Prerequisite: CH111-112, GS121-122/123, or permission

Introduction to low-temperature chemistry of the earth's surface and near-surface; includes discussions of chemical activity, solution chemistry, organic geochemistry, trace elements, isotopes, and the chemistry of natural waters.

GS 336 Geology of the Northern Rockies

var-3sh

Prerequisite: Permission of instructor

A field study of the major geologic features and relationships involved in the development of the northern Rocky Mountains. National Park and Monument areas of South Dakota, Wyoming, and Montana are included among the areas investigated. (three weeks, summer only)

GS 337 Geology of Newfoundland

var-3sh

Prerequisite: Permission of the instructor

A field course designed to utilize the exceptional and diverse geologic features of Newfoundland for instruction of departmental majors and minors in tectonic analysis utilizing sedimentologic, stratigraphic, and paleontologic observations. (three weeks, summer only)

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GS 338 Geology of the American Southwest

var-3sh

Prerequisite: Permission of instructor

A field study of the major geologic features and relationships exposed in the American Southwest, including the Colorado Plateau, the Rio Grande Rift, Death Valley, and parts of the Southern Rocky Mountains. (3 weeks, summer only)

GS 341 Solar System

2c-3l-3sh

Prerequisites: MA121 and PY111

Fundamentals of astronomy, with emphasis on observational methods, mechanics, and origin of the solar system and spatial relationship of the solar system to the other members of the universe.

GS 342 Stellar Astronomy

2c-3l-3sh

Prerequisites: MA121 and PY111

Fundamentals of astronomy, with emphasis on sun, stars, galaxies, the sidereal universe, and use of spectroscopy for gathering astronomical data.

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GS 350 Operation of the Planetarium

var-1sh

Prerequisites: GS110, 341, 342, or permission of instructor

Designed to acquaint the student with methods of operation and repair of a Spitz A-3-P planetarium. Content includes topics suitable for lectures to various age groups. Student will write and present a demonstration program. Meets once a week with occasional evening observations.

GS 361 Physical Oceanography

2c-3l-3sh

Prerequisites: PY111 and MA121 or permission of instructor

Introduction to physical, chemical, geological, and biological nature of ocean: topography, submarine geology, and bottom deposits. Includes field trip(s) which may occur on weekend(s).

GS 362 Plate Tectonics

2c-3l-3sh

Prerequisites: PY111-112 and a minimum of 20sh of geology Introduction to formal theory of plate tectonics. Topics include magnetic anomalies, first motion studies, thermal structures of the plates, kinematics, crustal generation, sea floor spreading, collision, and subduction deformation. Prior to 1988 was titled Marine Geology and Plate Tectonics.

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GS 371 Meteorology I

2c-3l-3sh

Prerequisite: One year of physical science or physics

Introduction to meteorological sciences; composition and structure of the atmosphere; radiation principles; elementary thermodynamics and heat balance.

GS 380 Research Techniques in Geoscience

2c-0l-2sh

Prerequisite: Second-semester junior standing (75 credits or permission of instructor)

For students majoring in some aspect of geoscience. Teaches students the techniques of geoscience research: defining a project; doing background research; proposing multiple working hypotheses and collecting evidence pertaining to each. Students will then write up their research in both abstract and professional manuscript format. Cannot be taken subsequent to GS480.

GS 411 Sedimentary Petrology

2c-3l-3sh

Prerequisite: GS321 or permission of instructor

Study of sediments and sedimentary rocks with emphasis on interpreting ancient environments of deposition utilizing sieve analysis, hand lens, and petrographic microscope. Includes field trips which may occur on weekends.

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GS 412 Stratigraphy

2c-3l-3sh

Prerequisite: GS411 or permission of instructor

Principles and processes involved in development and description of stratified rock sequences, principles and problems of correlation, and selected stratigraphic problems. Includes field trips which may occur on weekends.

GS 440 Subsurface Geology

2c-3l-3sh

Prerequisite: Minimum 20 credit hours of geology

An introduction to the geology of petroleum, its origin, migration, entrapment, and production. Lab is designed to provide practical experience in subsurface mapping techniques and the use and evaluation of geophysical logging devices. Includes field trips which may occur on weekends.

GS 441 Carbonate Geology-Florida

var-3sh

Prerequisite: 17sh geology courses or written permission of instructor

Two to three weeks of field study in Florida Keys. Course will be conducted from base camp in Florida Keys and will consist of both land and water work as the different carbonate environments in the Keys, Florida Bay, and the Atlantic reef tract are studied.

GS 480 Geoscience Seminar

var-1sh

For seniors majoring in some aspect of geoscience. The seminar (1) provides the student with an opportunity to prepare, formally present, and defend a scientific paper based either on his/her own research or on a topic chosen with the approval of instructor and (2) provides opportunity to discuss topics presented by other students, faculty, or guests.

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GS 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

It is the department's intention to use this course to schedule extended field trips and for teaching special courses which will utilize the specialties of the Geoscience faculty.

GS 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Independent study provides the student with an opportunity to use library, laboratory, or field research in an area which is of interest under the supervision of a designated faculty member. Approval is based on academic appropriateness and availability of resources.

GS 493 Geoscience Internship

var-1-12sh

Summer or semester work experience with cooperating firms or agencies. May be scheduled only after consultation with advisor and chairperson. Requirements include up to three on-site consultations, depending on credit hours and location's site; completion of up to three oral progress reports; and submission of a detailed work diary. Restricted to junior and senior department majors; only three credits may be applied toward major.

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Physics

Department of Physics
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[PY101](#) [PY111](#) [PY112](#) [PY121](#) [PY122](#) [PY131](#) [PY132](#) [PY141](#) [PY142](#) [PY151](#) [PY161](#) [PY222](#) [PY223](#) [PY231](#) [PY242](#)
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[PY475](#) [PY476](#) [PY480](#) [PY481](#) [PY482](#) [PY490](#) [PY493](#)

PY 101 Energy and Our Environment

3c-0l-3sh

An overview of the areas of energy, transportation, and pollution. These topics are approached via the relevant concepts of physical science and physics. A nonlaboratory course for Liberal Studies requirements.

PY 111 Physics I Lecture

3c-0l-3sh

Prerequisites: Elementary algebra and trigonometry

General college physics; mechanics, wave motion, and sound.

PY 112 Physics II Lecture

3c-0l-3sh

Prerequisite: PY111

Electricity and magnetism, heat, light, atomic and nuclear physics, and an elementary introduction to relativity and quantum theory.

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PY 121 Physics I Lab

0c-3l-1sh

Corequisite: PY111

Physics laboratory at level of Physics I; exercises in mechanics, wave motion, and sound.

PY 122 Physics II Lab

0c-3l-1sh

Corequisite: PY112

Physics laboratory at level of Physics II; exercises in optics, electricity and magnetism, and radioactivity.

PY 131 Physics I-C Lecture

3c-0l-3sh

Prerequisites: MA121, 123, or 127, at least concurrently

A calculus-based course in general college physics; topics covered are similar to those covered in Physics 111 but are

treated in more depth through the use of calculus.

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PY 132 Physics II-C Lecture

3c-0l-3sh

Prerequisites: MA122, 124, or 128, at least concurrently

Continuation of Physics I-C; topics covered are similar to those covered in Physics II but are treated in more depth through the use of the calculus.

PY 141 Physics I-C Lab

0c-3l-1sh

Corequisite: PY131

Physics laboratory at same level as Physics I-C; exercises in mechanics, wave motion, and sound.

PY 142 Physics II-C Lab

0c-3l-1sh

Corequisite: PY132

Physics laboratory at same level as Physics II-C; exercises in optics, electricity and magnetism, and radioactivity.

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PY 151 Medical Physics Lecture

3c-0l-3sh

Development of concepts and principles of physics with a strong emphasis as to their use and application in medical and other biophysical areas.

PY 161 Medical Physics Lab

0c-3l-1sh

Corequisite: PY151

Experiments dealing with applications of physical principles to the field of medicine. Practical experience with use of electronic equipment, chart recorders, etc., of type found in modern-day medicine will be introduced.

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PY 222 Mechanics I

2c-0l-2sh

Prerequisites: PY111 or 131; MA122, 124, or 128

Dynamics of a particle in one, two, and three dimensions, central forces including planetary and satellite motion, energy in particle dynamics, statics, and systems of particles.

PY 223 Mechanics II

2c-0l-2sh

Prerequisites: PY222, MA241

Mechanics of a rigid body, constraints, oscillations, wave motion, introduction to Lagrangian and Hamiltonian formulation and relativistic mechanics.

PY 231 Electronics

3c-3l-4sh

Prerequisites: PY112 or 132; MA122, 124, or 128

Circuit theory, transients, transistor circuits, frequency response, input and output impedance, feedback and electronic noise. Operational amplifiers and digital electronics.

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PY 242 Optics

3c-0l-3sh

Prerequisites: PY112 or 132; MA122, 124, or 128

Geometrical optics and physical optics; including interference, diffraction, and polarization. Quantum optics is introduced.

PY 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

PY 299 Cooperative Education I

var-1-3sh

Prerequisites: PY 132; completion of 30 credits with a minimum of 2.0 GPA and approval of the cooperative education coordinator

This program blends classroom theory with practical application through job-related experience. Students will work in positions offered by the participating industrial or federal/state work-study program employers under joint supervision of the Physics faculty and the on-site supervisor. A co-op student must be a full-time university student in good academic standing and be planning to return to campus for completion of his/her degree program. Evaluation requirements may include on-site visitations by the faculty/coordinator, consultation with the on-site supervisor, and a major progress report by the student or the presentation of a detailed oral report before the departmental cooperative education committee.

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PY 322 Electricity and Magnetism I

2c-0l-2sh

Prerequisite: PY222

Electrostatic potential theory, dielectrics, dipole theory, magnetostatics, Maxwell equations for static fields, and Legendre's polynomials and other approximation methods.

PY 323 Electricity and Magnetism II

2c-0l-2sh

Prerequisite: PY322

Time-dependent form of Maxwell equations, electromagnetic induction, vector potential, magnetism, radiation fields, and Poynting vector.

PY 331 Modern Physics

3c-0l-3sh

Prerequisites: PY112 or 132; MA122, 124, or 128

Introduction to particle and wave properties of matter, atomic structure, relativity, solid state and nuclear physics.

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PY 342 Thermal and Statistical Physics

3c-0l-3sh

Prerequisites: PY112 or 132; MA122, 124, or 128

Thermometry, laws of thermodynamics, low-temperature physics, entropy, properties of ideal gas, and an introduction to statistical mechanics.

PY 350 Intermediate Experimental Physics I

0c-6l-3sh

Prerequisites: PY242 and 331

Required fundamental experiments in areas of mechanics, optics, modern physics, and heat.

PY 351 Intermediate Experimental Physics II

0c-6l-3sh

Prerequisite: PY350

Increasingly sophisticated experiments in essential areas of physics. Digital computers and the Van de Graaff are available.

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PY 352 Applied Physics Laboratory

0c-6l-3sh

Prerequisites: PY 231, PY 150, or permission of instructor

In this laboratory the student is introduced to much of the fundamental equipment used in industry. The student is trained in the operation and proper use of this equipment through a series of experiments that teach him/her signal detection and analysis including data acquisition by computer. The student will receive instruction on the proper methods to be used for various oral and written presentations.

PY 353 Solid State Electronics Laboratory

0c-6l-3sh

Prerequisite: PY352 or permission of instructor

In this laboratory the student will encounter a number of areas of current interest in semiconductor technology. The student will perform experiments and learn skills in such areas as device process simulation, device simulation, measurements of semiconductor materials, and measurement of device parameters. The student will also be instructed in the proper presentation of written and oral reports.

PY 355 Computer Interfacing

2c-2l-3sh

Prerequisite: CO110

This course is designed to teach the fundamentals of interfacing the personal computer to its physical surroundings. The students will learn how to collect data and to control experiments in real time. They will learn how to use digital to analog conversion (DAC) techniques and analog to digital conversion (ADC) techniques. They will also use a graphical software package (such as LabVIEW) to design icon based interfacing tools, to learn how to use virtual instruments and to analyze data. (Offered as PY150 Computer Applications to Physics Laboratories prior to 1997-98)

PY 399 Cooperative Education II

var-1-3sh

Prerequisites: PY 299; PY 350; completion of 80 credits with a minimum of 2.5 GPA and approval of the cooperative education coordinator

A second course in cooperative education. Includes instruction that builds upon learning experiences in college by combining and correlating them with learning experiences at the training station to meet the student's career goals.

Evaluation requirements may include on-site visitations by the faculty/coordinator, consultation with the on-site supervisor, and a major progress report by the student or the presentation of a detailed oral report before the departmental cooperative education committee. No more than three semester hours of PY299, PY399, and/or PY493 may be used in fulfilling physics major course requirements.

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PY 432 Advanced Electronics

2c-3l-3sh

Prerequisite: PY231

Digital measurement, switching circuits, logic circuits, counting, coding, input and output, AD and DA converters, computer organization.

PY 472 Nuclear Physics

3c-0l-3sh

Prerequisite: PY331

Survey of nuclear physics, nuclear size, nuclear mass, reaction theory, types of radioactive decay, nuclear models, nuclear forces, and elementary particles.

PY 473 Quantum Mechanics I

4c-0l-4sh

Prerequisites: PY222 and 331

Quantum mechanics following methods of Schrodinger and Heisenberg; the theory is applied to properties of harmonic oscillator, hydrogen atom, electron in a magnetic field, and radioactive decay of alpha particles.

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PY 475 Physics of Semiconductor Devices I

3c-0l-3sh

Prerequisites: PY231, PY242, PY342, or permission of instructor

Develops the basic foundation for a study of the theory of semiconductors. Elementary quantum concepts, the band theory of solids, electrical properties of solids, effective mass theory, and principles of semiconductor devices are discussed.

PY 476 Physics of Semiconductor Devices II

3c-0l-3sh

Prerequisite: PY 475 or permission of instructor

Discusses the physics and operation of a number of discrete devices including: bipolar transistors, MOSFETS, JFETS, CCDs, various diode technologies, photovoltaic and photoconductive devices, solid-state lasers, and light-emitting diodes.

PY 480 Seminar

var-1sh

Speakers from within and outside the university conduct a seminar on a weekly or biweekly basis on different topics of interest in the physics community.

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PY 481 Special Topics in Physics

var-1-3sh

Prerequisite: As appropriate to course content

Varies from semester to semester and covers diverse topics in specific areas of physics. This course number is also used to offer courses under development.

PY 482 Independent Study in Physics

var-1-6sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. Work is supervised by a physics faculty member but does not necessarily involve regular lecture or laboratory hours.

PY 490 Solid State Physics

3c-01-3sh

Prerequisites: PY223 and 331

Reciprocal lattice, crystal structure, the quantization of fields to produce quasi-particles such as phonons, magnons, excitons. Fermi gas of electrons, energy bands, semiconductor crystals, and photoconductivity.

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PY 493 Internship in Physics

var-1-3sh

Prerequisites: PY 350; completion of 90 credits with a minimum of 2.5 GPA and approval of the internship education coordinator

Supervised professional work-experience in physics and applied physics. Location, duties, internship, and hours are individually tailored to the student's career goals. A maximum of 3sh of internship in the student's major may be applied toward the physics major area elective requirements. Additional internship credit must be used as free electives. Evaluation requirements include on-site visitations by the faculty/coordinator, consultation with the on-site supervisor, and a major progress report by the student or the presentation of a detailed oral report before the departmental internship education committee.

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Science

College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[SC101](#) [SC102](#) [SC103](#) [SC104](#) [SC105](#) [SC106](#) [SC281](#) [SC481](#) [SC482](#)

SC 101 Fundamentals of Physics

2c-2l-2.5sh

Prerequisite: Elementary Education major or instructor permission

A conceptual course in physics for Elementary Education majors. High school physics is not a prerequisite. Class and lab presentations concentrate upon dispelling naive concepts and developing a better understanding and appreciation of the physical world. The topics of motion, heat, light, sound, electricity, magnetism, and the nucleus are presented in context with our everyday experiences. This course does not fulfill the Liberal Studies requirement except for majors in Elementary and Early Childhood Education.

SC 102 Fundamentals of Chemistry

2c-2l-2.5sh

Prerequisite: Elementary Education major or instructor permission

A survey of chemical principles and concepts. The nature of chemical reactions as applied to technology and its applications to society. The world of consumer chemistry will be explored. The goal is to develop a chemical literacy for the student. A series of laboratory exercises develops concept understanding and process skills. Some individual and group projects will be included. This course does not fulfill the Liberal Studies requirement except for majors in Elementary and Early Childhood Education.

SC 103 Fundamentals of Earth and Space Science

2c-2l-2.5sh

Prerequisites: SC101, SC102

Introduction to geology, astronomy, oceanography, and meteorology for Elementary Education majors. Emphasis is placed on the understanding of large-scale processes and how the earth, solar system, and universe work. Lab experiences include hands-on work with earth materials and with instruments from all of our subjects, map, and field trips which may occur during class times, nights, and weekends. This class does not fulfill the Liberal Studies requirement except for majors in Elementary and Early Childhood Education.

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SC 104 Fundamentals of Environmental Biology

2c-2l-2.5sh

Prerequisites: SC101, SC102

A basic introduction to the major concepts and principles of ecology and their application to modern living for majors in Elementary and Early Childhood Education.

SC 105 Physical Science I

3c-2l-4sh

A descriptive and conceptual course in physics for the non-Science major. High school physics is not a prerequisite. Course content is designed to develop an understanding and appreciation of the physical world around us, to produce changes in attitude and background essential for our modern society, and to clarify the following topics: motion, heat, sound, light, electricity, magnetism, and the structure of matter.

SC 106 Physical Science II

3c-2l-4sh

A basic course in environmental and consumer chemistry for the non-Science major. High school chemistry is not a prerequisite. Major topics include humankind's use and abuse of soil, water, air and energy resources, global food production and hunger, the nuclear industry, and the threat of nuclear war. Consumer topics include vitamins and nutrition, food additives, pesticides, and drugs.

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SC 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

SC 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

SC 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Anthropology

Department of Anthropology
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[AN110](#) [AN211](#) [AN213](#) [AN222](#) [AN233](#) [AN244](#) [AN271](#) [AN272](#) [AN273](#) [AN274](#) [AN281](#) [AN286](#) [AN314](#) [AN315](#)
[AN316](#) [AN317](#) [AN318](#) [AN320](#) [AN340](#) [AN350](#) [AN360](#) [AN365](#) [AN401](#) [AN415](#) [AN420](#) [AN444](#) [AN456](#) [AN480](#)
[AN481](#) [AN482](#) [AN483](#) [AN493](#)

AN 110 Contemporary Anthropology

3c-0l-3sh

An introduction to the nature of anthropological inquiry. By using the anthropological perspective, current relevant topics will be discussed. Topics could include but are not limited to changing myths and rituals, legal anthropology, cross-cultural aspects of aging, gender roles, evolutionism and creationism, cultural extinction, and world hunger.

AN 211 Cultural Anthropology

3c-0l-3sh

Explores the nature of culture as a human survival technique. Provides a framework for appreciation and understanding of cultural differences and similarities in human societies, past and present.

AN 213 World Archaeology

3c-0l-3sh

Survey of the prehistory of Western and non-Western cultures with emphasis on the development of technology and on the evolution of adaptive strategies with particular attention to the origins of agriculture. This course exposes the students to the diversity of past cultural systems and to the methodological and theoretical questions of concern to archaeologists.

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AN 222 Biological Anthropology

3c-0l-3sh

Introduction to the goals and techniques of biological anthropology with emphasis on primatology, paleoanthropology, genetics, and osteology. Provides a basis for evaluating the role of biology in human behavior.

AN 233 Language and Culture

3c-0l-3sh

Focuses on social and cultural functions of language. Particular emphasis given to problems in anthropology with respect to non-Western languages.

AN 244 Basic Archaeology

3c-0l-3sh

Introduction to the goals and methods of anthropological archaeology with particular attention to the analysis of cultural chronology, past lifeways, and cultural process. Provides laboratory experience with artifacts and other archaeological data.

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AN 271 Cultural Area Studies: Africa

3c-01-3sh

Explores the cultural diversity of the continent of Africa. The first unit examines the historical processes which shape modern society, including the formation of indigenous African empires, the evidence for trade routes, slave trading, and colonialism. The second unit examines the nature of African traditional societies, including analyses of forager and agricultural groups. The last unit covers issues of contemporary development in Africa such as famine and agricultural policy, the status of women in economic development, and apartheid. Reading includes ethnographic and historical accounts of African society as well as selections by African writers on the issues of contemporary society. (Also offered as SO271; may not be taken for duplicate credit.)

AN 272 Cultural Area Studies: China

3c-01-3sh

Designed to assist the student in developing an understanding of contemporary China. While the course will begin with prehistoric and historic aspects of China, the focus will be on contemporary issues presented in the context of anthropological theory. Specific Chinese cultural components that will be investigated include values, attitudes, norms, social organization, linguistics, and folklore. (Also offered as SO272; may not be taken for duplicate credit.)

AN 273 Cultural Area Studies: Southeast Asia

3c-01-3sh

An introduction to the peoples and cultures of Southeast (SE) Asia. Prehistory and the development of indigenous states in SE Asia and analysis of impact of world religions, such as Islam, and Western colonialism. Also examines modern hunter-gatherer and farming societies and discusses contemporary issues in social and economic change, including the Green Revolution, tropical deforestation, the struggle of ethnic minority tribal peoples, and the plight of Indochinese refugees. (Also offered as SO273; may not be taken for duplicate credit.)

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AN 274 Cultural Area Studies: Latin America

3c-01-3sh

An introduction to the peoples and cultures of Latin America. Focuses on the prehistory and development of pre-Columbian complex societies in Mesoamerica and the Andes and analyzes the impact of European colonialism on these major regions. Also examines contemporary issues, such as civil wars, economic development, rural-urban migrations, and migration and immigration of Latin American peoples into the United States. (Also offered as SO274; may not be taken for duplicate credit.)

AN 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

AN 286 Marriage, Kinship, and the Family

3c-01-3sh

Sociological and anthropological study of patterns of marriage, kinship, and family life, with emphasis on the

relationship between family patterns and other social institutions. Topics covered include the family and marriage in historical and comparative perspective; worldwide patterns of gender stratification; incest and incest avoidance; class and race contexts of family patterns; mate selection and love; parenthood and child rearing; domestic and sexual violence; alternative family lifestyles; and the current crisis and possible future of the family. Intended for a broad audience but also open to sociology and anthropology majors and minors. (Also offered as SO286; may not be taken for duplicate credit.)

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AN 314 Native Americans

3c-0l-3sh

Survey of culture history and culture area characteristics of the Indians of North America. Detailed study of representative groups related to historical, functional, and ecological concepts.

AN 315 North American Archaeology

3c-0l-3sh

Prerequisite: AN110 or 244 or permission of the instructor

Survey of North American prehistory with emphasis on cultural ecology and technology. Attention is given to all geographic areas north of Mexico, but the focus is on the Eastern Woodlands.

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AN 316 Anthropology of Religion

3c-0l-3sh

Prerequisite: AN110 or 211

Explores nature, function, and universal characteristics of religion in human society by utilizing cross-cultural approach. Theories concerning religious phenomena serve as topics for discussion.

AN 317 Archaeology Research Design and Analysis

3c-0l-3sh

Prerequisite: AN244 or permission of the instructor Introduction to theory and method in archaeological research through lecture, laboratory exercises, and individual projects. Provides students with actual experience analyzing and interpreting archaeological data sets.

AN 318 Museum Methods

3c-0l-3sh

Prerequisite: AN110 or 211 or 244

Lecture and laboratory course surveying the role of museums as social and educational institutions, types of museums, museum administration, and museum architecture. Procedures for collection, curation, preservation, and storage of anthropological and natural history specimens examined.

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AN 320 Archaeological Field School

var-6sh

Prerequisite: AN110, 244, or permission of instructor

Introduction to archaeological survey, field excavation, and laboratory processing. Field school students participate in one or more of the on-going research projects of the IUP Archaeology Program.

AN 340 Anthropology of Aging

3c-0l-3sh

Introduces the student to various experiences faced by elderly people in numerous world's societies. Explores the impact of such factors as ethnicity, nationality, race, and class and the processes of cultural change on the lives of people growing old. Comparative, cross-cultural perspectives will be stressed.

AN 350 Anthropology of Women

3c-0l-3sh

Designed for any student with an interest in the lives of women around the world, regardless of whether or not he or she has a strong background in anthropology. Examines the social roles, rights, and responsibilities of women cross-culturally, viewing both women's productive (economic) functions as well as reproductive functions. Reading describes the position of women in technologically simple societies and addresses the comparative position of women in the industrialized socialist and capitalist countries. The central theme of the course is an examination of how the position of women has changed in the twentieth century.

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AN 360 Applied Anthropology

3c-0l-3sh

Applied anthropology focuses on the anthropologist as an agent of social change and bridges the gap between theories of cultural behavior and the policies which affect contemporary cultures. Examines the historical role of anthropologists in early public administration and then examines at length the work of contemporary applied anthropologists in programs of international economic development (health, agriculture, and education), in domestic human service planning and delivery, in cultural resource preservation, and in their role as advocates for unempowered minorities.

AN 365 Native North American Religions

3c-0l-3sh

An introduction to the indigenous religions of North America and to the peoples who practice these rich and varied approaches to the sacred. This course not only examines major religious themes and dimensions (myth, ritual, ethics, etc.) but includes a historical perspective on North American Indian lifeways. This perspective involves discussion of the clash with Euro-American values and contemporary native religious responses to social crisis and change. (Also offered as RS365; may not be taken for duplicate credit)

AN 401 Social and Cultural Change

3c-0l-3sh

Prerequisite: AN110 or SO151 Exploration of current theoretical perspectives on social and cultural change. Special attention given to planned change at the local or regional level.

AN 415 Cultural Resource Management

3c-0l-3sh

Prerequisite: AN244 or consent of the instructor

Provides an understanding of how cultural resources are being preserved and managed under current American laws and regulations with particular emphasis on historic properties, such as historic buildings and archaeological sites. Case studies and field trips are incorporated so that students gain a thorough understanding of key problems and issues in historic preservation and cultural resource management.

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AN 420 Cultural Ecology

3c-0l-3sh

Prerequisite: AN110 or 211

Introduces the student to the field of ecological anthropology by exploring the concept of the ecosystem in relationship

to varying human adaptive strategies. Illustrates the importance of understanding man-environment interactions both in studying the developing world and in investigating the past.

AN 444 Medical Anthropology

3c-0l-3sh

Prerequisite: 9 credits in anthropology or permission

Focuses on the study of human confrontation with disease and illness and on the adaptive arrangements made by various human groups for dealing with these dangers. Health and disease are viewed from a broad array of micro and macro perspectives, e.g., evolutionary, ecological, and psychosocial. Designed for nursing and social work students as well as social and biological sciences students.

AN 456 Field Research Methods

3c-0l-3sh

Prerequisite: 9 credits in anthropology

Examination of methods and practice of sociology and anthropology in the areas of qualitative and quantitative methods. Concentrates upon the development of field notes, interviewing techniques, participant observation, etc. Qualitative methods of sampling and analysis will include theoretical sampling and analytic induction. Brief background research into community, organizational, and group structure will also be emphasized.

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AN 480 Anthropology Seminar

var-1-3sh

Prerequisite: 9 credits in anthropology or permission

A seminar approach to the integration of the fields of anthropology. Designed to assist the advanced student in understanding the nature of anthropology, the major theoretical issues, and the history of intellectual development.

AN 481 Special Topics in Anthropology

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

AN 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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AN 483 Readings in Anthropology

var-1-3sh

Directed readings on special topics in anthropology. Instructor guides selection of readings.

AN 493 Internship in Anthropology

var-3-12sh

Prerequisite: Permission of the instructor

The course is designed to offer students practical experience in any of the specialized fields of anthropology (physical,

social-cultural, archaeology, or linguistics). Each student develops objectives in consultation with a particular departmental faculty member who is supervising the internship. Detailed field notes and a major paper based on the experience are required.

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Criminology

Department of Criminology
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CR101](#) [CR102](#) [CR210](#) [CR260](#) [CR270](#) [CR281](#) [CR283](#) [CR291](#) [CR295](#) [CR300](#) [CR306](#) [CR355](#) [CR357](#) [CR361](#) [CR370](#) [CR371](#) [CR383](#) [CR386](#) [CR388](#) [CR390](#) [CR391](#) [CR400](#) [CR401](#) [CR416](#) [CR451](#) [CR470](#) [CR480](#) [CR481](#) [CR482](#) [CR491](#) [CR493](#)

CR 101 Crime and Justice Systems

3c-0l-3sh

This course introduces the field of criminology through the examination of historical data, statistical information, theories of criminal causation, social control of behavior, development of laws, evaluation of criminal justice system policies, procedures, and trends. Students will learn the terminology of the field, gain an awareness of the methods of inquiry utilized in the field, and have the opportunity to examine personal attitudes and values regarding crime and responses to crime.

CR 102 Survey of Criminology

3c-0l-3sh

The purpose of this course is to provide an understanding of the discipline of criminology through an examination of its theories, basic assumptions, and definitions.

CR 210 Criminal Law

3c-0l-3sh

A study of the history and sources of criminal law coupled with an analysis of the substantive elements of specific crimes.

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CR 260 Criminal Procedure and Admissibility of Evidence

3c-0l-3sh

Law of arrest, search, and seizure, with discussion of important case law. Analysis of safeguards established for protection of individual liberties.

CR 270 Juvenile Justice System

3c-0l-3sh

A study of the agencies and processes dealing with juvenile justice in the United States.

CR 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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CR 283 Police Patrol Administration

3c-01-3sh

The study of the role and characteristics of the police patrol function. Special emphasis is given to understanding how patrol relates to other police functions and its effect on crime.

CR 291 Theory and Techniques of Interviewing

3c-01-3sh

Consideration of the theory, nature, methods, and principles of interviewing.

CR 295 Criminal Investigation

3c-01-3sh

The study of logical and scientific principles necessary for the detection and investigation analysis of criminal activities. Theories of information, interrogation, observation and interrogation, and observation and ethics are among the topics to be discussed.

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CR 300 Theory of Complex Criminal Justice Organizations

3c-01-3sh

Prerequisite: CR102 or permission of instructor

Study of the evolution and theories of organizational alternatives and their application to the administration of justice.

CR 306 Criminological Research Methods

3c-01-3sh

Prerequisite: CR102 or permission of instructor

An introduction to the basic criminological research methods designed to prepare the student to understand and participate in quantitative and qualitative research.

CR 355 Crime in the Workplace

3c-01-3sh

Study of the theoretical and legal basis of crime in the workplace.

CR 357 Law, Social Control, and Society

3c-01-3sh

The evolution and development of the modern legal system. Topics include civil, criminal, and administration law, the legal profession, legal systems in American society, and the law as one of many instruments of social control and social change.

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CR 361 Juvenile Law

3c-01-3sh

An analysis of pertinent juvenile law and procedure involving case study methods.

CR 370 Correctional Institutions

3c-01-3sh

An examination of the organization and function of correctional institutions. Emphasis is placed on various social processes and problems associated with incarceration.

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CR 371 Community-Based Corrections

3c-01-3sh

A survey of noninstitutional programs, focusing on alternatives to incarceration in community settings. Programs reviewed include prerelease, probation, parole, halfway houses, and restitution-based programs.

CR 383 Police Administration

3c-01-3sh

A study of police management, structure, and operations and their roles in the quality of services delivered. The relationship between police administration and its social environment will be examined.

CR 386 Correctional Administration

3c-01-3sh

A study of correctional management, structures, and operations and their roles in the quality of services delivered. The relationship between correctional administration and its social environment.

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CR 388 Court Administration

3c-01-3sh

A study of court responsibility within the criminal and civil justice systems; jurisdictions, policies, and management procedures in court administration.

CR 390 Women and Crime

3c-01-3sh

A study of the nature and extent of women's crime, theories of female criminality, processing of women offenders through the criminal justice system, the response of police and court officials to women as victims of crime, and opportunities for women as employees in criminal justice agencies.

CR 391 Substance Use and Abuse in Criminal Justice

3c-01-3sh

Study of substance use and abuse confronting American society. Alcohol and drug use and abuse education, philosophy, physiological effects, and social aspects will be examined in terms of control measures and public safety.

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CR 400 Theoretical Criminology

3c-01-3sh

A review and critical analysis of the major criminological theories beginning with the Classical School; psychological, sociological, economic, biological, and political theories of crime and its causes will be included.

CR 401 Contemporary Issues in Criminology

3c-01-3sh

Examination of the nature and extent of crime in modern Western society. Emphasis will be placed on issues selected

from, but not limited to, emerging patterns of violence, organized crime, white collar crime, victimless crime, corruption, and those crime control strategies deemed appropriate in a democracy.

CR 416 Criminal Justice Personnel and Supervision

3c-0l-3sh

Study of public personnel systems with specific application to criminal justice agencies. The role and function of supervision as a concept of a comprehensive personnel system as well as the relationship between agency personnel and the impact on crime will be examined.

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CR 451 Etiology of Delinquent Behavior

3c-0l-3sh

An analysis of the prevalent theories of delinquency causation with a view toward developing prevention, control, and treatment approaches.

CR 470 Comparative Study of Justice

3c-0l-3sh

Comparison of American systems of administration of justice with those of other nations.

CR 480 Seminar in Criminology - The Administration of Justice

3c-0l-3sh

A study of selected topics in criminology—the administration of justice. May be taken more than once for a maximum of 6 semester hours. Not for credit after prior CR480: Seminar in the Administration of Justice.

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CR 481 Special Topics in Criminology

var-1-3sh

Prerequisite: Department consent

A seminar providing study of selected topics not emphasized in other courses. May be taken more than once to a maximum 6 semester hours.

CR 482 Independent Study in Criminology

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

CR 491 Individual and Group Treatment Modalities

3c-0l-3sh

A study of the therapeutic techniques, process, and application used in various criminal justice environments.

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CR 493 Internship

var-3-12sh

A structured field placement designed to broaden the student's educational experience through observation and participation in work assignments in government or private sectors. Six semester hours of credit can be applied to the major requirements.

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Economics

Department of Economics
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EC101](#) [EC121](#) [EC122](#) [EC241](#) [EC281](#) [EC283](#) [EC325](#) [EC326](#) [EC330](#) [EC331](#) [EC332](#) [EC333](#) [EC334](#) [EC335](#) [EC336](#)
[EC339](#) [EC343](#) [EC345](#) [EC346](#) [EC350](#) [EC351](#) [EC355](#) [EC356](#) [EC360](#) [EC371](#) [EC372](#) [EC373](#) [EC383](#) [EC421](#) [EC422](#)
[EC480](#) [EC481](#) [EC482](#) [EC493](#)

EC 101 Basic Economics

3c-0l-3sh

Scarcity, role of prices in determining production and the allocation of resources, business cycle analysis, policy options for reducing unemployment and inflation, economic role of government, international trade, and selected current economic problems are studied. For those who do not plan to take more than 3 semester hours of economics. Note: May not be taken after successful completion of or concurrent registration in any other Economics course.

EC 121 Principles of Economics I

3c-0l-3sh

Nature and methodology of economics; mixed capitalism and market economy; national income; employment theory, including economics of fiscal policy; money, banking, and Federal Reserve System; international trade and finance.

EC 122 Principles of Economics II

3c-0l-3sh

Economics of the firm; theory of consumer demand; determination of price and output in different market structures; distribution of income; economic growth.

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EC 241 Contemporary Economic Issues

3c-0l-3sh

Prerequisite: EC101 or 122

A rigorous but nontechnical analysis of a variety of economic problems and a formulation and evaluation of possible corrective policies.

EC 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

EC 283 Environmental Economics

3c-0l-3sh

Prerequisite: EC101 or 122

Examination of economic costs and benefits of environmental control and modification. Techniques of economic analysis are used to understand economic aspects of environmental problems and contribute toward their solution.

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EC 325 Monetary Economics I

3c-0l-3sh

Prerequisites: EC121, 122

Organization, operation, and economic significance of U.S. monetary institutions; commercial banks and Federal Reserve System; survey of monetary theory and policy; mechanism of international payments.

EC 326 Monetary Economics II

3c-0l-3sh

Prerequisite: EC325 or permission of the instructor

Detailed study of monetary theory; tasks of central banking; principal objectives of monetary policy; intensive study of recent monetary experience; complementary and competing aims of monetary and fiscal policy.

EC 330 Labor Economics

3c-0l-3sh

Prerequisites: EC121, 122

History, structure, and operation of trade unions and employer organizations; major federal labor legislation; collective bargaining theory; wage determination; current labor problems.

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EC 331 Economic Organization of Industry

3c-0l-3sh

Prerequisite: EC122 or permission of the instructor

Social effectiveness of industries analyzed through measures of market structure, market conduct, and market performance.

EC 332 Government and Business

3c-0l-3sh

Prerequisite: EC122 or permission of the instructor

An analysis of the antitrust laws focusing on the maintenance of competition, the prohibition of unfair business conduct, and the achievement of desirable economic performance.

EC 333 Regulation of Industry

3c-0l-3sh

Prerequisites: EC121, 122 or permission of the instructor

Examines the theory and practice of regulation, emphasizing effects of regulation on economic performance and efficiency in the U.S.

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EC 334 Economics of Corporate Decisions

3c-0l-3sh

Prerequisites: EC121, EC122, MA121 or equivalent

Applications of economic theory using algebra, elementary statistics, and calculus to solve managerial optimization problems including problems of forecasting and risk.

EC 335 Public Finance

3c-0l-3sh

Prerequisites: EC121, 122 or permission of the instructor

Taxation and expenditure theory at the federal level; federal budget and debt considerations; public sector impact upon economy.

EC 336 State and Local Finance

3c-0l-3sh

Prerequisite: EC122 or permission of the instructor

Analysis of character and impact of state and local government revenue sources, expenditures, and fiscal systems; intergovernmental fiscal relations.

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EC 339 Economic Development I

3c-0l-3sh

Prerequisites: EC121, 122

Theory of growth; theory of economic development of underdeveloped countries.

EC 343 History of the Economic Development of the United States

3c-0l-3sh

Prerequisite: EC101 or 121 or 122

Applications of economic theory and models of economic development to the main patterns of U.S. postrevolutionary growth; emphasizes the history of economic development as a laboratory for testing economic hypotheses.

EC 345 International Economics I

3c-0l-3sh

Prerequisites: EC121 and 122 or permission of the instructor

Study of the microeconomic segment of international specialization and exchange, including theories of international trade and their application to commercial policies, historical survey and examination of current problems of international trade, and the institutional setting of international trade.

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EC 346 International Economics II

3c-0l-3sh

Prerequisites: EC121 and 122 or permission of the instructor

Study of the macroeconomic segment of international specialization and exchange, including analysis of balance of payments, exchange rates, and the mechanism of international economic and monetary adjustments; international macroeconomic policy; historical survey and examination of current international financial problems; and the institutional setting of international payments.

EC 350 Comparative Economic Systems

3c-0l-3sh

Prerequisite: EC101 or 121 or 122

Evaluation of premises, practices, institutions, and performance of capitalist, socialist, and mixed economies using economic theory and measurement.

EC 351 Russian Economic Development

3c-0l-3sh

Prerequisite: EC101 or 121 or 122

Study of the theory, institutions, and performance of the Russian economy including comparison of present and past patterns of economic development.

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EC 355 Statistics for Economists

3c-0l-3sh

Introduction to economic statistics, including frequency distributions, probability, distributions of random variables, functions of random variables, and tests of economic hypotheses.

EC 356 Introduction to Econometrics

3c-0l-3sh

Prerequisites: EC355 or its equivalent or permission of the instructor

Introduction to econometrics, including linear normal regression models of two or more random variables, special econometric problems, and solutions of simultaneous equations.

EC 360 Economics of Health Services

3c-0l-3sh

Analysis of the allocation of resources in the health sector using demand and supply techniques. Pricing and output decisions by physicians, hospitals, and other health agencies will be considered along with other current policy issues.

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EC 371 Economics of Labor Legislation

3c-0l-3sh

Prerequisite: EC330 or permission of the instructor

Economic background and effects of governmental regulation of labor relations, with emphasis on a detailed examination of National Labor Relations Act as amended.

EC 372 Economics of Wages and Employment

3c-0l-3sh

Prerequisite: EC330 or permission of the instructor

Analysis of wages and employment under various market structures. Also, analysis of the impact of labor market forces on wages, prices, and distributive shares.

EC 373 Economics of Human Resources

3c-0l-3sh

Prerequisite: EC101 or 122

Inquiry into economic demographics and related factors affecting growth, structure, and distribution of an economy's labor force into different occupations.

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EC 383 Urban/Regional Economics

3c-0l-3sh

Prerequisites: EC121 and 122

Location theory, land use patterns, urban economic/regional growth change, and urban economic problems and

policies.

EC 421 Macroeconomic Analysis

3c-0l-3sh

Prerequisites: EC121, 122 or permission of the instructor

Emphasizes aggregate income levels and problems of unemployment, inflation, and growth. Covers consumption and investment theories and the role of fiscal and monetary policy.

EC 422 Microeconomic Analysis

3c-0l-3sh

Prerequisites: EC121, EC122, MA121 or equivalent

Consumer behavior, theory of the firm, theory of exchange, market structures, distribution, general equilibrium theory, welfare economics.

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EC 480 Seminar

3c-0l-3sh

Prerequisite: Permission of the instructor

Seminar in selected economic issues or problems.

EC 481 Special Topics

var-1-3sh

Prerequisite: Permission of the instructor

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

EC 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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EC 493 Internship in Economics

var-2-12sh

Prerequisite: A student must be an economics major who has completed at least 12 semester hours in economics and who has at least a 2.5 grade-point average in the major and in all coursework.

The course provides on-the-job experience in economics positions with private and governmental employers. The student is also required to complete related academic work in the form of papers and selected readings. Number of credits earned will depend upon the nature of the job and amount of time involved in internship. A maximum of six of the credits earned in this course may be counted toward the 30 semester hours in economics requirement for Economics majors.

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Geography

Department of Geography and Regional Planning
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[GE101](#) [GE102](#) [GE104](#) [GE213](#) [GE230](#) [GE231](#) [GE241](#) [GE251](#) [GE252](#) [GE253](#) [GE254](#) [GE255](#) [GE256](#) [GE281](#) [GE313](#)
[GE314](#) [GE316](#) [GE331](#) [GE332](#) [GE333](#) [GE334](#) [GE336](#) [GE337](#) [GE340](#) [GE341](#) [GE342](#) [GE352](#) [GE371](#) [GE411](#) [GE412](#)
[GE415](#) [GE417](#) [GE431](#) [GE432](#) [GE440](#) [GE464](#) [GE481](#) [GE482](#) [GE493](#) [GE499](#)

GE 101 Introduction to Geography: Human Environment

3c-0l-3sh

Throughout history, human life and society have been shaped by the physical environment. Today, human activity threatens that environment. The relationship between humans and environment is examined in the context of the surface processes of weather, climate, plate tectonics, population distribution, and soil formation. Topics include agriculture, acid rain, global warming, deforestation, desertification, erosion, volcanism, and pollution.

GE 102 Geography of United States and Canada

3c-0l-3sh

The cultural landscape of North America is studied. The relationship between man and environment is examined and spatial patterns of environment, economy, society, and politics are considered.

GE 104 Geography of the Non-Western World

3c-0l-3sh

Relates theories of the discipline of geography to problems in the developing world. Emphasizes geographic components of dependency theory, indigenous versus industrial strategies of resource management; world systems theory, spatial legacies of colonialism; and development economics, theories of migration, and urban structure to explore causes, characteristics, and consequences of underdevelopment.

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GE 213 Cartography I

3c-0l-3sh

Introduces students to principles of thematic map construction. Emphasis is on the techniques of choropleth mapping and the production of scientific graphs and charts. (Also offered as RP213; may not be taken for duplicate credit)

GE 230 Cultural Geography

3c-0l-3sh

Introduction to cultural geography, including population, settlement, historical, urban, and political geography, human relationships with the natural environment, and the literature and methods of cultural geography.

GE 231 Economic Geography

3c-01-3sh

Introduction to geographic concepts, methods, and skills related to spatial patterns of production, consumption, and exchange over the earth's surface.

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GE 241 Physical Geography

3c-01-3sh

Introduction to physical geography including the study of weather, climate, soils, vegetation, landforms, energy cycles, and the hydrologic cycle.

GE 251 Geography of Pennsylvania

3c-01-3sh

Regions of Pennsylvania are examined in detail to identify man-environment relationships. Soils, topography, climate, vegetation, population, and economic patterns are studied.

GE 252 Geography of Latin America

3c-01-3sh

Impact of rapid population growth and economic development on the environment and spatial organization of Latin America are considered. The resource base and cultural heritage of the region are studied.

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GE 253 Geography of Europe

3c-01-3sh

Investigates relationships underlying land use, dominant international problems, boundary disputes, and regional complexes of the European continent.

GE 254 Geography of Russia and the Soviet Sphere

3c-01-3sh

Examines the Russian Republic and the former Soviet empire including the new nations emerging from the U.S.S.R. and former satellite nations. Settlement patterns, economics, cultures, and physical environments are studied. Contemporary topical emphasis is placed on efforts at transformation from communist to market economics and the geo-political status of the new nations. (Offered as Geography of U.S.S.R. prior to 1995-96)

GE 255 Geography of Africa

3c-01-3sh

Systematic survey of the physical, economic, political-historical, and cultural geography of the continent is followed by regional studies of countries and peoples in Africa, south of the Sahara.

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GE 256 Geography of East Asia

3c-01-3sh

Studies China, Japan, Korea, Outer Mongolia, Taiwan. Geographic background for development and wise use and restoration of natural resources are dealt with.

GE 281 Special Topics

3c-01-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students. (May also be offered as RP281; may not be taken as duplicate credit under same title)

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GE 313 Cartography II

3c-0l-3sh

Prerequisite: GE213

Gives an understanding of the compilation and use of maps and quantitative data. Develops skills essential to the construction of various types of maps. (Also offered as RP313; may not be taken for duplicate credit)

GE 314 Map and Photograph Interpretation

3c-0l-3sh

Maps and air photographs, along with remote sensing materials, permit inventory, and analysis of geologic, land use, urban development, and other landscape phenomena. The understanding of these materials and associated tools for their use is presented. (Also offered as RP314; may not be taken for duplicate credit)

GE 316 Introduction to Geographic Information Systems

3c-0l-3sh

Prerequisites: GE213, or equivalent, or permission of instructor

Automated methods for creating, maintaining, and analyzing spatial data are presented. Topics include 1) specialized GIS hardware and software, 2) vector vs. raster vs. object-oriented spatial data structures, 3) creation and manipulation of geographic data files, 4) data base design and management concepts, 5) spatial analysis, and 6) cartographic design. (Also offered as RP316; may not be taken for duplicate credit) (Offered as GE416, Computer-Assisted Cartography prior to 1995-96)

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GE 331 Population Geography

3c-0l-3sh

Spatial variations in numbers, characteristics, and dynamics of human population, models, and theoretical constructs relevant to demographic structures and processes are studied, as well as major world and regional problems.

GE 332 Urban Geography

3c-0l-3sh

Basic concepts of urban geography including site, situation, function, urban land use, urban structure, and urban hierarchy are introduced. Relationships between urban geography and urban planning are explored. (Also offered as RP332; may not be taken for duplicate credit)

GE 333 Trade and Transportation

3c-0l-3sh

Deals with the spatial aspects of transportation systems and their use. Circulation, accessibility, time and distance concepts, and trade patterns are discussed. (Also offered as RP333; may not be taken for duplicate credit)

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GE 334 Political Geography

3c-0l-3sh

Geographic factors and conditions are analyzed as they relate to the character and function of states. Political

institutions are evaluated in light of geographic conditions.

GE 336 Social Geography

3c-01-3sh

Spatial dimensions of the American society are the focus of this course. The distribution of various social groups and their impact on the landscape are considered.

GE 337 Historical Geography

3c-01-3sh

Studies of past geographies, geographical change through time, and historical perspectives on the cultural landscape are included. Historical geography of the United States is emphasized.

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GE 340 Geography of Fresh Water Resources

3c-01-3sh

Contributes to the students' understanding of fresh water as a resource. Fresh water is identified by its physical characteristics, by an inventory based on the types of storage within the hydrologic cycle, and by the values assigned to this resource by different cultures. Included in the course are problems relating to the consumptive and withdrawal uses of water, the role of water supply and water law, flooding and floodplain management, the sources of water contamination and pollution, and case studies of selected river basins.

GE 341 Climatology

3c-01-3sh

Elements of weather and climate and the climatic regions of the earth are studied in relation to other aspects of the physical and biological environment.

GE 342 Physiography

3c-01-3sh

Focuses on the study of landforms and water features. Types, distribution, and processes of formation are considered in relationship to the human landscape.

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GE 352 Planning Methods

3c-01-3sh

Prerequisite: RP350 or permission of instructor

Research, analytical design, and plan-making techniques in urban and regional planning. Examines basic items necessary to prepare urban and regional comprehensive plans. (Also offered as RP352; may not be taken for duplicate credit) (Offered as GE361, Planning: Basic Studies and Analysis prior to 1996-97)

GE 371 Aerospace Workshop

3c-01-3sh

Develops an appreciation and provides information related to aerospace activities and contributions; offers background for teaching aerospace courses; discusses aviation/space careers; and presents the basic principles of flying (usually including some flight instruction). Offered summer only.

GE 411 History of Geography

3c-01-3sh

Prerequisites: GE213, 230, 231, 241

Seminar dealing with history of the discipline, great ideas, leading problems, and unresolved issues.

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GE 412 Research Seminar

3c-0l-3sh

Prerequisite: GE411

This senior seminar and workshop is a capstone course that focuses on recent research in the major field. Students carry out a research project on a topic of local or regional importance. (Also offered as RP412; may not be taken for duplicate credit) (Offered as GE312, Research in Geography and Planning prior to 1996-97)

GE 415 Remote Sensing

3c-0l-3sh

Deals with air photographs, satellite imagery, thermal sensing, and radar imagery and their application to deriving information about the earth's physical and cultural landscapes. (Also offered as RP415; may not be taken for duplicate credit)

GE 417 GIS Applications Development

3c-0l-3sh

Prerequisites: GE316

A project-based class in which students learn the skills to develop and maintain a Geographic Information System. Through cooperative learning students will design and implement functional systems. Methods for designing GIS systems to user specification, data collection, data input, project management, and system documentation are covered. (Also offered as RP417; may not be taken for duplicate credit)

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GE 431 Geography of American Indians

3c-0l-3sh

Focuses on the historical/cultural geography of Native Americans. Population, resources, land use, development, settlement patterns, and other selected topics are covered.

GE 432 Geography of Crime

3c-0l-3sh

The geographical context of crime is examined from historical and contemporary viewpoints. Relevant concepts and analytical approaches are introduced.

GE 440 Conservation: Environmental Analysis

3c-0l-3sh

Problems of exploitation and utilization of regional resources such as soils, minerals, forests, and wildlife are considered in relation to population growth and regional planning and development.

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GE 464 Land Use Policy

3c-0l-3sh

Introduces students to and provides an overview of land use issues at the regional, state, and federal levels. Emphasis is placed upon the evolution of contemporary policy strategies, constitutional issues, and regional controversies involved in the regulation of metropolitan growth, central city decline, and management of public lands. (Also offered as RP464; may not be taken for duplicate credit)

GE 481 Special Topics

3c-0l-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students. (May also be offered as RP481; may not be taken for duplicate credit under same title)

GE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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GE 493 Internship

var-3-12sh

Professional learning experience with emphasis on application of academic background. Open to majors and minors in geography with a total of 57 semester hours and 15 hours in the major. See internship supervisor for additional information.

GE 499 Independent Study

var-3-6sh

Independent research and study under faculty direction. Interested students should approach department chairperson for information.

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Political Science

Department of Political Science
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[PS101](#) [PS111](#) [PS250](#) [PS251](#) [PS280](#) [PS281](#) [PS282](#) [PS283](#) [PS285](#) [PS300](#) [PS320](#) [PS321](#) [PS346](#) [PS350](#) [PS351](#) [PS353](#)
[PS354](#) [PS355](#) [PS356](#) [PS358](#) [PS359](#) [PS360](#) [PS361](#) [PS362](#) [PS370](#) [PS371](#) [PS377](#) [PS380](#) [PS382](#) [PS383](#) [PS384](#) [PS385](#)
[PS386](#) [PS387](#) [PS388](#) [PS389](#) [PS480](#) [PS481](#) [PS482](#) [PS493](#)

PS 101 World Politics

3c-0l-3sh

Analysis of contemporary (post-1945) state system and forces shaping the world in which we live. Student is given a framework within which to analyze contemporary international politics.

PS 111 American Politics

3c-0l-3sh

Introduction to American national government and politics, emphasizing Constitution, party system, Congress, Presidency, courts, and problems in national-state relations, civil rights, foreign policy, and social and economic policies.

PS 250 Public Policy

3c-0l-3sh

Emphasizes dynamics of government as they are evidenced in public opinion, pressure groups, political parties, and our governmental institutions; attention also directed toward the political-economical nexus within American society.

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PS 251 State and Local Political Systems

3c-0l-3sh

Institutions and processes of state and local governments, with special attention to Pennsylvania; emphasis on the nature of federalism, state constitutions, and role of state and local government in an urban society.

PS 280 Comparative Government I: Western Political Systems

3c-0l-3sh

Analyzes Western political systems with emphasis upon major contemporary democratic governments of Europe. Analyzes and compares their political cultures, political institutions, and political processes.

PS 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the

established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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PS 282 International Relations

3c-0l-3sh

Provides a conceptual framework for understanding sovereignty, nationalism, power, security, dispute settlement, and diplomatic, legal, economic, and military relations of nation-states. (Offered as PS281 prior to June, 1991)

PS 283 American Foreign Policy

3c-0l-3sh

Examines formulation and execution of American foreign policy, with attention to governmental institutions, mass media, interest groups, and public opinion; emphasizes contemporary problems.

PS 285 Comparative Government II: Non-Western Political Systems

3c-0l-3sh

Analyzes major non-Western political systems with emphasis upon authoritarian and totalitarian systems. Analyzes and compares in a systematic manner their political cultures, political institutions, and political processes.

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PS 300 Research Methods in Political Science

3c-0l-3sh

Prerequisite: PS101 or PS111

An examination of the application of the scientific approach to the investigation of social and political phenomena. Concentrates on approaches, methods, and computer tools. All political science majors and minors are strongly urged to enroll.

PS 320 International Law

3c-0l-3sh

Prerequisites: PS101, PS281, or permission of instructor

Study of the development, nature, and function of international law, including recent trends.

PS 321 International Organizations

3c-0l-3sh

Prerequisites: PS101, PS281, or permission of instructor

Inquiry into purposes, structures, and actions of contemporary international political organizations, such as United Nations, regional, and functional organizations.

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PS 346 Political Sociology

3c-0l-3sh

Prerequisites: PS111, SO151

Examines (a) who controls the state and state policy, (b) the role the state plays in stabilizing capitalism and protecting the power of the upper class, (c) the political activities of the middle and upper class, (d) labor, civil rights, welfare rights, and social movements in America. Cross-listed in Sociology as SO458: Political Sociology.

PS 350 The Presidency

3c-0l-3sh

Examination of the Office of President, with attention to constitutional foundations, evolution, structure, powers, and functions; some comparisons between presidential and parliamentary systems and between offices of President and Governor.

PS 351 Legislative Process

3c-0l-3sh

Functional study of legislative bodies and process of legislation, covering organization of legislative assemblies, operation of committee system, procedures, bill drafting, aides, and controls over legislation.

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PS 353 American Political Parties

3c-0l-3sh

The role of people, parties, and pressure groups in politics of American democracy; attention to sectional and historical roots of national politics, voting behavior, pressure group analysis, and campaign activities.

PS 354 Metropolitan Problems

3c-0l-3sh

Analyzes multiplicity of problems facing our metropolitan areas. Contemporary developments such as urban renewal, shrinking tax base, federal aid to cities, subsidized mass transit, municipal authorities, and political consolidation are examined.

PS 355 Intergovernmental Relations

3c-0l-3sh

Explores characteristics of federal systems of government, with emphasis on theories, origins, institutions, problems in intergovernmental relations in the United States, federal systems in other nations, and trends.

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PS 356 Mass Media in American Politics

3c-0l-3sh

Variant theories of the symbolic relationship between American politics and the press are examined in the light of the American colonial-national experience. The special Constitutional rights given to the media are explored, with particular attention to radio-TV.

PS 358 Judicial Process

3c-0l-3sh

Prerequisite: PS111

Explores nature and limits of judicial power, courts as policymaking bodies, selection of judges, decision process, external forces impinging on the courts, and role of Supreme Court in its relationship with Congress, the Presidency, and federalism.

PS 359 Constitutional Law and Civil Liberties

3c-0l-3sh

Prerequisite: PS111

Study of civil liberties and civil rights issues through leading Supreme Court decisions; topics treated include First Amendment rights, procedural due process and the Bill of Rights, and Equal Protection problems in civil rights.

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PS 360 Classical Political Thought

3c-0l-3sh

Restriction: Not for credit after PH323

The origins and development of Western thought from Plato and Aristotle through Cicero and Saint Aquinas. The focus is especially on political participation as a way of life, the unity of political and moral conceptions in premodern political thought, and the relationship between order and justice.

PS 361 Modern Political Thought

3c-0l-3sh

Covers the major representatives of modern political thought since the Renaissance. Follows the development of the specifically modern notion of the state and political action through the works of Machiavelli, Hobbes, Locke, Rousseau, Marx, and Lenin. Emphasis on the "instrumentalist" state and the idea of a political science.

PS 362 American Political Thought

3c-0l-3sh

Covers a variety of American political ideas from the Puritans through recent radical and conservative critiques of American liberal democracy. Focus on the continuing development of the idea of individual rights, the political theory of the Constitution, and the tension between classical liberalism and popular rule.

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PS 370 Introduction to Public Administration

3c-0l-3sh

Theories of organization and structural organization, personnel processes, executive functions, financial administration, the politics of administration, public relations, and problems of democratic control of bureaucracy.

PS 371 Issues in Public Administration

3c-0l-3sh

Intensive study of the role of federal agencies and their administrators in determining and developing public policy. Public administration in practice is emphasized by utilizing case studies.

PS 377 Political Behavior

3c-0l-3sh

Prerequisites: PC101, PS111

An interdisciplinary course which investigates the psychological bases of political behavior. Cross-listed in Psychology as PC377 Political Behavior.

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PS 380 Soviet Politics

3c-0l-3sh

Essential features of Communist party and government of the former U.S.S.R., including geographical and historical background and ideological and theoretical foundations. PS280 should be taken prior to this course. (Course content is in revision to reflect changing structure.)

PS 382-387 Political Systems

3c-0l-3sh

Intensive, comparative study of the government and politics of a selected region. Suggested prerequisites: PS280 and/or 285; PS382 Africa; PS383 Asia; PS384 Middle East; PS385 Central and Eastern Europe; PS387 Latin America

PS 388 Political-Military Strategy

3c-0l-3sh

Prerequisites: PS281 or PS283 or MS101-102

Deals with national security problems including decision making and budgeting, levels of strategy, the utility of force, and the impact of the military on American society.

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PS 389 Developing Nations

3c-0l-3sh

Suggested prerequisites: PS280 and/or 285

Political characteristics of emerging nations; impact of economic and social change upon political structure; evolving patterns of political development; and techniques of nation-building.

PS 480 Political Science Seminar

3c-0l-3sh

Readings and written assignments on a specific topic determined by the instructor in charge.

PS 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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PS 482 Independent Study

var-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

PS 493 Political Science Internship

var-2-12sh

Prerequisites: 9 sh in Political Science with 2.0 QPA; PS111; approval of internship director and chairperson. Practical experience in government and politics. "Log" and research project required. Course grade determined by the instructor. Maximum of 6sh applied to minimum in major; maximum of 3sh applied to minimum in minor.

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Psychology

Department of Psychology
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[PC101](#) [PC280](#) [PC290](#) [PC291](#) [PC310](#) [PC311](#) [PC312](#) [PC315](#) [PC320](#) [PC321](#) [PC322](#) [PC330](#) [PC331](#) [PC335](#) [PC341](#) [PC342](#)
[PC345](#) [PC350](#) [PC355](#) [PC356](#) [PC371](#) [PC372](#) [PC374](#) [PC375](#) [PC376](#) [PC378](#) [PC379](#) [PC390](#) [PC410](#) [PC411](#) [PC421](#) [PC425](#)
[PC450](#) [PC480](#) [PC481](#) [PC482](#) [PC493](#)

PC 101 General Psychology

3c-0l-3sh

An introduction to the scientific study of behavior and mental processes.

PC 280 Psychological Inquiry

3c-0l-3sh

Prerequisites: PC101, Psychology minors

Introduces students minoring in Psychology to issues central to carrying out and interpreting empirical research in the field. Students will become more sophisticated consumers of empirical research findings. Students who have successfully completed PC290 are not permitted to take this course for credit.

PC 290 Research Design and Analysis I

3c-2l-4sh

Prerequisites: PC101, MA217

A laboratory course devoted to designing, conducting, and evaluating results of psychological experiments.

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PC 291 Research Design and Analysis II

3c-2l-4sh

Prerequisites: PC101, "C" or better in PC290

A continuation of Research Design and Analysis I.

PC 310 Developmental Psychology

3c-0l-3sh

Prerequisite: PC101

Comprehensive study of all factors that contribute to human development from conception to death, particularly as they relate to psychological development of individual. A survey course directed at students not planning to take PC311, 312, or 373. Students may receive credit towards the Psychology major or minor for only one of PC310, PC311, or PC315.

PC 311 Child Psychology

3c-0l-3sh

Prerequisite: PC101

Study of factors that influence total development and behavior of child. Current theories and research are considered, with focus upon optimum development of individual. Credit toward a major or minor in psychology will not be given for both PC310 and 311.

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PC 312 Adult Development and Aging

3c-0l-3sh

Prerequisite: PC101

A survey of physiological, cognitive, emotional, and social issues affecting the young adult, the middle-aged, and the elderly. Includes an examination of significant adult life crises.

PC 315 Experimental Development Psychology

3c-21-4sh

Prerequisite: PC280 or PC290

The course will study human development from conception to death with emphasis on the physical, cognitive, and emotional domains. Students will be involved in observation and data collection.

PC 320 Personality

3c-0l-3sh

Prerequisite: PC101

Provides comparative analysis of major representative traditional and contemporary theories of personality.

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PC 321 Abnormal Psychology

3c-0l-3sh

Prerequisite: PC101

The description, causes, and treatment of behaviors labeled abnormal in our society are studied from experimental and clinical points of view.

PC 322 Introduction to Psychological Measurement

3c-0l-3sh

Prerequisites: PC101, MA217

Survey of psychological measurement techniques, with emphasis on theoretical assumptions underlying these techniques and discussion of interpretation and limitations of measuring instruments.

PC 330 Social Psychology

3c-0l-3sh

Prerequisite: PC101

The study of the effects of the social environment on human behavior. Topics include perception of person, attitude formation and change, and small-group interaction. Students may not receive credit toward psychology major or minor for both PC330 and PC335.

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PC 331 Environmental Psychology

3c-0l-3sh

Prerequisite: PC101

The study of the relationship between human behavior and its environmental context. Emphasis on the physical environment, both natural and built.

PC 335 Experimental Social Psychology

3c-21-4sh

Prerequisite: PC280 or PC290

A laboratory course in the effects of the social environment on human behavior. Topics include perception of persons, attitude formation and change, and small-group interaction. Includes experience with social psychological research methods. May not be taken for credit by students who have completed PC330.

PC 341 Conditioning and Learning

3c-21-4sh

Prerequisites: PC101, 290

Examination of the basic principles of learning and related phenomena; discussion of classical conditioning, discrimination learning, and aversive control of behavior.

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PC 342 Human Cognition: Memory and Thinking

3c-21-4sh

Prerequisites: PC101, 290

Study of methods and findings in areas of human memory and human information processing. Students may not receive credit towards the psychology major or minor for both PC342 and PC345.

PC 345 Introduction to Human Cognition

3c-01-3sh

Prerequisite: PC101

This course is designed to provide an overview of cognitive psychology. The Information Processing Model is contrasted with its predecessor, Behaviorism, and its contemporary challenger, Connectionism.

PC 350 Physiological Psychology

3c-21-4sh

Prerequisites: PC101, 290

Study of the relationship between behavior and the anatomy and physiology of the nervous system. Students may not receive credit towards the Psychology major or minor for both PC350 and PC356.

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PC 355 Comparative Psychology

3c-01-3sh

Prerequisite: PC101

Survey of animal behavior patterns and control mechanisms including learning, development, communication, and social behavior. Emphasis is on the relationship of the animal to its environment and on the relationship of animal models to human behavior.

PC 356 Biopsychology

3c-01-3sh

Prerequisites: PC101

Study of the relationship between behavior and the anatomy and physiology of the nervous system.

PC 371 Human Motivation

3c-0l-3sh

Prerequisite: PC101

Systematic study of how behavior is initiated, sustained, directed, and terminated. Current theories in this area are critically reviewed.

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PC 372 Drugs and Behavior

3c-0l-3sh

Prerequisites: PC101 and junior standing or permission

Survey of the current knowledge concerning the actions of drugs. Topics will include legal and social issues surrounding drug use, hazard potential of commonly used drugs, review of current theories and issues regarding the use of drugs in psychotherapy, and consideration of treatment approaches for addiction.

PC 374 Stress and Coping

3c-0l-3sh

Prerequisite: PC101

Fundamental concepts and findings in stress and stress-related disorders. Relationships of stress to disease and methods for coping with stress are presented.

PC 375 Mass Media and Behavior

3c-0l-3sh

Prerequisites: PC 101 and junior or senior status

Theory and research on the influence of the mass media on human behavior and attitudes. Topics include: the effects of news and political advertising on public opinion; the effects of racist and sexist portrayals; and the effects of violence and pornography on aggressive behavior. (Also offered as CM375; may not be taken for duplicate credit)

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PC 376 Psychology of Health Behavior

3c-0l-3sh

Prerequisite: PC 101

An examination of the role of behavior factors in health status with a strong focus on preventive health behaviors and the role of the psychologist in promotion of health-related behavioral changes.

PC 378 Psychology of Death and Dying

3c-0l-3sh

Prerequisite: PC101

Theories and research which delineate the psychological factors affecting the dying person as well as those persons close to one who is dying are discussed.

PC 379 Psychology of Human Sexuality

3c-0l-3sh

Prerequisite: PC101

Provides an overview of the psychological issues and research relevant to sexuality with an emphasis on gender roles. Social, psychological, and gender perspectives are used to examine a number of topics, including contemporary sexual attitudes, sexual response, sexual relationships, sexual dysfunction, sexual variations, sexual preference, and sexual violence. Research pertaining to each topic is presented. Students are encouraged to critically evaluate research and theory and to make connections between the material and their personal experience.

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PC 390 Industrial-Organizational Psychology

3c-0l-3sh

Prerequisites: PC101, MA214/217

The study of psychological principles in work organizations; application of psychological theory to the understanding and explanation of individual behavior and experience in work organizations. May not be taken for credit by students who successfully completed PC425. (Formerly PC420)

PC 410 Historical Trends in Psychology

3c-0l-3sh

Prerequisite: PC101, junior or senior standing or permission

Comprehensive overview of historical antecedents of contemporary psychology with emphasis on their implications for future developments in the field.

PC 411 Psychology of Women

3c-0l-3sh

Prerequisites: PC101, junior or senior standing or permission of the instructor

A critical examination of the assumptions about women which are held by the discipline of psychology, considering both current research and individual experience. The psychological effects of socialization on sex role identity, achievement, interpersonal power, mental health, and critical incidents in female development are discussed in the context of relevant concepts from developmental and social psychology.

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PC 421 Psychology of Work

3c-0l-3sh

Prerequisite: PC291

The analysis, measurement, prediction, and development of human aptitude, ability, and performance in work and employment situations.

PC 425 Experimental Organizational Psychology

3c-21-4sh

Prerequisite: 12 credits of psychology (including PC290, beyond PC101)

Introduces the student to theory, research, and methods in the investigation of human behavior and experience in organizations. Both classical and current literature in the field are discussed. In addition to lecture, students will conduct empirical research projects.

PC 450 Introduction to Clinical Psychology

3c-0l-3sh

Prerequisites: PC101, 320, 321, and permission of instructor

Overview of clinical psychology, with emphasis on clinician's use of methods of evaluation and on treatment and modification of behavior.

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PC 480 Honors Seminar in Psychology

3c-0l-3sh

A seminar in the graduate tradition with a specialized topic. May be taken more than once to a maximum of 6sh.

PC 481 Special Topics in Psychology

var-1-3sh

Prerequisites: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students. May be taken more than once to a maximum of 6sh.

PC 482 Independent Study in Psychology

var-1-3sh

Prerequisites: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office

Individual students pursue their particular interests in psychology in consultation with a member of the staff. May be taken more than once to a maximum of 6sh. Approval is based on academic appropriateness and availability of resources.

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PC 493 Psychological Practicum

var-1-12sh

Prerequisites: PC101 and department consent

Under supervision of psychology department, selected students receive experience in application of psychological techniques. May be taken more than once to a maximum of 12sh.

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Sociology

Department of Sociology
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[SO151](#) [SO231](#) [SO233](#) [SO251](#) [SO271](#) [SO272](#) [SO273](#) [SO274](#) [SO281](#) [SO286](#) [SO301](#) [SO302](#) [SO303](#) [SO314](#) [SO320](#)
[SO333](#) [SO335](#) [SO336](#) [SO337](#) [SO340](#) [SO341](#) [SO342](#) [SO345](#) [SO348](#) [SO352](#) [SO357](#) [SO361](#) [SO362](#) [SO363](#) [SO380](#)
[SO421](#) [SO427](#) [SO428](#) [SO447](#) [SO448](#) [SO456](#) [SO457](#) [SO458](#) [SO459](#) [SO480](#) [SO481](#) [SO482](#) [SO483](#) [SO493](#)

SO 151 Principles of Sociology

3c-0l-3sh

Scientific study of structure and functioning of human societies, with special attention to factors responsible for the organization and transformation of sociocultural systems. Specific course content varies from one instructor to another.

SO 231 Contemporary Social Problems

3c-0l-3sh

Exploration of some pressing problems currently endemic to Western society. Problems are defined and solutions explored in light of historical, political, economic, social, and anthropological data.

SO 233 Language and Culture

3c-0l-3sh

Focuses on social and cultural functions of language. Particular emphasis on analysis of non-Western languages. (Previous title: Cultural Symbolism: Language in Culture and Society)

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SO 251 Sociology of Human Sexuality

3c-0l-3sh

In-depth analysis of a formerly taboo topic, human sexuality. Current information from biological, psychological, and sociological research on human relationships is presented to provide a foundation for self-understanding and societal values.

SO 271 Cultural Area Studies: Africa

3c-0l-3sh

Explores the cultural diversity of the continent of Africa. The first unit examines the historical processes which shape modern society, including the formation of indigenous African empires, the evidence for trade routes, slave trading, and colonialism. The second unit examines the nature of African traditional societies, including analyses of forager and agricultural groups. The last unit covers issues of contemporary development in Africa such as famine and agricultural policy, the status of women in economic development, and apartheid. Reading includes ethnographic and historical accounts of African society as well as selections by African writers on the issues of contemporary society. (Also offered as AN271; may not be taken for duplicate credit)

SO 272 Cultural Area Studies: China

3c-0l-3sh

Designed to assist the student in developing an understanding of contemporary China. While the course will begin with prehistoric and historic aspects of China, the focus will be on contemporary issues presented in the context of sociological theory. Specific Chinese cultural components that will be investigated include values, attitudes, norms, social organization, linguistics, and folklore. (Also offered as AN272; may not be taken for duplicate credit)

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SO 273 Cultural Area Studies: Southeast Asia

3c-0l-3sh

An introduction to the peoples and cultures of Southeast Asia. Prehistory and the development of indigenous states in Southeast Asia and analysis of impact of world religions, such as Islam, and Western colonialism. Also examines modern hunter-gatherer and farming societies and discusses contemporary issues in social and economic change, including the "Green Revolution," tropical deforestation, the struggle of ethnic minority tribal peoples, and the plight of Indochinese refugees. (Also offered as AN273; may not be taken for duplicate credit)

SO 274 Cultural Area Studies: Latin America

3c-0l-3sh

An introduction to the peoples and cultures of Latin America. Focuses on the prehistory and development of pre-Columbian complex societies in Mesoamerica and the Andes and analyzes the impact of European colonialism on these major regions. Also examines contemporary issues, such as civil wars, economic development, rural-urban migrations, and migration and immigration of Latin American peoples into the United States. (Also offered as AN274; may not be taken for duplicate credit)

SO 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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SO 286 Marriage, Kinship, and the Family

3c-0l-3sh

Sociological and anthropological study of patterns of marriage, kinship, and family life, with emphasis on the relationship between family patterns and other social institutions. Topics covered include the family and marriage in historical and comparative perspective; worldwide patterns of gender stratification; incest and incest avoidance; class and race contexts of family patterns; mate selection and love; parenthood and child rearing; domestic and sexual violence; alternative family lifestyles; and the current crisis and possible future of the family. Intended for a broad audience but also open to sociology and anthropology majors and minors. (Also offered as AN286; may not be taken for duplicate credit)

SO 301 Clinical Sociological Theory

3c-0l-3sh

Prerequisite: SO151

Develops an understanding of how to use micro and macro sociological theory to analyze, assess, and diagnose human problems. Employing case studies, prepares students to do casework and help solve interpersonal, group, and organizational problems. Also seeks to acquaint students with the broader professional activity of human services.

SO 302 Clinical Sociological Practice

3c-01-3sh

Prerequisite: SO301

Prepares the student to effect constructive change within individuals, groups, families, and communities. Draws its analysis, diagnosis, and methods from the foundations of sociological theory at the level of intervention with clients.

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SO 303 Social and Cultural Change

3c-01-3sh

Prerequisite: SO151

Exploration of current theoretical perspectives on social and cultural change. Special attention given to planned change at the local or regional level.

SO 314 Native Americans

3c-01-3sh

Survey of culture history and culture area characteristics of Indians of North America. Detailed study of representative groups related to historical, functional, and ecological concepts. (Previous title: Ethnology of North American Indians)

SO 320 Sociological Theory

3c-01-3sh

Prerequisites: SO151 and second-semester sophomore standing

Detailed survey of the historical development of sociological theory from the mid-nineteenth century to the present. Treats the classical theorists Marx, Durkheim, and Weber, and such contemporary theoretical schools as functionalism, Marxian and Weberian conflict theory, cultural materialism, social evolutionism, rational choice theory, symbolic interactionism, ethnomethodology, sociobiology, structuralism, and postmodernism. Students are encouraged to take this course in the second semester of their sophomore year or during their junior year.

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SO 333 Delinquency and Youth

3c-01-3sh

Prerequisite: SO151

Study of social and cultural factors involved in various youth lifestyles, including delinquency. Cross-cultural and historical approach used in a review of social norms, social control, and socialization institutions and community-based programs for rehabilitation.

SO 335 Alcohol and Drug Abuse

3c-01-3sh

Prerequisite: SO151

Examines the social issues and problems of alcohol and drug misuse in American society. Legal and illegal substances will be considered, and the causes of substance abuse as well as alternatives will be examined.

SO 336 Sociology of the Family

3c-01-3sh

Prerequisite: SO151

Sociological study of the family from various theoretical viewpoints. Special emphasis will be placed on the contemporary American family. A variety of topics will be covered such as mate selection, power relationships and roles in the family, parent-child interaction, marital satisfaction, divorce, and others.

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SO 337 World Societies and World Systems

3c-01-3sh

Prerequisite: One of the following: AN110, EC101 or 121, GE230, HI202, PS101 or 282, SO151

Detailed analysis of the evolution of human societies, with special emphasis on the modern world system of societies that began to emerge in the sixteenth century and that has since expanded to include the entire globe. Topics include societies during the preindustrial era; the emergence of modern capitalism in the sixteenth century; relations between developed and less-developed societies in the modern world; the ascent and decline of nation-states in the modern world; the current plight of the Third World; the rise and demise of socialism in the twentieth century; and various scenarios for the human future.

SO 340 Sociology of Industry

3c-01-3sh

Prerequisite: SO151

Examination of industrial organizations and their environments. Production systems analyzed in terms of different forms of organization, e.g., bureaucratic, power-equilibrium, and worker-participation. Special attention paid to who defines production, how such definitions are legitimized, and how constraints are placed on such definitions by union and other political organizations.

SO 341 Sociology of Education

3c-01-3sh

Prerequisite: SO151

Examines the place of education in society. Special attention to the development of education in America and its relation to political and economic phenomena. Some attention given to education in other industrial and agrarian societies.

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SO 342 Social and Cultural Aspects of Health and Medicine

3c-01-3sh

Prerequisite: 6sh in Sociology or Anthropology

Review of the fields of medical sociology and anthropology. Focuses on such topics as health and illness in cross-cultural context, aging, social and psychological aspects of pain, and social organization of health facilities and services. Definitions of limits of "life" and "death" in context of holistic health.

SO 345 Interpersonal Dynamics

3c-01-3sh

Prerequisite: SO151

Study of the interaction between and among individuals and groups in various social settings. Emphasis on self-understanding, small groups, socialization, social influence and compliance, person perception, collective behavior, and mass communication.

SO 348 Sociology of Work

3c-01-3sh

Prerequisite: SO151

Focuses upon the sociological examination of the various forms of labor, employment, and unemployment present in industrial societies. Examines the nature of work and unemployment in the modern era and how these forms are being transformed in the present period.

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SO 352 Sociology of Religion

3c-01-3sh

Prerequisite: SO151

Nature, role, and function of religious phenomena in human societies will be explored with special attention to certain critical issues as they relate to religion and politics and religion and economics. Some fundamental modes of religious life including ritual forms and mythic expressions will be examined. Other themes such as revitalization movements and processes of secularization in modern societies will be included.

SO 357 Sociology of Aging

3c-01-3sh

Prerequisite: SO151

Introduction to various problems faced in the process of growing older. Attitudes of society toward elderly and social and cultural impact of an aging U.S. population examined.

SO 361 Social Stratification

3c-01-3sh

Prerequisite: SO151

Examines leading perspectives in the major sociological subfield of social stratification. Attention drawn to different ways of ranking people in human societies, issues concerning the distribution of income and wealth, the role of political power in determining who gets what, and the causes and consequences of social inequality for specific groups. (Offered as SO435 prior to 1993-94)

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SO 362 Racial and Ethnic Minorities

3c-01-3sh

Prerequisite: SO151

Examines from an historical and comparative perspective the experiences of minority groups, with special emphasis on economic and political domination, stereotyping, prejudice, and discrimination. Techniques of majority group domination and the responses of minority groups are discussed. Various reasons for the different rates and patterns of assimilation are explored.

SO 363 Sociology of Sex and Gender

3c-01-3sh

Prerequisite: SO151

Explores current perspectives on the situations faced by women and men, primarily in the United States. Examines issues such as the impact of sex and gender on socialization, the construction of knowledge, intimate relationships, paid work, family relationships, health, and issues of change. (Offered as SO354 prior to 1993-94)

SO 380 Social Research Methods

3c-01-3sh

Prerequisites: 9sh in sociology and junior standing

Examines diverse research designs used in the social sciences, i.e., survey, field study, experiment, documentary, and existing statistical data. Focuses both on logic and practice of social research. Students choose a number of mini-projects or a major research project. (Offered as SO455 prior to 1993-94)

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SO 421 Sociology of Mass Media

3c-01-3sh

Prerequisite: SO151

Examines the development of mass media as dominant cultural forms within advanced industrial societies in the twentieth century. Emphasizes critical understanding of the sociohistorical development, the underlying assumptions, and the social implications of the advance of mass media.

SO 427 Spouse Abuse

3c-01-3sh

Prerequisite: SO151

Considers the range of theoretical explanations for the pervasive violence between husband and wife. Particularly examines the research on wife battering and the implications of this research for programs and policies assisting both the victim and the abuser.

SO 428 Child Abuse

3c-01-3sh

Prerequisite: SO151

Examines the prevalence, causes, and social implications of physical, sexual, emotional, and neglect forms of child abuse in society. Child abuse will be studied from the individual, family, and societal level perspectives. Potential intervention strategies will also be considered.

SO 447 Modern Sociological Theory

3c-01-3sh

Prerequisites: 9sh in sociology and junior standing

Detailed examination of major theoretical issues, perspectives, and controversies occupying center stage in contemporary sociological analysis. Major attention to nature and logic of social theorizing, primary macro-level theoretical perspectives which compete for attention in contemporary sociology, and the nature of new directions currently being taken within sociological theory.

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SO 448 Social Policy

3c-01-3sh

Prerequisite: SO151

Focuses on the formation of social welfare programs in the U.S., current social policy issues, and debates between conservative, liberal, and social democratic policy analysts. Special attention drawn to various social problems and a range of social policies designed to ameliorate the economic disadvantages of single individuals, single parents, and two-parent families. Also devoted to understanding the relationship between social policy, research, and implementation.

SO 456 Field Research Methods

3c-01-3sh

Prerequisite: SO455 or permission

Examination of methods and practice of sociology and anthropology in the areas of qualitative and field methods. Concentrates upon the development of field notes, interviewing techniques, participant observation, etc. Qualitative methods of sampling and analysis will include theoretical sampling and analytic induction. Brief background research into community, organizational, and group structure will also be emphasized.

SO 457 Computer Use in Sociology

3c-01-3sh

Prerequisite: Permission of the instructor

Introduces students to use of microcomputers in social science research and practice. Uses a variety of software for clinical sociological applications as well as quantitative analysis of social scientific data. These include client

information systems, field notes and downloading such notes, exchanging information between agencies, and statistical analyses for program evaluation and forecasting.

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SO 458 Political Sociology

3c-0l-3sh

Prerequisite: SO151

Examination of the social context of power and politics, with special reference to such topics as who controls the state and state policy; the role of the state in stabilizing capitalism and protecting the power of the upper class; political activities of the middle and upper classes; and labor, civil rights, and welfare rights social movements in America. Especially considers the problems of conducting and implementing social policy research for social change. Cross-listed in Political Science as PS346: Political Sociology.

SO 459 Development of Social Services

3c-0l-3sh

Prerequisite: Permission of the instructor

Examination of ideological and institutional conditions which shape health, unemployment, social security, and welfare services.

SO 480 Sociology Seminar

var-1-3sh

Prerequisite: SO151

Seminar for advanced students devoted to an intensive analysis of specialized issues within the discipline.

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SO 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

SO 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office

An opportunity for students to engage in an in-depth analysis of some topic through consultation with a faculty member. A semester project ordinarily expected. Approval is based on academic appropriateness and availability of resources.

SO 483 Readings in Sociology

var-1-3sh

Prerequisite: SO151

Directed readings on special topics in sociology.

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SO 493 Internship in Sociology

var-3-12sh

Prerequisite: Permission of the instructor

Supervised experience in public or private organizations that extends and complements coursework at the university.

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Health and Physical Education

Department of Health and Physical Education
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

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HP 117 Fitness-Swimming

0c-2l-1sh

Fundamentals and techniques of swimming and fitness.

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HP 119 Golf-Bowling

0c-2l-1sh

Fundamentals and techniques of golf and bowling.

HP 123 Folk and Square Dance I

0c-2l-1sh

Fundamentals and techniques of folk and square dancing.

HP 124 Fitness Through Dance

0c-2l-1sh

A physical fitness development course for men and women that employs a combination of exercises and dance techniques performed to music.

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HP 126 Resistive Exercises

0c-2l-1sh

Fundamentals and techniques of progressive resistive exercises.

HP 127 Fencing

0c-2l-1sh

Fundamentals and techniques of fencing.

HP 128 Golf

0c-21-1sh

Fundamentals and techniques of golf.

[Back to Top](#)**HP 134 Bowling**

0c-21-1sh

Fundamentals and techniques of bowling.

HP 142 Foundations of Health, Physical Education, and Sport

3c-01-3sh

Historical, philosophical, and psychosocial foundations of health and physical education are introduced. Specific emphasis is given to scientific theories and principles in such areas as health promotion and behavioral change, exercise physiology, motor development, kinesiology, and motor learning.

[Back to Top](#)**HP 143 Health and Wellness**

3c-01-3sh

Introduces the student to the major components of wellness: contemporary nutrition issues as they relate to personal food choices, physical fitness, stress management, sexually transmitted diseases, AIDS, and substance abuse. Completion of HP143 fulfills the Liberal Studies Health and Wellness requirement.

HP 145 Tennis

0c-21-1sh

Fundamentals and techniques of tennis.

[Back to Top](#)**HP 160 Downhill Skiing**

1sh

The cognitives and skills necessary for beginning downhill skiing.

HP 162 Scuba Diving

0c-21-1sh

Designed to teach necessary skills and proper use of equipment for underwater swimming. Tanks, regulators, weights, and special equipment furnished. Student must purchase a mask, fins, and snorkel (approximately \$15). Includes theory as well as practical work.

HP 165 Lifeguarding

0c-21-1sh

Prerequisites: Departmental consent and Advanced Swimmer

Designed for professional lifeguards. Includes lifeguarding techniques for pools and fresh and saltwater beaches. Red Cross certification (Pittsburgh Division) granted upon satisfactory completion of course requirements.

[Back to Top](#)**HP 166 Basic Smallcraft**

0c-21-1sh

Prerequisite: Intermediate swimming ability

Designed to introduce the use of the canoe, paddle board, and sailboat. Emphasis is placed on the development of boating skills, safety rescue, and survival procedures. Red Cross smallcraft certification is granted upon successful completion of the course.

HP 167 Basic Synchronized Swimming

0c-2l-1sh

Prerequisite: Intermediate swimming ability

Activity course designed to assist students in the development of beginning synchronized swimming skills. YMCA certification is granted upon successful completion of course requirements.

HP 200 Fundamentals of Physical Activity

1c-2l-1sh

A foundation course designed for the purpose of training in the analysis and performance of the fundamental skills for subsequent motor behavior as they relate to games, sports, and dance. The opportunity to refine powers of observation through principles of efficient and effective movement fundamentals is provided. Individual data profile charts of performance will be completed for future reference.

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HP 210 Motor Development

2c-0l-2sh

Corequisite: HP200

A study of the processes of growth and development and their effects upon human motor behavior across the lifespan. Includes changes during physical growth, maturation and aging, and subsequent effects upon cognitive, perceptual, and physiological performance, both individually and within a sociocultural context.

HP 211 Dance, Rhythmic Activities, and Gymnastics

4c-2l-3sh

Prerequisite: HP200

Designed to provide an aesthetic and kinesthetic movement experience which will prepare the student as a teacher of basic movement in a variety of situations. The dance section will include creative movement, rhythms, and square, folk, and contemporary dance. Gymnastics will include basic tumbling, stunts, and apparatus skills.

HP 212 Team Sports

4c-2l-3sh

Prerequisite: HP200

Introduces students to the history, current status, and teaching similarities among team sports. Also includes materials and methods unique to each sport.

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HP 213 Individual and Dual Sports and Adventure Activities

4c-2l-3sh

Prerequisite: HP200

Provides historical and current status of individual and dual sports, as well as adventure activities. Includes skill development, analysis of skilled performance, and strategies for planning and implementing instructional programs.

HP 221 Human Structure and Function

3c-0l-3sh

Anatomical organization of the human body, surveyed in sufficient depth to prepare students for physiology,

biomechanics, and adaptive physical education.

HP 230 Aerobic Fitness

1c-2l-2sh

An opportunity to participate in a variety of aerobic activities; will aid fitness leaders in developing and implementing several types of aerobic programs; will offer current information on aerobics as preventive medicine.

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HP 242 Emergency Health Care

1c-2l-1sh

American Red Cross Standard, Advanced, and Instructor's certification and Multimedia Instructor's certification awarded upon successful completion of this course.

HP 246 Biomechanics

3c-0l-3sh

Prerequisite: HP221

Study of the relationship between mechanical and physical principles and human movement.

HP 251 Foundations of Safety and Emergency Health Care

3c-0l-3sh

Focuses on accident prevention, injury control, and first responder's skills. Emphasizes identification of causes of accidents, recommended countermeasures, and mitigation. American Red Cross certifications are issued in (1) standard first aid, (2) community CPR, (3) instructor of standard first aid, and (4) instructor of community CPR.

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HP 252 Introduction to the Driving Task

2c-2l-3sh

Provides an in-depth treatment of operating a motor vehicle competently in all major variations and under most conditions encountered in traffic. A competent operator is one who performs the total driving task knowledgeably and skillfully and demonstrates full understanding and application of identification, prediction, decision, and execution process.

HP 261 Water Safety Instructor

0c-2l-1sh

Prerequisites: Departmental consent and lifesaving certification

Emphasizes the teaching aspect of skills, techniques, and attitudes necessary in all areas of swimming. Students successfully completing course are qualified to hold such positions as waterfront directors, aquatic directors, and other similar positions.

HP 263 Aquatics

0c-2l-1sh

Basic performance techniques in swimming strokes presented with special emphasis on teaching methodology, aquatic sports and games, water safety, skin diving, springboard diving, and other aquatic activities.

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HP 264 Advanced Aquatics

0c-2l-1sh

Swimming and rescue skills necessary to complete American Red Cross Senior Lifesaving Course. Emphasis placed upon a broad range of other aquatic experiences and teaching strategies.

HP 270 Instructor of Handicapped Swimming

0c-2l-1sh

Prerequisite: HP261

Concerned with the learning of skills used to teach swimming to exceptional children. All handicaps are considered. This course is important not only in physical education but also for the mentally retarded, rehabilitation education, agency personnel, postgraduate swimming education, YMCA Boys Clubs, community programs, private clubs, and industrial programs. The Red Cross certification Instructor of Swimming for the Handicapped is granted upon successful completion of the course. Summer only.

HP 271 Instructor of Scuba Diving

0c-2l-1sh

Prerequisite: HP262

Prepares instructors to teach skin and scuba diving. Emphasis is placed on teaching methods, use and mechanics of equipment, safety, diving physics and physiology, and advanced diving skills. Instructor of Scuba Diving certificate granted by the Professional Association of Diving Instructors upon successful completion of the course. Summer only.

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HP 272 Instructor of Canoeing

0c-2l-1sh

Prerequisite: HP266

Concerned with the learning of skills pertinent to teaching canoeing to beginners. All aspects of canoeing including paddling, repair of equipment, white water canoeing, safety, survival, and teaching techniques are presented. The Red Cross certification Canoeing Instructor is granted upon successful completion of the course. Summer only.

HP 273 Instructor of Sailing

0c-2l-1sh

Prerequisite: HP266

Concerned with learning of skills pertinent to teaching beginning sailing. All aspects of sailing are considered, including the elements of sailing, repair of equipment, racing, safety, and techniques of teaching. Summer only.

HP 274 Instructor of Infants and Preschoolers in Swimming

0c-2l-1sh

Prerequisites: HP261, instructor's consent

Methods course for preparation of swimming instructors in the knowledge and skills of teaching young children to swim. YMCA certification Instructor of the Very Young granted upon successful completion of course requirements. Summer only.

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HP 276 Coaching of Swimming

0c-2l-1sh

Prerequisite: HP261

A lecture-discussion methods course designed to prepare Physical Education majors for coaching of swimming. Emphasis is placed on training methods, officiating, nutrition, scientific principles, and meet strategy. Summer only.

HP 277 Coaching of Synchronized Swimming

1c-2l-2sh

Designed to go beyond the activity nature of Basic Synchronized Swimming (HP267). Students are involved in set design, costumes, selection of music, making props, selecting themes, and organizing a program. Summer only.

HP 279 Swimming Pool Maintenance and Chemistry

2l-0l-2sh

Prerequisite: HP264

A lecture-discussion course designed to teach fundamental water chemistry, filtration, treatment of water problems, winterization of outdoor pools, and pool management. Emphasis is placed on water testing and analysis of chemicals and bacteria. Summer only.

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HP 280 Aquatic Facilities Management

2l-0l-2sh

Prerequisite: HP264

An organizational and administrative course designed to prepare the aquatic professional for management of indoor and outdoor facilities. Includes facility design, safety procedures activity, and sport and recreational aspects. Summer only.

HP 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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HP 318 Preprofessional Experience I

3c-0l-1sh

Recommended Prerequisite: HP321

Prerequisite: Physical Education majors only

Students teach as assistants to a faculty member in two different activities, one in physical education (general education) and one in elementary physical education at the University School. Emphasis on unit development, class management, leadership skills, and evaluation.

HP 319 Preprofessional Experience II

var-3sh

Prerequisites: Advanced standing, departmental approval

Students may request an assisting/teaching/leadership assignment in certain university-related areas that may be either instructional or noninstructional in nature. Examples of such professional areas are adaptives, recreation, dance, coaching, aquatics, intramurals, administration, elementary, service or major classes, club activities, and assisting in laboratory or the training room.

HP 321 Methods in Elementary Health and Physical Education

3c-0l-3sh

Prerequisite: Junior standing

Guides the professional student in the development of competencies essential to teaching health and physical education at the elementary school level. Includes theories of instruction in health science, necessity of a safe and healthful school environment, and judicious utilization of school and community health resources and service, as well

as study of theories of and movement relevant to elementary school children. Observation, materials, methods of teaching, and opportunities for intern teaching provided.

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HP 325 School and Community Health

3c-01-3sh

Prerequisite: Junior standing

Introduces students to the role of school and community in protecting and promoting the health of its members. Topics include historical development of the concepts of health and health education, identification of national and community goals to reduce risk of disease and enhance health status, and the responsibilities of both school and community toward achieving these goals.

HP 333 Psychology of Coaching

2c-01-2sh

The goals of athletics in schools and communities; principles and responsibilities of the coach; current problems.

HP 335 Coaching and Managing of Athletic Programs

3c-01-3sh

Lecture course designed to prepare students for coaching or administering an athletic program. Emphasizes the professional preparation and responsibilities of a coach, the support and auxiliary personnel working under and with the coach, and the coach's responsibility to the athletes, plus the administrative responsibilities of coaching.

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HP 341 Evaluation in Health and Physical Education

3c-01-3sh

Prerequisite: Junior standing

Evaluation theory, instructional objectives, and cognitive test construction; technical and practical considerations in testing and interpretation of test results in both health and physical education.

HP 343 Physiology of Exercise

3c-01-3sh

Prerequisite: HP221

Physiological effects of exercise in humans. Major factors of diet, conditioning, physical fitness, maximum performance level, and fatigue are considered.

HP 344 Adapted Physical Education

3c-01-3sh

Prerequisite: HP246

Recognition of structural deviations, corrective exercises, and physical education programs for a wide range of handicaps.

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HP 345 Athletic Training I

3c-01-3sh

Prerequisite: HP221

Specifically designed to introduce students to the discipline of athletic training with emphasis in prevention, evaluation, management, and rehabilitation in sports medicine.

HP 346 Athletic Training Lab

2c-01-1sh

Should be taken concurrently with HP345

Provides sufficient opportunity for each student to develop proficient skills and techniques in the areas of evaluation, assessment, taping, and rehabilitation procedures.

HP 350 Health Aspects of Aging

3c-01-3sh

Prerequisites: PC101, SO151, and junior standing

Current theory and research related to gerontology will be introduced to increase students understanding of the physical and psychosocial dimensions of aging. Additionally, this course will emphasize lifestyle factors and disease prevention aspects of aging. Recommended for students who plan to work with older adults.

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HP 353 Driver Education Program Management

3c-01-3sh

Emphasizes the development, organization, and management of high school driver education from the standpoint of its historical development to its present programs designed to meet the demands of the highway transportation system. Special emphasis on the role of the teacher in conducting a high-quality program that will meet with student, parent, school, and community approval.

HP 354 Application of Driver Education Instructional Modes

2c-21-3sh

Prerequisites: HP251, 252, 353

Prepares prospective driver education teachers to plan, teach, and evaluate the four modes of driver education (classroom, on-road, simulation, and multiple-vehicle range). Teaching high school students in supervised laboratory sessions is provided.

HP 372 Health and Physical Education for Special Populations

2c-01-2sh

Prerequisite: EX220; junior level or above

Methods and techniques of teaching health and physical education to special populations will be explored. Designed primarily for students majoring in special education, course will focus on handicapping conditions, limitations imposed by such conditions, and the responsibility of the special education teacher working in the physical education setting.

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HP 375 Physiological Basis of Strength Training

3c-01-3sh

Designed to give the student the anatomical and physiological basis of muscle function. Students should also gain an understanding of changes that can be made through weight training and knowledge of programs that will bring about these changes. Opportunities for working with various types of equipment will be available.

HP 408 Guided Research Problem

var-2sh

Prerequisite: Permission of department chairperson

Selection and research of a problem pertinent to student interests and those of the professions of health, physical education, and recreation. Classes held on a seminar basis.

HP 410 Exercise Prescription

3c-0l-3sh

Prerequisite: HP343

Designed to teach individuals to write exercise prescriptions based upon a subject's tolerance for physical activity. Special emphasis on risk factors, techniques of evaluation, drugs, injuries, environmental factors, and motivation and their role in physical activity assessment.

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HP 411 Physical Fitness Appraisal

3c-0l-3sh

Involves the selection, administration, and interpretation of various tests for appraising the physical fitness levels of individuals. Information given concerning the various fitness components, and discussions held so that each student gains an understanding of the variables to be tested.

HP 412 Physical Activity and Stress Management

3c-0l-3sh

Acquisition of necessary understanding of anxiety and stress; their nature, place in society, and intervention strategies as they relate to physical activity.

HP 413 Physical Activity and Aging

3c-0l-3sh

Presents major aspects of physical activity, its importance to the older adult, and the organization of an activity program. Attention to physiology of physical activity, effects of activity on growth and aging, exercise prescription, flexibility, overweight and obesity, and motivational strategies.

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HP 426 Health Science Instruction

3c-0l-3sh

Health curriculum—K-12, methods and media of instruction in health science.

HP 430 The American Woman and Sport

3c-0l-3sh

Comprehensive, multidisciplinary analysis of the problems, patterns, and processes associated with the sport involvement of girls and women in our culture. Presents historical perspective with an emphasis on physiological, psychological, and sociocultural influences.

HP 441 Psychosocial Implications for Health and Physical Education

3c-0l-3sh

Prerequisite: Senior standing

A study of psychological and sociological influences, both theoretical and empirical, and their effects upon health and physical performance.

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HP 442 Seminar in Health, Physical Education, and Recreation I

3c-0l-3sh

Theory and philosophy of health, physical education, and recreation; current issues and problems; innovative and creative programs.

HP 447 Cardiopulmonary Resuscitation (CPR) Instructor

1c-11-1sh

Prerequisite: Basic CPR certification

Study of methods and skills necessary to certify instructors of cardiopulmonary resuscitation and multimedia first aid. Successful completion of requirements leads to certification by the American Health Association and the American Red Cross. Summer only.

HP 450 Curriculum and Programming in Sexuality Education

3c-01-3sh

Topics include anatomy and physiology of the human reproductive tracts, development, birth defects, contraception, venereal disease, and abortion. Not for credit toward degrees in Biology.

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HP 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

HP 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

HP485 Student Assistance Program Training

3c-01-3sh

Prerequisites: Junior standing and EP202

Introduces the student to the concept of Student Assistance Programs(SAP) in schools. Includes the history of SAP, current involvement in public education, and the educator's role as a SAP member. Provides an experiential basis for preparation to assume the role of a SAP member.

Note: Majors in the B.S. in Education-Health and Physical Education program will have first opportunity to enroll in class; any openings in the class will then be offered to Elementary and Secondary Education majors.

HP 493 Internship

var-3-12sh

Educational opportunity which integrates classroom experience with practical experience in community service agencies or industrial, business, or governmental organizations. Junior standing required.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Food and Nutrition

Department of Food and Nutrition
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FN110](#) [FN143](#) [FN145](#) [FN150](#) [FN151](#) [FN212](#) [FN213](#) [FN245](#) [FN281](#) [FN355](#) [FN357](#) [FN362](#) [FN364](#) [FN402](#) [FN410](#)
[FN430](#) [FN444](#) [FN447](#) [FN455](#) [FN458](#) [FN461](#) [FN462](#) [FN463](#) [FN464](#) [FN470](#) [FN481](#) [FN482](#) [FN484](#) [FN493](#)

FN 110 Careers in Food and Nutrition

1c-0l-1sh

Career possibilities for nutrition majors are explored. Students will be guided in clarifying their professional goals and will become acquainted with the educational and experiential requirements necessary to attain these goals.

FN 143 Nutrition and Wellness

3c-0l-3sh

Introduces the student to the major components of wellness: contemporary nutrition issues as they relate to personal food choices, physical fitness, stress management, sexually transmitted diseases, AIDS, and substance abuse. Completion of FN143 fulfills the Liberal Studies Health and Wellness requirement.

FN 145 Introduction to Nutrition

3c-0l-3sh

Provides students with an understanding of essential nutrients and their roles in the body, as well as the changing nutritional needs of an individual throughout the lifespan. Includes the impact of exercise and food choices on metabolism, body composition, and weight control; nutrition misinformation; consumer issues; commercially prepared foods; and major diseases that are affected by eating behaviors.

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FN 150 Foods

3c-0l-3sh

Prerequisite (or concurrently): CH102

Basic principles of food, to include composition, sanitation, preparation, and preservation.

FN 151 Foods Laboratory

0c-3l-1sh

Prerequisite (or concurrently): FN150

Application of basic principles of food preparation.

FN 212 Nutrition

3c-0l-3sh

Prerequisite: CH102 or 112

Sources and functions of nutrients, interdependence of dietary essentials, and nutritive value of an optimum diet are studied. Attention given to varied conditions in human life.

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FN 213 Life Cycle Nutrition

3c-0l-3sh

Prerequisite: FN212

A detailed study of nutrition which applies information from FN212: Nutrition to all stages of the life cycle; current issues and research as they impact on these developmental stages.

FN 245 Sports Nutrition

1c-0l-1sh

Prerequisites: FN145 or 212

Emphasizes knowledge and application of sports nutrition principles. The impact of the macro- and micro-nutrients on physical performance will be discussed in light of current scientific research and applied to realistic dietary recommendation for all types and levels of athletes.

FN 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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FN 355 Nutrition in Disease I

3c-0l-3sh

Prerequisites: BI155, CH102, FN212

Basic tools for diet modification: food exchange systems; interviewing techniques; nutrition assessment; professional practice; dietary treatment of injury, surgery, recovery, obesity, and diabetes. Nutrition support. Food sampling experiences. Fall semester.

FN 357 Special Problems in Foods

0c-4l-3sh

Prerequisite: FN150

Individual problems in foods investigated with emphasis on identified weaknesses in the student's knowledge of food.

FN 362 Experimental Foods

2c-3l-3sh

Prerequisites: FN150, FN212, CH102, or CH112

The experimental study of foods, relating chemical and physical properties to reactions and processes occurring in food systems.

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FN 364 Methods of Teaching

3c-0l-3sh

Prerequisites: FN313 and 356 or concurrently

Current teaching techniques and resource materials in nutrition education emphasized. Both classroom teaching and

on-the-job training programs are included.

FN 402 Community Nutrition

3c-0l-3sh

Prerequisite: FN212

Nutritional implications of both good and poor nutrition for all age groups in home and community situations are studied. Corrective and preventive measures emphasized. Spring semester.

FN 410 Food, Nutrition, and Aging

3c-0l-3sh

Prerequisite: Junior status

Relationship of food to health maintenance and special dietary problems during the middle and later years.

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FN 430 Professional Topics in Food and Nutrition

3c-0l-3sh

Prerequisites: FN355, FN364, HR356, and PC101

Topics include promoting food and nutrition services and programs, career planning and development, ethical challenges to dietitians, quality assurance standards, and impact on the legislative process.

FN 444 Food Composition and Biochemistry

3c-0l-3sh

Prerequisites: CH355

Basic chemistry and biochemistry of essential components of food originating from plant and animal sources.

FN 447 Nutritional Aspects of Food Technology

3c-0l-3sh

Prerequisites: FN212 and BI232; junior status

Study of current known effects of food processing techniques on the nutritional value and safety of foods.

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FN 455 Nutrition in Disease II

3c-0l-3sh

Prerequisite: FN355

Dietary treatment of disorders of the gastrointestinal, renal, cardiovascular, and hepatic systems; inborn errors of metabolism; allergies; cancer. Therapeutic quackery. Food sampling experiences. Spring semester only.

FN 458 Advanced Human Nutrition

3c-0l-3sh

Prerequisites: CH351 or 355 or, concurrently, FN212, BI155

In-depth study of the nutrients and their functions within the cell. Incorporation of the principles of physiology and biochemistry in the study of nutrition. Emphasis on current research and evaluation of research methodology.

FN 461 Microwave Cooking Technology

2c-2l-3sh

Study of the electronic technology, selection, care, and use of the microwave oven. Basic physical and chemical concepts related to microwave cooking are included. Individual investigative research problems are required.

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FN 462 Advanced Experimental Foods

1c-4l-3sh

Prerequisites: FN362, CH231

An experimental approach to the many factors influencing the chemical and physical properties of food. Use of the scientific method in developing an individual project combining an evaluation of current literature and appropriate sensory and analytical methodology.

FN 463 Nutrition Counseling

2c-3l-3sh

Prerequisites: FN355, PC101, FN455 or concurrently

Use of intervention strategies in prevention and treatment of disease through diet. Supervised practicum (3 hours per week) counseling clientele in normal and therapeutic nutrition.

FN 464 Food and Nutrition Research Methods

3c-0l-3sh

Prerequisites: FN362, 458, CH351, and MA217

Introduction to research methodology in foods and nutrition. Includes theory and techniques of physical, chemical, and instrumental analysis. Applications of these methods to food and animal models with statistical analysis of data.

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FN 470 Human Food Consumption Patterns

3c-0l-3sh

Prerequisites: One social science course and junior standing

Exploration of human food consumption behaviors from food production to individual and societal consumption patterns. Influencing factors which will be discussed include agronomic, economic, geographic, sociologic, nutritional, political, and psychological factors. The ethics and morality of food distribution will be discussed. Students may not enroll in this course if they have taken the section LS499 that corresponds to this course.

FN 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

FN 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office; must have earned 60 semester hours

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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FN 484 Senior Seminar

1c-0l-1sh

Prerequisites: Senior status, FN458, 464 or concurrently

Emphasis on individual review of food and nutrition literature with formal presentation and discussion of current

research.

FN 493 Internship

var-6-12sh

Prerequisite: Must have earned 57 semester hours

An opportunity for students to work away from the university in supervised job situations at health care facilities, restaurants, or other institutional food service or lodging establishments. Objective is to provide students with job-related experiences. Must meet university internship requirements.

Note: White uniforms including white shoes are required for all lab courses where food is prepared. Students must meet the professional dress requirements of the department.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Military Science

Department of Military Science

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MS101](#) [MS102](#) [MS203](#) [MS204](#) [MS305](#) [MS306](#) [MS407](#) [MS408](#) [Leadership Laboratory](#) [Summer Camp](#)

MS 101 Introduction to Military Science

2c-1l-2sh

Study of the organization of the United States Army and the role of the military in today's society. Emphasis is on the customs and traditions of the service, the Total Army concept, and the fundamentals of leadership. Included is instruction in basic military skills, land navigation, and personal nutrition and fitness. Also, see Leadership Laboratory.

MS 102 Fundamentals of Military Science

2c-1l-2sh

Study of the basic knowledge regarding military service and the profession of arms. Emphasis is on basic military skills, first aid, and the development of leadership abilities through practical exercises. Included is instruction on offensive and defensive tactics, the Army writing style, and military briefings. Also, see Leadership Laboratory.

MS 203 Fundamentals of Tactical Operations, Techniques of Leadership, and Weapons Characteristics

2c-1l-2sh

Organization, techniques, resources, and capabilities involved in conducting small-unit tactical operations. Emphasis is on leadership, organization, and management techniques needed to cause a group of people to accomplish specific objectives. Characteristics of military weapons systems are taught. Students serve as leaders in Leadership Labs.

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MS 204 National Security and Fundamentals of Military Topography

2c-1l-2sh

Study of national security concepts, policies, and the national decision-making process with emphasis on national resources, national will, and economic factors. Included will be a study of nuclear and conventional response options. Fundamentals of military topography including the use of military maps to determine topographic features, to conduct land navigation, and to perform terrain analysis will be covered. Also, see Leadership Laboratory.

MS 305 Fundamentals of Leadership and Modern Learning/Teaching Relationship

3c-1l-3sh

Study in practical application of principles of leadership/management as applied in classroom and field to include case studies in psychological, physiological, and sociological factors which affect human behavior; individual and group solution of leadership problems common to small units. Also, see Leadership Laboratory.

MS 306 Study of Advance Leader Planning and Execution of Modern Combat Operations

3c-1l-3sh

Analysis of leader's role in directing and coordinating efforts of individuals and small units in execution of offensive and defensive tactical missions, to include command and control systems, the military team, and communications techniques. Also, see Leadership Laboratory.

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MS 407 Management of the Military Complex to Include Fundamentals of Military and International Law

3c-11-3sh

Study of the various managerial elements needed to effectively control a military organization and the techniques used to accomplish these functions. Studies in military law and international law prepare the students for their legal responsibilities. Also, see Leadership Laboratory.

MS 408 Seminar in Military Analysis and Management

3c-11-3sh

Contemporary analysis of use of military in world affairs to include importance of strategic mobility and neutralization of insurgent movements. Selected management problems and situations will be presented as they relate to military justice, administration, and obligation and responsibilities of an officer. Also, see Leadership Laboratory.

Leadership Laboratory (one afternoon per week)

var-0sh

A practical experience designed for the attainment and application of leadership principles. Concurrently scheduled in conjunction with all Military Science courses, it provides for practical challenges in personal accomplishment, both physical and mental, and for development of team work and leadership.

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Summer Camp

var-0sh

Students attend a six-week summer camp upon completion of the first year of the Advanced Course. Time at camp is devoted to practical application of principles and theories taught during the preceding school year. While at camp, each student receives lodging, subsistence, uniforms, medical care, reimbursement for travel, and pay in amount of one-half pay of second lieutenant per month.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Computer Science

Department of Computer Science
College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CO101](#) [CO105](#) [CO110](#) [CO201](#) [CO205](#) [CO220](#) [CO250](#) [CO281](#) [CO300](#) [CO310](#) [CO315](#) [CO319](#) [CO320](#) [CO345](#) [CO355](#)
[CO360](#) [CO362](#) [CO380](#) [CO405](#) [CO410](#) [CO419](#) [CO420](#) [CO424](#) [CO430](#) [CO432](#) [CO441](#) [CO444](#) [CO450](#) [CO451](#) [CO460](#)
[CO480](#) [CO481](#) [CO482](#) [CO493](#)

CO 101 Microbased Computer Literacy

3c-0l-3sh

An introductory course designed to provide students with a fundamental understanding of computers. The course familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and data base management), and the social and ethical aspects of the impact of computers on society. (Does not count toward Computer Science major. Replaced CO200 in 1989-90.)

Note: This course is cross-listed as BE101 and IM101. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

CO 105 Fundamentals of Computer Science

3c-0l-3sh

This is the first course for Computer Science majors. It is required of all Computer Science students and is appropriate for other Natural Sciences and Mathematics students. Topics include the fundamental concepts of computer architecture, algorithm development and analysis, programming languages, software engineering, data organization and representation, and systems software. Hands-on introduction to computer usage with an emphasis on terminology and the underlying connections within the discipline.

CO 110 Problem Solving and Structured Programming

3c-0l-3sh

(For Science, Mathematics, and Computer Science majors, and for others who have a sufficiently quantitative orientation) Basic structure of modern digital computers; problem analysis and computer solution using flowcharting and the C++ language. Exemption or credit by examination possible.

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CO 201 Internet and Multimedia

3c-0l-3sh

Prerequisite: BE/CM/CO/IM 101 or prior exposure to word processing and electronic mail.

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of

their own design. (BE/CM/CO/IM/LB 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit)

CO 205 Programming Languages for Secondary Education

3c-0l-3sh

Prerequisite: Education major

Provides an introduction to the three high-level programming languages most commonly used in secondary education: Pascal, LOGO, and BASIC, with particular emphasis on Pascal. Also includes a comparative study of the control structures and data structures present in these three languages. This course is intended to establish a solid foundation to prepare prospective teachers of computing courses K-12. (Note: Previous experience with microcomputers is strongly recommended. Does not count toward a Computer Science major. Credit toward graduation will not be given if this course is taken after completing six or more credits of computer science courses.)

CO 220 Applied Computer Programming

3c-0l-3sh

Prerequisite: CO110 or equivalent

Structured programming principles and techniques, as implemented through the ANS COBOL language; program design using top-down techniques; program and project documentation; introduction to sequential file algorithms.

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CO 250 Introduction to Numerical Methods

3c-0l-3sh

Prerequisites: CO110, MA122 or 123 or 127

Algorithmic methods for function evaluation, roots of equations, solutions to systems of linear equations, interpolation, curve fitting, numerical differentiation and integration; errors in computation. Introduction to FORTRAN90 programming and introduction to the use of a mathematical software package to graph functions.

CO 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

CO 300 Assembly Language Programming

3c-0l-3sh

Prerequisite: CO110 or equivalent

Examination of structure and languages of machines; representation of data, addressing techniques, symbolic coding, assemblers, macros, etc.; problem solution using assembly language.

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CO 310 Data Structures

3c-0l-3sh

Prerequisite: CO110

Basic concepts of data; storage systems and structures; lists, arrays, strings, hashing techniques; searching and sorting techniques; data structures in programming languages; string processing. Programming in a object-oriented language.

CO 315 Large File Organization and Access

3c-0l-3sh

Prerequisite: CO220

The organization of large computer files for business systems, information systems, and other applications. Use of advanced COBOL for efficient file access. Evaluation of file access methods and directory organization. Introduction to random file algorithms and integrated file systems.

CO 319 Software Engineering Concepts

3c-0l-3sh

Prerequisite: CO315 or permission of instructor

Includes the collection of tools, procedures, methodologies, and accumulated knowledge about the development of the software life cycle; current methodologies, tools, and techniques being applied to each phase will be discussed in depth with localized exercises given to reinforce learning of concepts.

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CO 320 Software Engineering Practice

1c-2d-3sh

Prerequisite: CO319 or permission of instructor

Planning, design, and implementation of large software systems using software engineering techniques. Students work in project teams on real or realistic software development projects. Credit for either CO320 or CO493 may count toward computer science major requirements for graduation but not both; the other course credits are free electives.

CO 345 Data Communications

3c-0l-3sh

Prerequisites: CO110 or 220; MA121 or 123; MA214 or 216 or 217; or equivalents

Communication of digital data between computers and to and from terminals and other peripherals; computer networks; small design projects or term paper.

CO 355 Computer Graphics

2c-1l-3sh

Prerequisites: CO310 and junior status

The use of computer graphics hardware and software. An overview of current applications and experience with representative software will introduce current practice. Foundations in primitives, geometry, and algorithms of passive computer graphics are the principal focus of the course. A brief introduction to interactive computer graphics will be included.

CO 360 IBM Job Control Language

1c-0l-1sh

Prerequisite: CO220 or permission of instructor

Detailed study of the job control language (JCL) of the IBM OS operating system; comparison of OS with the locally available DEC operating system, VAX VMS.

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CO 362 UNIX and C

3c-0l-3sh

Prerequisite: CO310 or permission of instructor

An introduction to the history, features, syntax, and applications of UNIX and C. Lectures, reading, and hands-on projects. Coverage includes two or more command interfaces, variations in C, and portability issues. UNIX is a trademark of Bell Laboratories.

CO 380 Seminar on the Computer Profession

0c-1d-1sh

Prerequisite: Permission (See text below)

Reading, review, and discussion of the current literature of computer science and industry trade journals; effective oral presentations; employment prospects. Should be taken the semester before an internship or the first semester of the senior year. Should not be taken at the same time as CO480.

CO 405 Artificial Intelligence

3c-0l-3sh

Prerequisite: CO310

An introduction to the field of artificial intelligence, i.e., the study of ideas that enable computers to process data in a more intelligent way than conventional practice allows. The course covers many information representation and information processing techniques. Students will explore the underlying theory including matching, goal reduction, constraint exploration, search, control, problem solving, and logic.

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CO 410 Processor Architecture and Microprogramming

3c-0l-3sh

Prerequisites: CO300 and 310

The logical description of computer processor structure (architecture), with emphasis on the microprogramming approach. Project assignments using minicomputer.

CO 419 Software Development with Ada

3c-0l-3sh

Prerequisite: CO310

Introduction to the Ada programming language as a tool of the software engineer. Projects will use the advanced programming constructs resident in Ada, including packages, multi-tasking, generic units, exception handlers, and concurrent programming.

CO 420 Modern Programming Languages

3c-0l-3sh

Prerequisites: CO220 and 310

Comparative study of the properties and applications of a range of modern higher-level programming languages, including Ada, APL, C, LISP, LOGO, Pascal, PROLOG, and SNOBOL. Comparison with older languages such as ALGOL, BASIC, COBOL, FORTRAN, and PL/I.

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CO 424 Compiler Construction

3c-0l-3sh

Prerequisites: CO300 and 310

Relates the formal concepts of automata and language theory to the practicality of constructing a high-level language translator. The structures and techniques used in lexical analysis, parsing, syntax directed translation, intermediate and object code generation, and optimization are emphasized.

CO 430 Introduction to Systems Programming

3c-0l-3sh

Prerequisites: CO300 and 310

Concepts and techniques of systems programming with an emphasis on assembly, linking, loading, and macro processing for user programs. Overview of higher-level language translation and system control. Programming and

research projects.

CO 432 Introduction to Operating Systems

3c-0l-3sh

Prerequisites: CO300, CO310 or equivalents

Introduction to the principles of operating system design and implementation. Topics include interrupt service, process states and transitions, spooling, management of memory and disk space, virtual storage, scheduling processes and devices, and file systems.

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CO 441 Data Base Management

3c-0l-3sh

Prerequisite: CO315

Review of data base concepts. Detailed study of data base management approaches. Comparative study of commercially available data base management systems. Project on the locally available data base systems.

CO 444 Productivity Tools and Fourth Generation Language

3c-0l-3sh

Prerequisite: CO 441 or IM 450

Develop an understanding of productivity issues and how Fourth Generation Languages (4GL) improve productivity as contrasted with 3GLs. Advances in the programming paradigm such as event driven programming, objects, reusability, graphical user interface (GUI) design and development, information systems based on relational data bases, and client/server technology are addressed. Students will gain a practical experience with these concepts through an in-depth study of Visual Basic and the development of a GUI interface to a relational database using Visual Basic.

CO 450 Applied Numerical Methods

3c-0l-3sh

Prerequisites: CO250, MA171, and MA241, or equivalents

Polynomial approximations using finite differences, with applications in numerical integration and differentiation. Numerical solution of initial value ordinary differential equations. The APL language will be introduced and used, along with FORTRAN, in programming selected algorithms.

CO 451 Numerical Methods for Supercomputers

3c-0l-3sh

Prerequisites: MA121 and 122, or MA123 or 127, MA171, CO250

Supercomputers make use of special computer architectures—vector and parallel processors—in order to achieve the fastest processing speed currently available. Students will be introduced to these features and will learn how numerical algorithms can be constructed to exploit supercomputers' capabilities. Students will gain practical experience in programming for the Cray, YMP, in incorporating existing scientific software packages into user-written programs, in submitting remote jobs to the Pittsburgh Supercomputer Center, and in producing animated graphical output to summarize the typically large volume of output data generated by large scientific programs. (Also offered as MA451; may not be taken for duplicate credit)

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CO 460 Theory of Computation

3c-0l-3sh

Prerequisites: CO310 or consent of instructor

Formal methods for describing and analyzing programming languages and algorithms. Backus-Naur forms; productions; regular expressions; introduction to automata theory; Turing machines; recent concepts in algorithm

theory computability.

CO 480 Seminar on Technical Topics

0c-11-1sh

Prerequisites: See text below

Reading, review, and discussion of the current literature of computer science and industry professional and technical journals; oral presentations. Should be taken the last semester of the senior year. Should not be taken at the same time as CO380.

CO 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Seminar in advanced topics of computer science; content will vary depending on interests of instructor and students. May be repeated for additional credit. Special Topics numbered 481 are primarily for upper-level undergraduate students.

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CO 482 Independent Study

var-1-4sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval based on academic appropriateness and availability of resources.

CO 485 Independent Study

var-12sh

Prerequisites: Permission of a computer science faculty member who agrees to supervise the student's project. Arrangements for selection of a specific topic must be made.

CO 493 Internship in Computer Science

var-12sh

Prerequisites: CO300, 310, 315, 319, 380, other courses depending on type of internship position desired, completion of application, and selection by committee

Positions with participating companies provide students with paid experience in computer science under the supervision of the companies and faculty. Requirements include three on-site consultations, two university consultations, completion of progress reports, oral presentation, and a final cumulative paper. Offered only to students during the second semester and summer of the junior year or the summer and the first semester of the senior year. No more than four semester hours of CO493 may be applied toward the 30-semester-hour requirement for a major in Computer Science.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Information Management

Department of Management Information Systems and Decision Sciences
Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[IM101](#) [IM201](#) [IM205](#) [IM241](#) [IM245](#) [IM251](#) [IM255](#) [IM260](#) [IM281](#) [IM300](#) [IM350](#) [IM370](#) [IM372](#) [IM382](#) [IM450](#) [IM451](#)
[IM470](#) [IM480](#) [IM481](#) [IM482](#) [IM493](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

IM 101 Microbased Computer Literacy

3c-0l-3sh

An introductory course designed to provide students with a fundamental understanding of computers. This course familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and data base management), and the social and ethical aspect of the impact of computers on society.

Note: This course is cross-listed as BE101 and CO101. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

IM 201 Internet and Multimedia

3c-0l-3sh

Prerequisite: BE/CM/CO/IM 101 or prior exposure to word processing and electronic mail

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BE/CM/CO/IM/LB 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

IM 205 Foundations of MIS

3c-0l-3sh

Prerequisite: BE/CO/IM101

An introductory course designed to provide students with a fundamental understanding of MIS. Systems theory, quality, decision making, and the organizational role of information systems are introduced. Information technology, including basic programming skills, is stressed. Concepts of organization, information system growth, telecommunications, and re-engineering are introduced. (pending Council of Trustees approval)

IM 241 Introduction to Management Information Systems

3c-0l-3sh

Study of management information systems and their design and implementation. General systems theory, computer hardware, and programming are emphasized and then integrated to demonstrate how an MIS is developed. (Offered only at branch campuses after 1991-92)

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IM 245 Introduction to Microcomputers

3c-01-3sh

Demonstrates how to utilize the microcomputer in business. Topics will include hardware, operating systems, word processing, spreadsheets, data base, and BASIC. Offered for Associate Degree Program only.

IM 251 Business Systems Analysis and Design

3c-01-3sh

Prerequisite: IM241 or 300

Involves teaching the tools and techniques required for the analysis and the design of business systems. The major steps in the system's development life cycle are presented along with practical applications from the major subsystems of typical business organizations. Issues related to personnel, hardware, software, and procedures are explored as students work individually and in project teams to solve typical business application problems.

IM 255 Business Applications in COBOL

3c-01-3sh

Prerequisites: AG201 and IM241 or 300

Introduces the student to the COBOL programming as it applies to business organizations and their applications. Structured COBOL concepts and methods are taught as the student learns how to solve business problems using computers. The student will be involved using files, reports, and tables to produce a variety of outputs utilized in operating and managing business activities.

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IM 260 Business Computer Application Project

3c-01-3sh

Prerequisite: IM255

Provides each student an opportunity to utilize skills and concepts presented in previous COIS courses in the planning, design, and implementation of a comprehensive case study involving computerized business applications. Students will work in teams and individually in performing tasks that are necessary to solve each problem assigned. These tasks will include systems analysis, systems design, programming, testing, and implementing and documenting simulated business problems.

IM 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

IM 300 Information Systems: Theory and Practice

3c-01-3sh

Prerequisites: CO/BE/IM 101, AG202

Includes basic MIS concepts, fundamentals, and practices. Broad areas of coverage are principles, the computer as a problem-solving tool, Computer-Based Information Systems (CBIS), organizational information systems, and Information Systems management. (Replaced IM241 in Eberly College of Business core, effective fall, 1992)

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IM 350 Business Systems Technology

3c-01-3sh

Prerequisite: CO220 or IM255

Student is taught fundamental and advanced concepts of computer hardware and a procedure for evaluation and acquisition of computer hardware.

IM 370 Advanced COBOL

3c-01-3sh

Prerequisite: CO220

Corequisite: IM350

Advanced COBOL is a continuation of introductory COBOL with an emphasis on structured methodology of program design, development, testing, implementation, and documentation of common business-oriented applications. It includes a heavy emphasis on the techniques and concepts of the table processing, file organization, and processing alternatives, internal and external sorting, subroutines, and application development for both the batch and on-line systems. Micro Focus COBOL software is utilized.

IM 372 Microcomputer Applications

3c-01-3sh

Prerequisites: IM350, CO220, AG201, or by permission

Demonstrates how to use the microcomputer in business and how to provide technical assistance to users of the microcomputer. Emphasis will be placed on integrating software and interfacing with mainframe computers or with minicomputers. Topics covered include microcomputer hardware, microcomputer operating systems, local area networks, and microcomputer software tools.

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IM 382 Auditing for EDP Systems

3c-01-3sh

Prerequisites: AG201, CO220, or IM255

Emphasizes the responsibility of the systems analyst to include in systems design the proper management and financial controls and audit trails in business information systems. The design of controls for application programs and systems is covered. Audit software packages are examined.

IM 450 Data Base Theory and Application

3c-01-3sh

Prerequisites: IM370, upper-division students only

After learning data structures, the student will then apply them to CODASYL compatible data base management systems, TOTAL, and IBM's data base management system. Student must develop and use a data base as part of requirement. [Course revision in process]

IM 451 Systems Analysis

3c-01-3sh

Prerequisites: IM350 and IM255 or CO220

Develops an understanding of concepts and techniques involving conventional and structured approaches to analyzing problems of business information systems and systems definition feasibility, as well as quantitative and evaluative techniques of business information systems analysis.

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IM 470 Systems Design

3c-01-3sh

Prerequisite: IM451

Students learn tools and techniques for design of a business system. Along with classroom discussions of principles and techniques for analyzing, designing, and constructing the system, students will formulate system teams to analyze the problems of an existing business information system, to design an improved system, and to control implementation of a new system.

IM 480 Distributed Business Information Systems

3c-01-3sh

Prerequisite: IM350

Study of the techniques involved in planning, design, and implementation of distributed processing systems. Distributed marketing, financial, and corporate accounting systems are included.

IM 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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IM 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office Individual research and analysis of contemporary problems and issues in a concentrated area of study under the guidance of a senior faculty member. Approval is based on academic appropriateness and availability of resources.

IM 493 Internship in MIS

var-3-12sh

Prerequisites: IM370, consent of department chairperson and dean

Positions with participating business, industry, or governmental organizations provide the student with experience in systems analysis.

Note: Internship IM493 can be taken, if the student qualifies, as a general elective. It does not fulfill the major-area elective requirement.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Communications Media

Department of Communications Media College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CM101](#) [CM200](#) [CM201](#) [CM230](#) [CM271](#) [CM281](#) [CM301](#) [CM303](#) [CM330](#) [CM335](#) [CM375](#) [CM380](#) [CM390](#) [CM395](#)
[CM403](#) [CM404](#) [CM405](#) [CM430](#) [CM435](#) [CM440](#) [CM441](#) [CM445](#) [CM449](#) [CM450](#) [CM451](#) [CM452](#) [CM453](#) [CM454](#)
[CM455](#) [CM456](#) [CM460](#) [CM472](#) [CM473](#) [CM476](#) [CM477](#) [CM478](#) [CM480](#) [CM481](#) [CM482](#) [CM493](#)

CM 101 Communications Media in American Society

3c-0l-3sh

Required of Communications Media majors

Introduction to the evolution, status, and future of communications media. Students explore intrapersonal communication through self-assessment, values clarification, and feedback; interpersonal communication through interviews, observations, case studies, and gaming; and mass communications through the examination of the processes and the technology utilized to disseminate and manage information. Career paths, field applications, professional associations, and the primary literature are investigated. (Previous title: Survey of Communications Media)

CM 200 Images

3c-0l-3sh

Prerequisite: CM101

The course examines the basic visual and aural elements, the strategies and options of techniques, the psychological and physiological implications of creative composition, and the range of media and formats.

CM 201 Internet and Multimedia

3c-0l-3sh

Prerequisite: BE/CM/CO/IM 101 or prior exposure to word processing and electronic mail

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BE/CM/CO/IM/LB 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

CM 230 Issues in International Communication

3c-0l-3sh

Survey of international communications with particular emphasis on communications flow, four-press theories, ownership, structure and access to media, government/media relationships, AND the impact of communications on developed and developing countries.

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CM 271 Beginning Photography

3c-0l-3sh

Prerequisite: CM101 or permission

Working with black-and-white materials, the student learns to operate a camera, develop film, make contact prints and enlargements, and mount prints for display. Ancillary topics are introduced such as filtration, print spotting, flash, and the use of accessory lenses. Student is required to have a 35mm camera, preferably a single-lens reflex, with fully manual focusing and exposure capability.

CM 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

CM 301 Technology for Learning and Instruction

3c-0l-3sh

Prerequisite: EP202 or permission

Preservice teachers gain competencies in selection, evaluation, and utilization of various instructional technologies. Application of new technologies to teaching and learning will be emphasized, along with performance-based activities in instructional design. A major portion of the course is devoted to the integration of computer-based instructional activities in the school curriculum. Does not count towards credits needed for Communications Media major.

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CM 303 Scriptwriting

3c-0l-3sh

Prerequisite: CM101

Required of Communications Media majors Introduction to the design of media materials and script writing. Style and techniques of writing will be analyzed. Classroom emphasis is on writing, critiques, and revision of designs and scripts. Scripts for audio, still projection, and motion picture and television productions will be written.

CM 330 Communications Media in Training and Education

3c-0l-3sh

Prerequisites: CM101, 303 The course reviews the historical growth and philosophies of the design and development of training and education products and processes. The student examines the principal roles and functions of human and material resource professionals for training (performance improvement), education (competency improvement), and development (personal and organizational growth).

CM 335 Consulting Practices in Communications

3c-0l-3sh

Prerequisite: CM101

The course presents the theoretical views and clinical applications of consulting skills and practices associated with and needed by communication professionals. Presented will be the functions and role of the consultant, the client's perspective on consulting, hiring a consultant, ethics in consulting, personal assessment tests, and related literature and models.

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CM 375 Mass Media and Behavior

3c-01-3sh

Prerequisites: PC101 and junior or senior status

Theory and research on the influence of the mass media on human behavior and attitudes. Topics include the effects of news and political advertising on public opinion; the effects of racist and sexist portrayals; and the effects of violence and pornography on aggressive behavior. (Also offered as PC375; may be taken only once)

CM 380 The History of African Americans in Film

3c-01-3sh

Traces the historical development of the roles of African Americans in film and television. Students examine the early stereotypic portrayals of this group, the origins of these stereotypes, and the ongoing changes, positive and negative, that have occurred regarding the media representation through research, film, and archetypal analysis, observation, and discussion. The new generation of African American filmmakers and their creative efforts to promote more realistic portrayals are analyzed.

CM 390 Practicum in Communications

var-1-3sh

Prerequisites: CM101, written permission

An opportunity with credit for students to make contributions to department and campus media-related facilities and offices including WIUP-TV, WIUP-FM, *Penn, Oak*, Public Relations, Media Resources. Repeatable for a maximum of six credits.

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CM 395 Career Planning in Communications Media

1c-01-1sh

Prerequisite: Minimum 20 CM credits

The course serves as a primary skill-building and strategy-seeking experience for the internship program and later career entry and growth. Extensive writing, research, and individual counseling are involved. Travel may be necessary.

CM 403 Writing for Broadcasting

3c-01-3sh

Prerequisites: CM101, permission

The course acquaints students with the various techniques used in writing scripts for radio and television and makes them aware of the visual impact of television and the audio impact of radio. Students are made aware of the limitations of television and radio as well as their unique features.

CM 404 Foundations of Broadcasting

3c-01-3sh

Prerequisites: CM101, permission

Examination of the historical, legal, and economic aspects of broadcasting. Impact of broadcasting on society will be explained as well as the impact of the new technology on our existing broadcasting systems.

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CM 405 Radio Production

3c-01-3sh

Prerequisites: CM101, 200, 403, 404, permission

An introduction to production techniques as they pertain to radio. The student will be exposed to programming, scripting, producing programs, intros, outros, commercials, public service announcements, station identifications, and promotional announcements. The course will also deal with the interaction of a radio station with national networks

and with the real-life concerns of deadlines.

CM 430 Analysis of Communication Products and Processes

3c-01-3sh

Prerequisites: CM330, permission

The course will provide both a framework for action and tools to measure the effectiveness of training and education in human and material resource development programs. The course contains practical theory and problem-focused discussion with students regarding application. Topics include instrument choice or construction, data collection and analysis, interpretation, and alternative presentation strategies of the findings.

CM 435 Organizational Development in Communications Media

3c-01-3sh

Prerequisites: CM330, permission

The course presents the basic methods and approaches for organization, management, and development of human and material resource departments. The topics include the primary activities and roles of an HMRD director, problem-solving functions in reporting to management, characteristics associated with career systems, and special topics.

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CM 440 Communications Graphics

3c-01-3sh

Prerequisites: CM101, permission

Provides basic experiences in planning and producing a commonly used television studio, industrial display, and classroom graphics which are applicable in educational, industrial, and medical training programs. Experiences include technical layout and lettering; color; mounting and laminating; copying and reproduction techniques utilizing photography and xerography; photo silk screening and photo sketching.

CM 441 Advanced Communication Graphics

3c-01-3sh

Prerequisites: CM440, permission

Provides in-depth experience in planning and preparing graphic materials commonly used in the communications profession; graphic materials include design, photosketching, lettering, slide titling and duplication, preparation of camera-ready art, lithographic film and master layout sheets, professional slide flat production and photocopy, large-format transparency production, color key, and color systems.

CM 445 Applications and Techniques of Motion Pictures

3c-01-3sh

Prerequisites: CM444, permission

A survey of the role that motion picture film production plays in society. Major emphasis will be placed on the variety of applications with special consideration given to motion pictures as a tool to support research.

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CM 449 Basic Audio Recording Techniques

3c-01-3sh

Prerequisites: CM101, 403, permission

Theory and practice of recording sound, developing an understanding of the language of sound recording as well as the ability to make sound recordings. Exposure to recording for various media including radio, music, motion pictures, television, multi-image, and slide and tape production. Material also appropriate for teachers who wish to make use of tape recorder in the classroom. Students will gain hands-on experience through labs and projects to be completed outside of class. Students will be expected to provide an audio tape recorder.

CM 450 Advanced Audio Recording Techniques

3c-01-3sh

Prerequisites: CM449, permission

Sound recording utilizing advanced techniques and concentrating on specific applications. Student participates in an intensive lab experience utilizing the most advanced equipment available. Emphasis on application, editing, signal processing, and multi-track recording. Student is expected to produce a sound recording for a specific use of professional quality.

CM 451 Television Production

3c-01-3sh

Prerequisites: CM101, permission

Develops basic skills in television production and direction. Consideration of operating problems of a television studio, as well as functions, limitations, and capabilities of television equipment and facilities.

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CM 452 Electronic Field Production

3c-01-3sh

Prerequisites: CM451, permission

Provides in-depth field experience with portable video equipment and lighting. Students edit programs to broadcast quality.

CM 453 Broadcast News Process

3c-01-3sh

Prerequisites: CM405, 451, permission

Reporting and presenting radio and TV news programs. Analysis of news and public affairs broadcasting.

CM 454 Broadcast Regulation

3c-01-3sh

Prerequisites: CM404, permission

This course delves into the areas of law affecting broadcasters. Topics covered are laws pertaining to cable television, station licensing and renewal, political broadcasting, libel, copyright, the right of reply, and privacy. The historical development of the FCC and its jurisdictions will also be examined. Case studies will be discussed along with the relevancy of some laws as they pertain to today's society.

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CM 455 Television Performance

3c-01-3sh

Prerequisites: CM451, permission

Provides theory and practice for performing on television. Detailed analysis of a performer's role in a variety of settings.

CM 456 Broadcast Management

3c-01-3sh

Prerequisites: CM404, permission

Detailed examination of the management decision-making process in radio and television; particular reference to program policies, personnel administration, and community relations.

CM 460 Alternative Systems of Communication

3c-01-3sh

Prerequisites: CM404, permission

The implications and capabilities of cable systems, the private and industrial utilization of nonbroadcast services, the emergence of satellite CATV networking, and the application of two-way cable response systems.

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CM 472 Photography II: The Print

3c-01-3sh

Prerequisites: CM271, permission

Students will develop camera and print-making skills to the degree that they can produce salon-quality photographic prints. Students will understand the photographic processes utilized in producing a high-quality negative and print to the extent that they can manipulate those processes to communicate an intended message with their photographs. Emphasis on camera and print control as well as composition and negative and print manipulation.

CM 473 Creative Darkroom Techniques

3c-01-3sh

Prerequisites: CM472, permission

Students pursue photographic competencies to a high level of proficiency. Specific topics may vary as photographic technology changes, but typical assignments include high-contrast photography through the use of graphic arts materials, multiple exposures in the camera and in projection printing, making and using paper negatives, and hand coloring of photos.

CM 476 Commercial Photography

3c-01-3sh

Prerequisites: CM271, 471, major status, permission

An introduction to professional studio and location work, including making pictures for advertising, catalogs, publicity, and other commercial purposes. Deals with lighting, backgrounds, and camera use for photographing portraits, products, and architecture. In addition to use of the student's own 35mm camera equipment, the course provides experience with the 4x5-inch view camera. Ability to solve basic algebra problems is required.

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CM 477 Slide/Sound Production

3c-01-3sh

Prerequisites: CM271, 303, 440, 449, permission

This course is designed to provide advanced students with the theoretical and practical experiences necessary to be able to plan, design, produce, and present effective slide/tape presentations for use in education, industry, and the allied health professions.

CM 478 Multi-image Production

3c-01-3sh

Prerequisites: CM271, 303, 440, 449, permission

An advanced production course employing instructional development techniques to emphasize the unique features of multiple image messages primarily through 2x2-inch slides. Scripting, storyboarding, computer programming, and audiovisual production techniques are used in the course project.

CM 480 Independent Study

3c-01-3sh

Prerequisites: Communications Media Major only, permission

Students may, with the sponsorship of a department faculty member and consensus of the department, elect an advanced course of study which reflects the academic goals of the department. Exemplary project is intended to extend or combine field knowledge not readily available through other course offerings. Students may take one or more semester hours (40 hours or more of commitment=1sh), and multiple projects are possible; a maximum of 3sh are permitted towards a degree program.

CM 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

CM 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

Students may, with the sponsorship of a department faculty member and consensus of the department, elect an advanced course of study which reflects the academic goals of the department. Approval is based on academic appropriateness and availability of resources. Exemplary project is intended to extend or combine field knowledge not readily available through other course offerings. Students may take one or more semester hours (40 hours or more of commitment=1 sh), and multiple projects are possible; a maximum of 3sh are permitted towards a degree program.

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CM 493 Internship

var-6-12sh

Prerequisites: Communications Media majors only, junior or senior status, permission

Supervised professional work experience in communications media. Sites reflect the academic goals of the department and are approved and administered by a department coordinator. Location, duties, length of internship, and hours are individually tailored to student career goals. Sites represent wide application of process and technology of communications in business, education, allied health, or other agencies. Students may take 3 or more sh per semester (40 hours or more of commitment=1 sh), and multiple experiences are possible; a maximum of 3sh of internship and/or field experiences are permitted towards a degree program.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Consumer Services

Department of Human Development and Environmental Studies
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CS101](#) [CS117](#) [CS205](#) [CS213](#) [CS217](#) [CS281](#) [CS299](#) [CS310](#) [CS312](#) [CS315](#) [CS357](#) [CS399](#) [CS413](#) [CS416](#) [CS421](#) [CS433](#)
[CS461](#) [CS462](#) [CS463](#) [CS464](#) [CS465](#) [CS468](#) [CS481](#) [CS482](#) [CS493](#)

CS 101 Personal and Family Management

3c-0l-3sh

Management as a system and its relationship to individuals and families. Formulation of goals, values, and standards; use of decision-making process; utilization of resources.

CS 117 Design Graphics

1c-0l-3sh

Introduction to drafting and presentation techniques as they relate to interior design. Two- and three-dimensional graphic hand skills including drafting, delineation of shading and perspective, application of color, media, texture, tone, and lettering are introduced.

CS 205 Color Theory and Application

3c-0l-3sh

The theoretical basis of color is presented as it relates to the human visual system, light, pigment, perception, and measurement. The application of color theory is discussed in terms of interior design, merchandising, and display.

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CS 213 Residential Appliances and Consumer Electronics

2c-2l-3sh

Consumer education in the selection, use, and care of home equipment appliances and consumer electronics; the relationship of energy sources and utilities to major appliances, portable and personal care appliances, and consumer electronics.

CS 217 Interior Design

1c-3l-3sh

Prerequisite: AR120 or equivalent

Emphasis upon development of knowledgeable consumers in the selection and design of a home, its furnishing, and its total environment.

CS 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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CS 299 Cooperative Education I

0sh

Prerequisite: Approval of co-op coordinator

Designed to combine theory with practical application through job-related experiences. Consumer services majors are actively employed in business, industry, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives. First of two alternating work experiences required.

CS 310 Human Factors in Interior Design

3c-0l-3sh

Prerequisite: Junior standing

The study of human and technology systems interface as related to interior design. Emphasis on ergonomic and economic decision making to insure that the user can function with a minimum of stress and a maximum of efficiency.

CS 312 Housing and Culture

3c-0l-3sh

Managerial, sociological, economic, and aesthetic aspects of housing and man are investigated as well as a consideration of the environment of the home as part of the community.

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CS 315 Consumer Economics and Family Finance

3c-0l-3sh

Economic, sociological, and psychological principles are applied to family money management problems. Information needed to manage finances effectively and to become a rational consumer is presented.

CS 357 Interior Design Studio

1c-3l-3sh

Prerequisite: CS217

Creative solutions to problems in interior environments emphasized. Professional interior design practices; design opportunities.

CS 399 Cooperative Education II

0sh

Prerequisite: Approval of co-op coordinator

A program designed to combine theory with practical application through job-related experiences. Consumer services majors are actively employed in business, industry, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives. The student is required to serve a minimum of two alternating work experiences.

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CS 413 Problems in Consumer Economics

3c-0l-3sh

Prerequisite: CS315 or Economics Problems of consumer-seller relationships studied with emphasis given to effects of current economic and social forces. Governmental and private protection agencies which aid the consumer are

reviewed. Individual investigations required. Fall semester only.

CS 416 Problems in Family Finance

3c-0l-3sh

Prerequisite: CS315

In-depth theories and principles in personal and family finance and the rights and responsibilities of consumers are emphasized. Opportunities are provided for students to explore specific areas of interest. Spring semester only.

CS 421 Senior Seminar

2c-0l-2sh

Prerequisites: Completion of 90 semester hours

Knowledge gained in major and outside concentration courses is applied to individual career goals. Students have the opportunity to pursue related areas not directly covered in previous coursework, with emphasis upon independent research, analytical thinking, and communications skills.

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CS 433 Study Tour

var-1-6sh

Prerequisite: Upper-level standing

Opportunity is provided to visit business establishments and cultural centers concerned with household equipment, furnishings, textiles, clothing, and housing in America as well as abroad. Museums, factories, designers' showrooms, distribution centers, stores, cultural events, and seminars are included. Course may be repeated for a total of 6 semester hours. (This course is cross-listed as FM433.)

CS 461 Microwave Cooking Technology

2c-2l-3sh

Study of the electronic technology, selection, care, and use of the microwave oven. Basic physical and chemical concepts related to microwave cooking are included. Individual investigative research problems are required.

CS 462 Historic Interiors

3c-0l-3sh

Chronological study from ancient times to the mid-19th century of the dominant influences and characteristics of historical interiors, furniture, and ornamental design. Emphasis placed upon style detail and its relationship to social, economic, political, religious, and aesthetic influence and to the contemporary scene. Paper required.

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CS 463 Modern Interiors

3c-0l-3sh

Chronological study from mid-19th century to the present of the dominant influences and characteristics of the 20th-century interior, furniture, and ornamental design. Emphasis placed upon style detail and its relationship to social, economic, political, religious, and aesthetic influences and to contemporary usage. Paper required.

CS 464 Interior Planning and Drawing

1c-3l-3sh

Prerequisite: CS217

Analysis and design as related to contract applications. Presentation, appropriate media, equipment, and techniques will be stressed. Freehand and mechanical methods employed to depict floor plans, elevation, and construction details with emphasis on function.

CS 465 Interior Lighting

3c-0l-3sh

Prerequisite: CS217 or equivalent

Lighting fundamentals applicable to the environmental design of residential and commercial spaces. Includes calculation methods, terminology, theory of color visibility, light source alternatives, fixture function and selection, lighting trends, and related professional organizations.

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CS 468 Interior Design Professional Practice

3c-0l-3sh

Prerequisite: Junior standing

Planning, business organization, management, contracts, procedures, and ethics for the professional interior designer.

CS 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

CS 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

Particular consumer considerations are independently investigated in the area of housing, home equipment, interior design, clothing, and textiles, or in the management of resources. Course may be repeated for a total of 3 semester hours. Students meet with a faculty member at least 5 hours per semester hour.

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CS 493 Internship

var-1-12sh

Prerequisites: Approval of instructor and department chairperson; upper-level standing

Practical experience related to the student's major area of study with objectives, supervised experience, and evaluation. Course may be repeated for a total of 12 semester hours.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

French

Department of French
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FR101](#) [FR201](#) [FR202](#) [FR203](#) [FR221](#) [FR222](#) [FR253](#) [FR254](#) [FR281](#) [FR301](#) [FR321](#) [FR322](#) [FR351](#) [FR352](#) [FR354](#) [FR361](#)
[FR362](#) [FR363](#) [FR365](#) [FR366](#) [FR367](#) [FR368](#) [FR371](#) [FR372](#) [FR481](#) [FR482](#) [FR493](#)

FR 101 Basic French

4c-0l-4sh

For the student beginning the study of French or who needs remedial study before beginning the intermediate sequence. Primary emphasis is on the mastery of French pronunciation and oral communication. Students will learn to converse in simple present time and become acquainted with location of Francophone populations and elements of their daily lives. Attendance and Foreign Language Learning Center practice is required.

FR 201 College French I

3c-0l-3sh

The initiation of college-level mastery of basic language skills and exposure to cultural materials. Supplements beginners' oral competency with more advanced reading and writing. Emphasis on narration in the past. Efforts are made to practice skills and comprehend texts in authentic cultural contexts. Liberal Studies elective credit is given for this course.

FR 202 College French II

3c-0l-3sh

Prerequisite: FR201 or equivalent

This course continues the college-level mastery of language skills. The ability to narrate present and past is intended to express opinion and hypothesis. Emphasis is on acquiring greater skill in reading literary and cultural texts. Liberal Studies elective credit is given for this course.

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FR 203 Accelerated College French

6c-0l-6sh

Develops listening and speaking skills through an immersion method. Students use present, past, and future to indicative tenses in intensive aural/oral interaction and are expected to make use of the audio and video capabilities of the Foreign Language Learning Center on a weekly basis. Liberal Studies elective credit is given for this course.

FR 221 Conversation III

2c-0l-2sh

Gives students opportunity to practice the grammatical knowledge they acquire in a corresponding class and develops their oral skill. Stresses phonetics, pronunciation, and vocabulary.

FR 222 Conversation IV

2c-0l-2sh

Continues the study of phonetics to improve students' pronunciation. Readings of relatively short texts followed by questions and answers. Some informal conversation to increase the vocabulary, to be able to react spontaneously to a given situation, and to carry the oral skill to a higher level.

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FR 253 Intermediate Composition and Conversation

3c-0l-3sh

Intermediate course in grammar, reading, composition, and some oral work. Can substitute for or be in addition to FR202 for majors or serious students.

FR 254 Civilization of Modern France

3c-0l-3sh

Prerequisite: FR202 or equivalent

Study of modern French culture and civilization—social institutions, government, industry, economics, and geography. Development of all language skills for use in business situation in French-speaking environment. Emphasis on acquisition of an active knowledge of the business world.

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FR 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

FR 301 Portraits of Women in the French Novel

3c-0l-3sh

Explores the polarity of the treatment of female characters in the French novel. Explores differences of treatment by male and female writers through inclusion of women novelists. Provides a chronological survey of the development of the novel in France from the seventeenth to the twentieth centuries.

FR 321-322 Advanced Conversation I and II

each 1c-0l-1sh

Designed to increase speaking ability. The variety of content permits repetition of these relatively informal courses.

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FR 351-352 Advanced French I and II

each 3c-0l-3sh

Reviews grammar in depth; analyzes the structure of the language; frequent themes required.

FR 354 Business French

3c-0l-3sh

Prerequisite: FR254 or permission of instructor

Study of principles and practices of business communication in French secretarial and administrative procedures with an emphasis on the planning and writing of business letters, reports, and abstracts of articles in business and economics.

FR 361 Development of French Culture and Literature I

3c-0l-3sh

Provides a general background in French cultural history, including art, architecture, and music and in social and political ideas and a general survey of literature. The course spans the period from the Middle Ages to the French Revolution.

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FR 362 Development of French Culture and Literature II

3c-0l-3sh

This course provides a general background in French cultural history including art, architecture, and music and in social and political ideas and a general survey of literature. Spans the period from Pre-Romanticism to the present.

FR 363 Medieval and Renaissance Literature

3c-0l-3sh

A study of the major literary works of the period, beginning with the Chansons de gestes and emphasizing the evolution of ideas and the various literary genres.

FR 365 Seventeenth-Century French Literature

3c-0l-3sh

A study of the major Baroque and neoclassical works in poetry, theater, and prose with special attention to the evolution of ideas and the French moralist tradition.

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FR 366 Eighteenth-Century French Literature

3c-0l-3sh

A study of the Age of Enlightenment in its principal authors and works, including the popularization of ideas for and by secondary authors; a survey of the century's intellectual and literary crosscurrents in French literature and the wider scope of foreign influences.

FR 367 Nineteenth-Century French Literature

3c-0l-3sh

A study of the literature of nineteenth-century France with particular attention to the development of the novel while also treating the genres of poetry and theater. Attention is given foreign influences and correlations.

FR 368 Twentieth-Century French Literature

3c-0l-3sh

A survey of the poetic, theatrical, and narrative genres of the French twentieth century with emphasis on the interaction between philosophical development and literary expression.

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FR 371 The French Novel

3c-0l-3sh

Elective survey of the origin and development of the French novel. Works representative of major genres are read in their entirety.

FR 372 Studies in Contemporary French Literature

3c-0l-3sh

Content of this course will vary in accordance with needs and interests of those who elect it.

FR 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times.

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FR 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. An opportunity to engage in an in-depth analysis of some topic dealing with the French language and culture through consultation with a faculty member.

FR 493 Internship

var-3-12sh

Prerequisite: One semester of study in France

A supervised field experience in France with approved public agencies and institutions or private firms; no longer than one semester and no less than one month. Positions will be matched as closely as possible with the intern's personal interests and professional goals. For more information, contact the director of the Internship Abroad Program.

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German

Department of German
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[GM151](#) [GM152](#) [GM221](#) [GM222](#) [GM251](#) [GM252](#) [GM253](#) [GM254](#) [GM256](#) [GM281](#) [GM321](#) [GM322](#) [GM351](#) [GM352](#)
[GM361](#) [GM362](#) [GM363](#) [GM364](#) [GM367](#) [GM368](#) [GM369](#) [GM370](#) [GM371](#) [GM381](#) [GM410](#) [GM481](#) [GM482](#) [GM493](#)

GM 151 German I

3c-0l-3sh

For beginners, the objectives include grammar, pronunciation, reading, speaking, and writing.

GM 152 German II

3c-0l-3sh

For students who have had German I or its equivalent, the objectives are to enhance and develop the four skills of listening, speaking, reading, and writing.

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GM 221 Conversation III

2c-0l-2sh

Two-hours-weekly conversation practice in small groups emphasizing the use of greetings, idiomatic expressions, and communication skills to improve vocabulary and pronunciation.

GM 222 Conversation IV

2c-0l-2sh

Two hours of weekly conversation designed as a continuation of the practice in small groups, focusing on speaking and listening skills and on participation in discussions and dialogues. May enroll without having taken GM221.

GM 251 German III

3c-0l-3sh

Continued training in basic skills, with the possible addition of the study of specific topics; consult the department for topics of interest.

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GM 252 German IV

3c-0l-3sh

Continuation of German III with some emphasis on literary works.

GM 253 Intermediate Composition and Conversation

3c-0l-3sh

Can be taken instead of or in addition to 252. Designed for majors or serious students. Offered in spring only.

GM 254 Business German

3c-0l-3sh

Prerequisite: GM251 or equivalent

A one-semester course which can be taken instead of, or in addition to, GM252 by students interested in business or as part of the General Education requirement (equivalent to German IV). Business practices and specialized business vocabulary, letter writing, and problems of translation are emphasized.

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GM 256 Scientific German

3c-0l-3sh

Designed to substitute for GM252, course will be offered in the second semester. Primarily for science majors, it may be taken as an elective by German majors.

GM 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

GM 321-322 Advanced Conversation I and II

each 2c-0l-1sh

Designed to increase speaking ability. The variety of content permits repetitions of these relatively informal courses.

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GM 351 Advanced German Language I

3c-0l-3sh

Aims to review and expand the student's grammatical skills, to apply these skills to extensive cultural and short literary readings, and to produce frequent themes on these readings.

GM 352 Advanced German Language II

3c-0l-3sh

Continues to expand the student's grammatical skills and to apply them by the writing of longer themes based on cultural and literary readings.

GM 361 Development of German Culture and Literature I

3c-0l-3sh

Designed to provide a background in German literature, music, art, architecture, and history. Surveys the period from the migrations of the Germanic tribes to the rise of Prussia as a European power.

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GM 362 Development of German Culture and Literature II

3c-0l-3sh

A continuation of GM361. Covers the period from the French Revolution and its effects on Germany up to the present,

with an emphasis on German literature, history, and music.

GM 363 Introduction to German Literature I

3c-0l-3sh

Selected readings in German poetry to acquaint the student with formal and thematic aspects of German verse from the Middle Ages to the present.

GM 364 Introduction to German Literature II

3c-0l-3sh

Selected readings in German fiction and drama to acquaint the student with representative works and techniques of interpretation.

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GM 367 Nineteenth-Century German Literature

3c-0l-3sh

A survey of the major works of German poetry and prose with an emphasis on the literary movements of Romanticism, Realism, and Naturalism.

GM 368 Twentieth-Century German Literature

3c-0l-3sh

A study of representative works of German poetry and prose from Expressionism through World War II.

GM 369 Contemporary German Literature

3c-0l-3sh

A study of the literary achievement of postwar Germany up to the present.

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GM 370 The Age of Goethe I

3c-0l-3sh

A study of representative works from the Enlightenment and Storm and Stress periods.

GM 371 The Age of Goethe II

3c-0l-3sh

A study of selected works of German Classicism with an emphasis on the prose and poetry of the first decades of the nineteenth century.

GM 381 German Drama in English Translation

3c-0l-3sh

Representative works of major dramatists in English translation. Primarily intended for students of English literature and comparative literature and not considered as credit toward a German major.

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GM 410 History of the German Language

3c-0l-3sh

History and development of German language, with special emphasis on relationships with English. Analysis of annals in Gothic, Old High German, and Middle High German using methods of historical and contemporary linguistics.

GM 481 Special Topic

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students. Designed to meet the special needs of a student group.

GM 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

An opportunity to engage in an in-depth analysis of some topic dealing with the German language and culture through consultation with a faculty member.

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GM 493 Internship in Germany

var-3-12sh

Prerequisites: 12 credits in 300- or 400-level courses and a minimum of one semester study in Germany

A supervised field experience in Germany with approved public agencies and institutions or private firms; no longer than one semester and no less than one month. Positions will be matched as closely as possible with the intern's personal interests and degree of proficiency in the German language. Academic work at the Gesamthochschule in Duisburg must precede the internship. Open to students in other disciplines, such as Political Science, International Relations, Business, etc., with advisor approval.

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Home Economics Education

Department of Human Development and Environmental Studies
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[HE218](#) [HE220](#) [HE224](#) [HE250](#) [HE281](#) [HE317](#) [HE321](#) [HE324](#) [HE350](#) [HE418](#) [HE420](#) [HE422](#) [HE424](#) [HE426](#) [HE427](#)
[HE430](#) [HE450](#) [HE455](#) [HE463](#) [HE481](#) [HE482](#) [HE493](#)

HE 218 Child Development

3c-0l-3sh

Prerequisite: PC101

Focuses on the normal development and behavior of children. Survey made of physical, emotional, social, and intellectual development of children from conception through early adolescence. Pertinent child development research analyzed.

HE 220 Teaching in Child Development Centers

2c-4l-4sh

Prerequisite: HE218 or equivalent

Techniques in planning for and teaching preschool children. Participation as teacher-assistant provides experience in applying principles of child guidance and development needed by teachers in preschool centers or secondary school child development laboratories.

HE 224 Marriage and Family Relations

3c-0l-3sh

Prerequisite: PC101

Focuses on principles of human relations basic to marital decisions and adjustment. Influence of community and family experiences on personal development and adjustment explored.

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HE 250 Introduction to Teaching Vocational Home Economics Education

3c-0l-3sh

Overview of philosophy and organization of home economics profession and the role of home economics teachers. Opportunities for planned observations and varied teaching experiences using a variety of resource materials are provided. Self-evaluation relative to desirable teacher competencies is stressed.

HE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

HE 317 Infant Development

2c-2l-3sh

Prerequisite: HE218

Study of characteristic developmental changes of human infants from birth to approximately two and a half years. Participation as teacher assistant in infant/toddler child care center provides experience in developmentally appropriate guidance and planning for very young children.

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HE 321 Preschool Education

3c-0l-3sh

Prerequisite: HE220 or concurrently

Examination of the child development philosophy as the basis for developmentally appropriate decisions and methods in preschool education programming. Emphasis is placed on play as a developmental process and as the major aspect of the preschool curriculum. May not be interchanged with EL353: Preschool Education.

HE 324 Family Dynamics

3c-0l-3sh

Prerequisite: HE224 or equivalent

Emphasis on processes and models of family development topics. Focus on approaches and dynamics of principles related to familial and marital adjustment and coping.

HE 350 Teaching Family Life Education

3c-0l-3sh

Prerequisites: HE250, ED242**Corequisite:** EP302

Emphasis on teaching family life education in home economics classrooms and through community organizations and agencies. Lessons are planned and implemented using a variety of instructional methods incorporating adaptations and modifications for special needs learners, basic skills, global concerns, and use of a problem-solving/decision-making approach. Planning of content, learning activities, instructional materials, and evaluation based on clearly stated objectives are emphasized. A microcomputer spreadsheet is utilized to manage a department budget and a gradebook. Participation in professional organization activities is expected.

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HE 418 Advanced Child Development

3c-0l-3sh

Prerequisite: HE218

Study of trends and research in the field of child development based on a review of major theorists and current literature.

HE 420 Practicum in Child Development

1c-10l-6sh

Prerequisites: Senior standing and HE220 and HE321

The intensive practicum provides in-depth practical advanced laboratory experiences designed to refine and further develop the techniques and skills needed by professionals to work with young children and families.

HE 422 Early Childhood Education

3c-0l-3sh

Prerequisite: HE220 or concurrently

Current educational theories and research reviewed in terms of implication for preschool and their effect on material, equipment, and activity selection.

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HE 424 Family Issues

3c-0l-3sh

Prerequisite: HE224

Concentrated study of selected areas of family life, with emphasis on current personal and social issues affecting the family.

HE 426 Techniques of Parent Education

3c-0l-3sh

Prerequisite: HE220 or equivalent

Examination of nature, extent, and significance of parent education. Interrelationships of home, school, and community agencies are examined in light of various programs, methods, and techniques of parenting education.

HE 427 Administration of Child Development Centers

3c-0l-3sh

Prerequisites: HE220 or equivalent, juniors or seniors only

Development of special knowledge and competencies needed by successful administrators of child care programs including proposal writing, budgeting, management, staff selection and training, appropriate curriculum materials, philosophy, parent involvement, child advocacy, and program evaluation.

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HE 430 Student Teaching Practicum

1c-0l-1sh

Taken concurrently with ED431 and 441. Assists student teachers in analyzing problems and experiences encountered during student teaching. Emphasizes the variety and types of home economics programs and focuses on developing effective teaching strategies (four sessions of three and a half hours during the semester).

HE 450 Teaching Vocational Home Economics

3c-0l-3sh

Prerequisite: HE350

Emphasis is on teaching vocational home economics in consumer/homemaking and occupational home economics programs. Federal legislation impacting on home economics is analyzed for use in program decisions. Emphasis is given to program development using CBVE model, development of individual learning packets, vocational youth organizations, advisory committees, home economics and vocational educational priorities, professional organizations, proposal development for funding, impact on public policy, marketing home economics, and development of a personal philosophy of home economics education.

HE 455 Home Economics Programs for Individuals with Special Needs

3c-0l-3sh

Prerequisite: EX300

Application of vocational regulations and public laws in relation to individuals with special needs. Developing home economics programs (planning, methods, strategies, and resources) for individuals with special needs applicable to school and nonschool settings.

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HE 463 Family and the Community

3c-01-3sh

Study of community agencies and problems that affect families and their contributions to community. Investigation of ways group dynamics, communication media, and other resources aid understanding of human behaviors. Field experience is an integral part of the course.

HE 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

HE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

Upper-level students with high scholastic achievement pursue their particular interests outside the realm of the organized home economics education curriculum. May be taken more than once to a maximum of 3 semester hours. Approval is based on academic appropriateness and availability of resources.

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HE 493 Internship

var-6-12sh

Prerequisites: Permission of department, college dean, and university internship coordinator; upper-level standing
Practical experience related to the student's major area of study. Objectives are developed individually in consultation with university faculty member who supervises the internship. Log and major paper required. May be repeated up to a total of 12 semester hours; however, these semester hours are not applicable toward the 124 semester hours required for graduation if student receives 12 semester hours in student teaching.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Journalism

Department of Journalism
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[JN102](#) [JN105](#) [JN120](#) [JN220](#) [JN243](#) [JN250](#) [JN281](#) [JN321](#) [JN323](#) [JN326](#) [JN327](#) [JN328](#) [JN337](#) [JN344](#) [JN345](#) [JN347](#)
[JN348](#) [JN375](#) [JN393](#) [JN423](#) [JN427](#) [JN430](#) [JN446](#) [JN450](#) [JN481](#) [JN482](#) [JN490](#) [JN491](#) [JN492](#) [JN493](#) [JN494](#)

JN 102 Basic Journalistic Skills

3c-0l-3sh

Prerequisite: EN101

Required for journalism majors and minors. Emphasis on grammar, punctuation, spelling, AP Stylebook, copyediting, headlines, and accuracy. (Offered as JN106 prior to 1994-95)

JN 105 Journalism and the Mass Media

3c-0l-3sh

Prerequisite: EN101

A critical examination of roles-goals of newspapers, magazines, radio, and television as they affect American society socially, politically, and economically.

JN 120 Journalistic Writing

3c-0l-3sh

Prerequisite: EN101, nonmajors/minors

Emphasis on intelligent use of writing ability in a journalistic style and understanding of the why of journalism and mass media. This course practices and improves writing skills for all news media, print and broadcast.

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JN 220 Writing for the Print Media

3c-0l-3sh

Prerequisites: JN102 (C or better), majors only

A course in journalistic style intended for students who plan to become professional writers. Teaches the basic journalistic formats and strategies used in print media such as the summary lead, the delayed lead, and the conventional news-story format. Throughout emphasizes economy, clarity, and the development of voice for a given medium.

JN 243 History of the American Press

3c-0l-3sh

Prerequisites: JN120 or 220

Traces the development of the American press from its colonial roots. Emphasis on the role of the press in political and social development. (Offered as JN343 prior to 1994-95)

JN 250 Women and the Press

3c-0l-3sh

Prerequisites: EN101, sophomore standing

Explores the role of women in American journalism. Includes study of lives/careers of women journalists and their specific contributions to the profession. Emphasis on evolution of equal opportunity for women and other minorities in the American Press. Attention to the changing definition of news as influenced by the inclusion of women and minorities in editorial roles.

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JN 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

JN 321 Feature Writing

3c-0l-3sh

Prerequisites: JN102, 220

Designed for the student who might work in journalism or who might wish to write on a part-time or free-lance basis.

JN 323 Management in Mass Communications

3c-0l-3sh

Prerequisites: JN493 or field experience

Attention given to the process of advancement to management positions in the advertising, journalism, and public relations industries.

JN 326 Public Relations I

3c-0l-3sh

Prerequisites: JN102, 120 or 220

Introduces students to the principles, practices, programs, and possibilities in the various areas of public relations.

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JN 327 Layout Design and Production

2c-3l-3sh

Prerequisite: JN105

Provides basic techniques and theories of layout design and production, including typography, copyfitting, photo/art cropping and scaling, and steps in design process. Includes traditional paste-up and desktop publishing in the design of ads, newspapers, newsletters, brochures, and magazines.

JN 328 News Reporting

3c-0l-3sh

Prerequisites: JN102, 105, 220, majors only

Includes instruction in writing the news story, preparing copy, interviewing, covering special events, and similar reporting activities.

JN 337 Editing

3c-0l-3sh

Prerequisites: JN102, 220

Stresses basic practices such as copyediting and headline writing while also focusing on guidelines for improving accuracy, clarity, transition, spelling, and punctuation of copy. Students use wire service stylebook extensively.

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JN 344 Issues and Problems

3c-01-3sh

Prerequisites: JN102, JN120 or JN220

Students examine critical case histories of ethical and professional situations and circumstances in the mass communication industry in a lecture and discussion format.

JN 345 Sports Journalism

3c-01-3sh

Prerequisite: JN220

Emphasizes skills for covering, writing, and editing of sports and introduces students to specific practices in newspaper, radio-TV, and sports information work.

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JN 347 Journalism Law

3c-01-3sh

Prerequisites: JN328, junior/senior standing

Open to nonmajors by permission of the instructor. Survey of the major Supreme Court and state court rulings governing the mass media, especially the news media. Areas include libel, antitrust, free press/fair trial, privacy. Approach is nontechnical.

JN 348 The Editorial Page

3c-01-3sh

Prerequisite: Junior/senior standing

Emphasis on the writing of vigorous but thoughtful and fair editorials. Study of contemporary practice and policy on letters to the editor, columnists, cartoons, the op-ed page.

JN 375 World News Coverage

3c-01-3sh

Prerequisite: Sophomore standing

A course dealing with international news events and analysis of international news coverage in sources from around the world. Emphasis placed on analyzing comparative coverage of events in different sources. Students study not only current international news but also how it is reported. The goal of the course is fostering a critical attitude toward news.

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JN 393 Document Design I

3c-01-3sh

Prerequisite: Junior/senior standing

Teaches students advanced principles of document design and gives them the opportunity to apply techniques of rhetorical/stylistic analysis, general problem solving, and holistic information display to a wide variety of writing formats used in business, industry, and government news.

JN 423 Management in Mass Communications

3c-01-3sh

Prerequisites: JN493 or field experience

Attention given to the process of advancement to management positions in the advertising, journalism, and public relations industries.

JN 427 Publications

3c-01-3sh

Prerequisites: JN493 or field experience

Provides advanced techniques and theories of publications design, including the legibility principles of typography, the psychological impact of color and paper, and designing on-line publications, such as newspapers, newsletters, and magazines. Students will also learn principles and concepts of publications management, including coping with deadline pressures and the creative disposition, and the marketing of publications. The class will produce a total publication. (pending Council of Trustees approval)

JN 430 Public Opinion and the News Media

3c-01-3sh

Prerequisite: Junior standing

Deals with understanding and measuring public opinion. Emphasis is placed on critically analyzing the historical origins and the dynamics of public opinion in the policymaking process as well as the role of the news media in public opinion. Students then measure people's thinking on any given issue or issues.

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JN 446 Advanced Reporting

3c-01-3sh

Prerequisite: JN328 (C or better), instructor permission

Will explore theoretical and practical issues in information gathering, with emphasis on data analysis and computer-assisted reporting for public affairs journalism. Students will apply scientific methods in news reporting and analyze the effects of precision journalism on society. (Offered as JN346 prior to 1994-95)

JN 450 Advertising Writing

3c-01-3sh

Prerequisite: JN220, instructor permission

This is a basic course in the preparation of advertising copy and continuity for all media. It is a combination of lecture and laboratory course. Enrollment is limited to fifteen upperclass majors per semester. (Offered as JN350 prior to 1994-95)

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JN 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

These courses vary from semester to semester, covering a number of journalism specialties. From time to time they are converted to permanent course numbers. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

JN 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office
Opportunities for independent study that goes beyond the usual classroom activities. Approval is based on academic appropriateness and availability of resources; enrollment is limited to fifteen upperclass majors per semester.

JN 490 Public Relations II

3c-01-3sh

Prerequisite: JN220, JN326

A public relations writing class that includes assignments such as releases, features, newsletters, reports, biographies, rewrites, hometown stories, copyediting, interviewing, research, and special projects. (Offered as JN390 prior to 1994-95)

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JN 491 Presentation Making

3c-01-3sh

Prerequisite: JN220, JN326

Gives the student practice in writing and making oral presentations based on public relations cases and problems. Familiarizes the student with problem-solving and small-group communication skills necessary for those working in the area of public affairs. (Offered as JN391 prior to 1994-95)

JN 492 Problem-solving in PR

3c-01-3sh

Prerequisite: JN328

Introduces students to techniques for analyzing and tracking information flow in organizations. Introduces students to creative problem-solving techniques which are standard practice in corporate research groups. (Offered as JN392 prior to 1994-95)

JN 493 Internship

var-6-12sh

Prerequisites: JN102, JN105, JN220, JN328, department approval

On-the-job training opportunities in journalism and related areas. Maximum of 6sh may be applied to 30sh minimum of major.

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JN 494 Document Design II

3c-01-3sh

Prerequisite: JN 328, JN393

Gives students advanced work in preparation of substantial corporate and government documents such as annual reports, lengthy project reports, and research reports, etc. Emphasizes skills in research of public and government documents, data analysis and problem solving, holistic information display, writing, and editing. (Offered as JN394 prior to 1994-95)

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Latin

Department of Spanish and Classical Languages
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[LA101](#) [LA102](#) [LA201](#) [LA281](#) [LA351](#) [LA352](#) [LA361](#) [LA362](#) [LA371](#) [LA481](#) [LA482](#)

LA 101 Elementary Latin I

4c-0l-4sh

For beginning students. Emphasis is on oral and reading skills. Students will learn most of the Latin noun system; they will also learn how to answer simple and moderately difficult Latin questions. There are also short readings in easy Latin. Students learn significant differences between Latin and English. Attendance is required.

LA 102 Elementary Latin II

4c-0l-4sh

A continuation of Latin 101. In grammar, students finish the noun system and learn several Latin tenses, including the perfect tense. Latin questions, oral and written, remain an important part of the course, as do the readings. There are class discussions and a paper on readings in English from Sophocles, Tacitus, and Cicero. Attendance is required.

LA 201 Intermediate Latin

4c-0l-4sh

More of the verb system is learned; while grammatical studies continue, more emphasis is placed on learning how to read short, intermediate-level selections from Latin literature. Oral and written questions continue. Ovid's *Metamorphoses* is the topic for class discussion and a paper. Liberal Studies credit is given.

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LA 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

LA 351 Advanced Latin I

3c-0l-3sh

Reviews grammar in-depth; analyzes the structure of the language. Written themes are not required. Selections from Latin prose are read for knowledge of their content and for developing knowledge of the structure of the language. Offered only by individualized instruction.

LA 352 Advanced Latin II

3c-01-3sh

Continuation of Latin 351. Selections are from poetry this semester.

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LA 361 Development of Roman Culture and Literature

3c-01-3sh

Latin poetry and history will be read to show the influence of political and social ideas on literature; emphasis will be on the contrast between the Republican and Imperial periods. Some reading will be in Latin; most will be in English. Offered only by individualized instruction.

LA 362 Latin Conversation and Composition

3c-01-3sh

Aims at the ability to speak Latin on a conversational level and to write grammatically correct Latin prose. Offered only by individualized instruction.

LA 371 Survey of Latin Literature I

3c-01-3sh

Comprehensive view of Latin literature from Ennius through the Augustan Age. Offered only by individualized instruction.

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LA 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

LA 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
An opportunity to engage in an in-depth analysis of some topic dealing with the Latin language and culture through consultation with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Spanish

Department of Spanish and Classical Languages
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[SP101](#) [SP102](#) [SP121](#) [SP122](#) [SP131](#) [SP132](#) [SP201](#) [SP221](#) [SP222](#) [SP223](#) [SP230](#) [SP244](#) [SP260](#) [SP281](#) [SP290](#) [SP321](#)
[SP340](#) [SP342](#) [SP344](#) [SP353](#) [SP354](#) [SP362](#) [SP382](#) [SP382](#) [SP383](#) [SP384](#) [SP385](#) [SP389](#) [SP390](#) [SP400](#) [SP402](#) [SP403](#)
[SP404](#) [SP410](#) [SP411](#) [SP412](#) [SP420](#) [SP421](#) [SP430](#) [SP431](#) [SP481](#) [SP482](#) [SP493](#)

SP 101 Elementary Spanish I

4c-0l-4sh

For beginning students. Primary emphasis is on aural/oral skills. Students will learn to converse and ask questions in simple present time and become acquainted with location of Hispanic populations and elements of their daily lives. Attendance is required.

SP 102 Elementary Spanish II

4c-0l-4sh

A continuation of SP101. Students will learn to express past and future time. They will continue to learn about Hispanic countries and their cultures. Attendance is required.

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SP 121 Spanish for Health Care Professionals I

3c-0l-3sh

For beginning students in nursing and other health-related programs. Primary emphasis is on aural/oral skills. Students will learn to converse and ask questions related to health care settings in simple present time and near future. They will also become acquainted with Hispanic populations and elements of their daily lives. Class and language lab attendance are required. A student may receive credit for only one course from SP101, 111, 121, or 131.

SP 122 Spanish for Health Care Professionals II

3c-0l-3sh

Prerequisite: SP 121 or equivalent

A continuation of SP121 for students in nursing and other health-related programs. Primary emphasis is on aural/oral skills. Students will learn to express past and future time in health care settings. They will read articles about medical issues and short stories which concern health care themes in Hispanic cultures. Class and language lab attendance are required. A student may receive credit for only one course from SP102, 211, 122, or 132.

SP 131 Spanish for the Hospitality Industry I

3c-0l-3sh

Similar to SP101 but with a special emphasis on the vocabulary and structures used in the hospitality industry: hotel and restaurant management, tourism, and marketing. Class and language lab attendance is required. A student may receive credit for only one course from SP101, 111, 121, or 131.

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SP 132 Spanish for the Hospitality Industry II

3c-0l-3sh

Prerequisite: SP 131 or equivalent

Similar to SP102 but with a special emphasis on the vocabulary and structures used in the hospitality industry: hotel and restaurant management, tourism, and marketing. Class and language lab attendance is required. A student may receive credit for only one course from SP102, 211, 122, or 132.

SP 201 Intermediate Spanish

4c-0l-4sh

Prerequisite: SP102 or equivalent

A continuation of previous work on listening, speaking, reading, and writing skills. Students will learn to function in everyday situations, expressing opinions and doubts, and narrating and describing in present, past, and future time. Exposure to cultural concepts through literary readings. Liberal Studies credit is given.

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SP 221 Intermediate Spanish Conversation

3c-0l-3sh

Prerequisite: SP201 or equivalent

Intensive work on oral communication skills with emphasis on vocabulary building, pronunciation, and discourse strategies. Required for all majors and minors.

SP 222 Intermediate Spanish Conversation-Business

3c-0l-3sh

Prerequisite: SP201 or equivalent

Same as SP221 but with a special emphasis on the vocabulary and structures used in the business world. Substitutes for SP221.

SP 223 Intermediate Spanish Conversation-Criminology

3c-0l-3sh

Prerequisite: SP201 or equivalent

Same as SP221 but with a special emphasis on the vocabulary and structures used in law enforcement and criminal justice. Substitutes for SP221.

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SP 230 Intermediate Spanish Composition

3c-0l-3sh

Prerequisite: SP221 or concurrent registration

Intensive practice in written expression in Spanish. Both communicative and structural skills are stressed. Taught in Spanish. Required for all majors and minors. This course is approved to meet the Liberal Studies requirement for a writing-intensive course for majors.

SP 244 Modern Mexico

3c-0l-3sh

Prerequisite: SP 201 or equivalent and participation in the Mexico Summer Study Abroad Program

This course, taught in Mexico as part of the study abroad program, introduces students to the contemporary culture of the largest Spanish-speaking country in the world. A historical perspective is provided within which to understand

current phenomena. Textbook readings are supplemented with readings from literary works and current periodicals. Students will gain firsthand experience both through field trips and by living with a Mexican family. Taught in Spanish.

SP 260 Introduction to Hispanic Literature

3c-0l-3sh

Prerequisite: SP230 or equivalent

This course is a prerequisite for any 300- or 400-level course in Hispanic literatures. Designed to provide students with the tools necessary for developing literary competence, the course combines a study of literary genres and analysis with an introduction to the literatures of Spain and Spanish America. Taught in Spanish. Required for all majors and minors.

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SP 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

SP 290 Spanish for Elementary Teaching

3c-0l-3sh

Prerequisite: SP201 or equivalent oral proficiency rating. For students enrolled in the FLISET Program

This course is designed for elementary education/early childhood majors who are completing the FLISET Program. The purpose of the course is to increase the students' proficiency in Spanish and to prepare them for an internship in an elementary school abroad. Emphasis is placed on vocabulary acquisition and on strengthening of listening and speaking abilities in Spanish. Through in-class interaction and practice in the language laboratory, students improve their linguistic skills, learn the language necessary for dealing with elementary-age children, and acquire basic vocabulary for teaching the content areas of the elementary school curriculum.

SP 321 Advanced Spanish Conversation

3c-0l-3sh

Prerequisite: SP230 or equivalent

Extensive practice in oral communication skills. Emphasis is placed on developing fluency in speaking over a wide range of topic areas. Required for all majors and minors.

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SP 340 Hispanic Civilization Through the 19th Century

3c-0l-3sh

Prerequisite: SP230 or equivalent

An introduction to the significant aspects of the culture of both Spain and Spanish America. Elements for explanation and discussion are drawn from artistic, literary, religious, geographic, social, and political manifestations of Hispanic culture as these have revealed themselves through the nineteenth century. Taught in Spanish. Required for all majors and minors.

SP 342 Twentieth-Century Spanish Civilization and Culture

3c-0l-3sh

Prerequisite: SP230 or equivalent

An analysis of the major cultural trends in twentieth-century Spain as they relate to its current problems, aspirations,

and values. Elements for explanation and discussion are drawn from artistic, literary, religious, geographic, social, and political manifestations. Taught in Spanish; offered alternate years. (May not duplicate credit for SP382 taken in Valladolid)

SP 344 Twentieth-Century Spanish-American Civilization and Culture

3c-01-3sh

Prerequisite: SP230 or equivalent

An analysis of the major cultural trends in twentieth-century Spanish America as they relate to its position in the world. Elements for explanation and discussion are drawn from artistic, literary, religious, geographic, social, and political manifestations, including indigenous cultural influences. Taught in Spanish; offered alternate years.

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SP 353 Spanish Phonetics and Phonemics

3c-01-3sh

An introduction to the phonological study of the sounds and training in pronunciation. The student will learn the theoretical basis for understanding the Spanish sound system and will perfect pronunciation through classroom practice and tapings. The course is taught in Spanish. Required for Spanish Education majors; highly suggested for Spanish majors.

SP 354 Commercial Spanish

3c-01-3sh

Prerequisite: SP230 or equivalent

Designed especially for majors in Spanish for International Trade, this course has three focuses: it teaches students how to do business communications in Spanish; it teaches the vocabulary necessary for dealing with all aspects of trade and commerce; and it introduces students to the special concerns and practices of business in the Spanish-speaking world. Taught in Spanish.

SP 362 Survey of Peninsular Literature

3c-01-3sh

Prerequisite: SP260 or permission

A course designed to introduce students to a careful and critical reading of literary texts from Spain read either in their entirety or in select passages. Taught in Spanish; offered alternate years.

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SP 382 -389 Pennsylvania-Valladolid Program

18sh

Prerequisite: SP230 and SP260 or permission

Contact chairperson, Department of Spanish and Classical Languages. Courses taken in Valladolid include the following and SP482: Independent Study (3sh). Descriptions below.

SP 382 Contemporary Spain

3sh

Prerequisite: SP230 and SP260 or permission

Gives the student a general view of Spain today in the areas of society, economy, and political institutions. (See SP342)

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SP 383 Geography and History of Spain

3sh

Prerequisite: SP230 and SP260 or permission

Students will be introduced to a panorama of Spanish physical, social, and economic geography including the recent autonomic division of the country and the communication among the autonomies. Students will also review the history of Spain from the fifteenth century to the present with special emphasis on today's Spanish institutions.

SP 384 History of Spanish Art

3sh

Prerequisite: SP230 and SP260 or permission

Students will be exposed to the richness of art in the Iberian Peninsula and in particular in the area of Madrid and Castilla-Leon. They will study the evolution of Spanish art in history, giving more emphasis to contemporary tendencies.

SP 385 Survey of Spanish Literature

3sh

Prerequisite: SP230 and SP260 or permission

Students will be introduced to a general study of Spanish literature from its origin to the present time. Students will learn to appreciate and analyze the different literary genres. Emphasis will be placed on twentieth-century literature.

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SP 389 Theory and Practice of Spanish Language

3sh

Prerequisite: SP230 and SP260 or permission

Students will be introduced to Spanish syntax, morphology, and the Spanish language lexicon. They will be introduced to familiar and formal conversation and to idiomatic expressions used in everyday situations.

SP 390 Teaching of Elementary Content Through the Spanish Language

3c-0l-3sh

Prerequisites: Passage of a language proficiency examination and permission of the instructor

The student will study current theories of language acquisition processes in children and will develop foreign language instructional objectives and activities which integrate language and cultural learning with the content areas of the elementary school curriculum. Through hands-on practice, the student will develop techniques for teaching functional language, planning lessons, testing language skills, setting curricular objectives, and selecting/designing materials appropriate to the needs and interests of elementary school foreign language learners.

SP 400 History of the Spanish Language

3c-0l-3sh

Prerequisite: SP230 or equivalent

Traces phonological, morphological, lexical, and syntactical evolution of Castilian dialect from its origins in vulgar Latin through its development, perfection, and ultimate recognition as the official language of Spain and Spanish America. Places Castilian linguistically with relation to other Romance languages and considers features peculiar to Spanish of Latin America. Taught in Spanish.

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SP 402 Translation and Interpretation

3c-0l-3sh

Prerequisite: SP230 and SP321

Fundamental translation skills for use in business and industry as well as in academic and popular fields.

SP 403 Applied Linguistics

3c-0l-3sh

Prerequisite: SP230

An introduction to Spanish linguistics for students who have had no previous experience in linguistics. Students will study the application of areas such as phonology, morphology, syntax, and semantics and will explore issues in psycholinguistics and sociolinguistics. Taught in Spanish.

SP 404 Advanced Spanish Grammar

3c-0l-3sh

Prerequisites: SP221 or equivalent and SP230 and senior standing or departmental permission

An in-depth study of Spanish syntax and morphology. Taught in Spanish. Required for all majors.

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SP 410 Medieval Literature

3c-0l-3sh

Prerequisite: SP260 or permission

Reading and discussion of various medieval genres: brief prose narrative, epic, lyric, and didactic poetry, prose, and medieval drama. Taught in Spanish; offered in four-year rotation.

SP 411 Golden Age Literature

3c-0l-3sh

Prerequisite: SP260 or permission

Analysis of themes, motifs, and stylistic devices of Spanish poetry, novel, and theater of the Renaissance and Baroque. Taught in Spanish; offered in four-year rotation.

SP 412 The Spanish Novel of the 19th and 20th Centuries

3c-0l-3sh

Prerequisite: SP260 or permission

Analysis of selected novels from three major periods: the nineteenth century, the Generation of 1898, and the post Civil War. Taught in Spanish; offered in four-year rotation.

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SP 420 Modern Hispanic Theater

3c-0l-3sh

Prerequisite: SP260 or permission

Study and analysis of modern dramatic works from Spain and Spanish America. Particular emphasis will be given to the representational aspect of the works. Taught in Spanish; offered in four-year rotation.

SP 421 Modern Hispanic Short Story

3c-0l-3sh

Prerequisite: SP260 or permission

The critical analysis of short stories by Spanish and Spanish-American authors. Taught in Spanish; offered in four-year rotation.

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SP 430 Twentieth-Century Spanish-American Prose

3c-0l-3sh

Prerequisite: SP260 or permission

Traces literary expressions from the turn of the century to the present in the major prose expressions of the essay, the short story, and the novel. Taught in Spanish; offered in four-year rotation.

SP 431 Spanish-American Poetry

3c-0l-3sh

Prerequisite: SP260 or permission

A study of Spanish American poetry from its early manifestations through modernism, post-modernism, and avant-garde. Taught in Spanish; offered in four-year rotation.

SP 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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SP 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office

An opportunity to engage in an in-depth analysis of some topic dealing with the Spanish language and culture through consultation with a faculty member. Approval is based on academic appropriateness and availability of resources.

SP 493 Internship

var-3-12sh

Prerequisite: One semester of study in a Spanish-speaking country

A supervised field experience in any Spanish-speaking area of the world with approved public agencies and institutions or private firms, no longer than one semester and no less than one month. Positions will be matched as closely as possible with the intern's personal interests and professional goals. For more information contact the Spanish and Classical Languages Department. Maximum of six credits can apply toward a major.

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International Studies

Department of Political Science
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[IS281 IS482](#)

IS 281 Special Topics in Non-Western Studies

var-1-3sh

This course focuses on politics, society, and culture of a particular non-Western country or area. Course content is variable, depending on the semester. Will be taught by visiting exchange professors from non-Western countries. This Special Topics course may be offered on a continuing basis.

IS 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member.

Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Critical Languages

College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[CL101-120](#) [CL151-170](#) [CL201-220](#) [CL251-270](#)

Critical Languages are offered in four levels. See program description in the opening section of the College of Humanities and Social Sciences. Specific languages are offered as available.

CL 101 - 120 Critical Languages I

3c-0l-3sh

Basic vocabulary and pronunciation in the target language. Oral/aural skills are stressed.

CL101	Arabic I
CL102	Chinese I
CL103	Dutch I
CL104	Finnish I
CL105	Hindi I
CL106	Hungarian I
CL107	Italian I
CL108	Japanese I
CL109	Korean I
CL110	Modern Greek I
CL111	Portuguese I
CL112	Russian I
CL113	Swedish I

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CL 151 - 170 Critical Languages II

3c-0l-3sh

Prerequisite: Level I or acceptable equivalent

A continuation of the first-semester course. Depending on the language being studied, reading and writing may be introduced at this level.

CL151	Arabic II
CL152	Chinese II
CL153	Dutch II

CL154	Finnish II
CL155	Hindi II
CL156	Hungarian II
CL157	Italian II
CL158	Japanese II
CL159	Korean II
CL160	Modern Greek II
CL161	Portuguese II
CL162	Russian II
CL163	Swedish II

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CL 201 - 220 Critical Languages III

3c-0l-3sh

Prerequisite: Level II or acceptable equivalent

At this first intermediate level, students will begin to develop a degree of oral proficiency that will vary with the language studied. Reading and writing will be studied in all languages by this level.

CL201	Arabic III
CL202	Chinese III
CL203	Dutch III
CL204	Finnish III
CL205	Hindi III
CL206	Hungarian III
CL207	Italian III
CL208	Japanese III
CL209	Korean III
CL210	Modern Greek III
CL211	Portuguese III
CL212	Russian III
CL213	Swedish III

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CL 251 - 270 Critical Languages IV

3c-0l-3sh

Prerequisite: Level III or acceptable equivalent

By the end of this course the student should be able to communicate in simple terms with an educated native speaker on a topic with which the student is familiar. Ability in reading and writing will vary with language.

CL251	Arabic IV
CL252	Chinese IV
CL253	Dutch IV

CL254	Finnish IV
CL255	Hindi IV
CL256	Hungarian IV
CL257	Italian IV
CL258	Japanese IV
CL259	Korean IV
CL260	Modern Greek IV
CL261	Portuguese IV
CL262	Russian IV
CL263	Swedish IV

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Liberal Studies

Liberal Studies Program Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[LS499](#)

LS 499 Senior Synthesis

3c-0l-3sh

Prerequisite: 73 or more semester hours earned

This course helps students understand and handle complex intellectual and social issues from multiple perspectives. A selection of topics, available each semester and summer session, is announced and described in the undergraduate course schedule. Students should schedule the course during the senior year or at least no earlier than the last half of the junior year. In order to broaden their experiences, students are encouraged to enroll in synthesis sections taught by instructors outside of the students' major fields.

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Library

The University Libraries Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[LB151](#) [LB201](#) [LB281](#) [LB481](#)

LB 151 Introduction to Library Resources

var-1sh

A lecture/laboratory course (fourteen one-hour classes) which provides an introduction to the resources of a university library, how those resources are organized, and how to use those resources effectively.

LB 201 Internet and Multimedia

3c-0l-3sh

Prerequisite: BE/CM/CO/IM 101 or prior exposure to word processing and electronic mail

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BE/CM/CO/IM/LB 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

LB 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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LB 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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Women's Studies

Women's Studies Program Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[WS200](#) [WS281](#) [WS481](#) [WS482](#)

WS 200 Introduction to Women's Studies

3c-0l-3sh

Focuses on women as they are and as they have been—as represented by the work of writers and as presented in the theory and research of various disciplines. Historical and contemporary images of women are examined in terms of their impact on our lives. The relationships of women to social institutions such as education, religion, and health care are explored. Alternative theories explaining the roles and status of women are compared. Attempts to help us understand the choices and experiences women face in their everyday personal, work, and public lives.

WS 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

WS 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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WS 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Universitywide Courses

Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[UN480](#) [UN493](#)

UN 480 T.H.I.S. Seminar

3c-0l-3sh

Academic seminar taken at the State System of Higher Education University Center in Harrisburg in conjunction with the T.H.I.S. internship. Consists of public policy information, decision making, and budgeting and addresses question-and-answer sessions with leading state government policymakers. See descriptions under Academic Affairs areas. Restricted to the T.H.I.S. internship participant. See UN493.

UN 493 T.H.I.S. Internship

var-12sh

Practical experience at the policymaking level of the state government that also requires a research project. Student must have a 3.0 GPA and submit a sample of writing skills with the application to the Experiential Education Office. Open to any IUP major. See description under Academic Affairs areas. Concurrent seminar course required. See UN480.

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Administrative Services

Department of Office Systems and Business Education Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[AD101](#) [AD221](#) [AD321](#) [AD481](#) [AD482](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

AD 101 Introduction to Business

3c-0l-3sh

Overview of the principles, practices, and methods common to most business firms in a private enterprise system. (Not open to juniors and seniors in Business)

AD 221 Business Technical Writing

3c-0l-3sh

Prerequisite: EN101

Application of business and technical writing styles, letters, memos, reports, procedures, and manuals are some areas of concern. Emphasis on clear, concise writing style. (May not be used as a substitute for AD321)

AD 321 Business and Interpersonal Communications

3c-0l-3sh

Prerequisite: EN101, 202

Study of communication theory and principles as applied to business situations and practices; development of communication skills in areas of communication such as speaking, writing, listening, and nonverbal communicating. Emphasis on building effective interpersonal relations in a business environment.

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AD 481 Special Topics

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

AD 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Accounting

Department of Accounting
Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[AG201](#) [AG202](#) [AG281](#) [AG299](#) [AG300](#) [AG301](#) [AG302](#) [AG311](#) [AG399](#) [AG401](#) [AG412](#) [AG421](#) [AG422](#) [AG431](#)
[AG435](#) [AG441](#) [AG451](#) [AG461](#) [AG471](#) [AG481](#) [AG482](#) [AG488](#) [AG493](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

AG 201 Accounting Principles I

3c-0l-3sh

Introduces the student to the accounting cycle in service and merchandising concerns using the single proprietorship form of business organization; covers use of special journals and subsidiary ledgers in the accounting system as well as accounting and internal control procedures for cash, receivables, inventory, and plant and equipment.

AG 202 Accounting Principles II

3c-0l-3sh

Prerequisites: C or better in AG201, sophomore status

Covers accounting principles and procedures for payroll, partnerships, corporations, long-term liabilities and investments, and manufacturing firms with a general accounting system. Introduces the student to cost accounting systems, financial statements analysis, budgeting, and use of accounting information in making managerial decisions.

AG 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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AG 299 Cooperative Education I

0c-0l-2sh

Prerequisites: Completion of 55 credits with a minimum GPA of 2.0 including at least a "C" in AG201, AG202, and IM241, and approval of the cooperative advisor

The initial experience in a program designed to combine classroom theory with practical application through job-related experiences. Students are actively employed in the accounting area in business, industry, government, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives in accounting. The student is expected to complete subsequently AG399 or an internship.

AG 300 Managerial Accounting

3c-0l-3sh

Prerequisite: AG202 (not open to Accounting majors)

Emphasizes the use of accounting information in performing the managerial functions of planning, control, decision making, and performance evaluation.

Note: Accounting majors will not be granted degree credit for AG300.

AG 301 Intermediate Accounting I

3c-0l-3sh

Prerequisite: C or better in AG202

An overview of the foundation of accounting theory dealing with application of generally accepted accounting principles as promulgated in professional pronouncements to the reporting process and to accounting for various asset items in the financial statements.

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AG 302 Intermediate Accounting II

3c-0l-3sh

Prerequisite: C or better in AG301

Application of generally accepted accounting principles to various areas such as accounting for corporations, long-term investments in securities, bonds, pension costs, leases, etc.

AG 311 Cost Accounting

3c-0l-3sh

Prerequisite: C or better in AG202

Cost accounting methods and procedures including cost accumulation under job order cost system and process cost system, cost allocation, budgeting, and accounting for spoilage, joint, and by-products. The planning and control aspect of cost accounting is emphasized.

AG 399 Cooperative Education II

0c-0l-3sh

Prerequisites: AG299; completion of 85 credits with an overall GPA of 2.0; a GPA of 2.3 in AG301, AG302, and AG311 with at least a "C" in each course; and approval of the cooperative advisor

The subsequent course in cooperative education is designed to combine classroom theory with practical application through job-related experiences. Cooperative Education students are actively employed in the accounting area in business, industry, government, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives in accounting.

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AG 401 Advanced Accounting

3c-0l-3sh

Prerequisite: AG302

Study of accounting issues of specialized nature including partnerships, organization and liquidation, agency and branch accounting, accounting for business combinations, preparation of consolidated financial statements, accounting for government and not-for-profit entities, accounting for estates and trusts, and receivership accounting.

AG 412 Advanced Cost Accounting

3c-0l-3sh

Prerequisite: C or better in AG311

Study of budgets, standard costs, direct and absorption costing, analysis of cost variances, and extensive analysis of various cost control and profit planning programs.

AG 421 Federal Taxes

3c-0l-3sh

Prerequisite: C or better in AG202

Acquaints the student with Federal Income Tax Laws as they apply to individual taxpayers and partnerships.

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AG 422 Federal Taxation of Corporations, Partnerships, Estates, and Trusts

3c-0l-3sh

Prerequisites: AG421 and 302

Advanced course in federal income taxation as it applies to taxpayers other than individuals. Covers the tax treatment of those property transfers subject to federal and state gift and death taxes. The tax planning aspect of the various course topics as well as tax research methodology are also discussed.

AG 431 Auditing

3c-0l-3sh

Prerequisite: AG302 Study of auditing theory and practical application of auditing standards and procedures to the review, testing, and evaluation of accounting controls and to the verification of transactions and balances to express an opinion in an audit report on the fairness of financial statements' presentation.

AG 435 Internal Auditing

3c-0l-3sh

Prerequisite: AG431

This course covers four issues: foundations for internal auditing, administering internal auditing activities, operational areas, and special relationships and evaluation for internal auditing.

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AG 441 Accounting for Government and Nonprofit Organizations

3c-0l-3sh

Prerequisite: AG302

Presents the views of authoritative professional organizations as to desirable standards of accounting and reporting for governmental and nonprofit entities. Topics include budgeting and budgetary accounts, accounting for various funds, the general fixed assets group of accounts, the financial reporting process, and application of the principles of fund accounting in specific areas.

AG 451 Seminar in Accounting Standards

3c-0l-3sh

Prerequisite: AG302

Study of professional standards having authoritative support in the field of accounting. APB opinions, FASB interpretations, and SEC Accounting Series Releases are discussed.

AG 461 Accounting Systems

3c-0l-3sh

Prerequisites: AG302, AG311, IM300

Study of concepts, principles, and procedures of accounting system design, installation, implementation, auditing, and maintenance in relating to system objectives, information requirements, constraints, system elements, and

considerations on a computerized basis.

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AG 471 International Accounting

3c-0l-3sh

Prerequisites: AG311 for Accounting majors or AG300 for non-Accounting majors

A comparative study of the effects of differences in cultural and business philosophies on national and international accounting policies. Specific financial accounting controversies, such as accounting for transactions involving foreign currency exchanges, will be discussed. International management accounting topics will include international transfer pricing policies, performance evaluations of multinational managers and divisions, and management information systems. International aspects of financial planning, auditing, and taxation practices will also be reviewed.

AG 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

AG 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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AG 488 Internship in Accounting (Industrial and Government)

6sh

Prerequisites: Consent of departmental chairperson and dean, Eberly College of Business; overall GPA of 2.75 and GPA in accounting courses of 3.0

Practical experiences, generally totaling 400 hours, in an industrial or government accounting setting.

AG 493 Internship in Accounting (Public)

6sh

Prerequisite: Consent of departmental chairperson and dean, Eberly College of Business; overall GPA of 3.00 and GPA in accounting courses of 3.0

Practical experiences, generally totaling 400 hours, with a public accounting firm.

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Business Law

Department of Finance and Legal Studies
Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[BL235](#) [BL281](#) [BL336](#) [BL337](#) [BL382](#) [BL383](#) [BL440](#) [BL481](#) [BL482](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

BL 235 Introduction to Business Law

3c-0l-3sh

Introduction to legal systems, torts, contracts, and sales law.

BL 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

BL 336 Law of Business Organizations

3c-0l-3sh

Prerequisite: BL235

A study of the law dealing with commercial paper, agency, partnerships, corporations, and bankruptcy.

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BL 337 Consumer Law

3c-0l-3sh

Nature of law as it pertains to the consumer. Attention to consumer protection relationships; real and personal property; credit; environmental law; law pertaining to employment; landlord-tenant relationships; product liability; insurance; and family law.

BL 382 Real Estate Fundamentals

3c-0l-3sh

Designed to acquaint the student with the language, principles, and laws that govern the business of real estate. Emphasis on the underlying concepts of land, property, rights in realty, and the means, methods, and laws that govern the conveyance of these rights. Required course for taking the Pennsylvania Real Estate Sales Exam.

BL 383 Real Estate Practice

3c-01-3sh

Prerequisite: BL382

One of the two courses required by the Pennsylvania Real Estate Commission in order to take the Pennsylvania Real Estate Sales Licensing Exam. Topics include real estate brokerage, the real estate market, listing contracts, the Pennsylvania Real Estate Licensing and Registration Act and its rules and regulations, appraisal, property management, fair housing laws, ethical practices for real estate professionals, and real estate math.

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BL 440 Business Negotiations

3c-01-3sh

Prerequisites: BL235, junior standing

This course is open to all majors meeting the prerequisites. It covers the basic theories and strategies of negotiation in the business environment and provides instruction and practice to develop negotiation skills. The course focuses on the knowledge and skills needed in intercompany and intracompany negotiations. The course focuses on neither collective bargaining nor labor negotiations.

BL 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

BL 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Finance

Department of Finance and Legal Studies Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FI220](#) [FI281](#) [FI310](#) [FI320](#) [FI322](#) [FI324](#) [FI355](#) [FI385](#) [FI410](#) [FI420](#) [FI422](#) [FI424](#) [FI481](#) [FI482](#) [FI493](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

FI 220 Essentials of Finance

3c-0l-3sh

Provides students with a survey of three fundamental areas of finance: 1) Corporate Finance, 2) Basic Investment, and 3) Financial Intermediation and the Monetary System. Students will be introduced to financial analysis, planning, and control; to the management (the acquisition and allocation) of funds; and to the fundamentals of the time value of money and capital budgeting. Students will be familiarized with the basic investment markets, fundamental and technical analysis, and portfolio analysis. Students will also consider the influence of government and financial institutions on interest rates, sources of finance, investment of funds, and finance in general. (Offered for Associate Degree Program at branch campuses only; may not be used as a substitute for FI310)

FI 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

FI 310 Finance I

3c-0l-3sh

Prerequisites: AG202, MA214 for business majors; AG202, MA214 or MA217 for non-business majors (MA214 recommended)

Study of the methods of securing and managing funds on short, intermediate, and long-term bases. The financial analysis, planning, and control of a corporation. Also covered is working capital management.

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FI 320 Finance II

3c-0l-3sh

Prerequisites: FI310, upper division only

Continues FI310 and covers topics on long-term external financing of the firm, capital budgeting, valuation of the firm, mergers, international business finance, and business failures.

FI 322 Life Insurance

3c-0l-3sh

Prerequisite: FI310

Comprehensive study of that insurance which provides protection against the economic loss caused by termination of earning capacity. Analysis benefits, underwriting, rate making, and legal doctrines.

FI 324 Principles of Investments

3c-0l-3sh

Prerequisite: FI310

Analysis of various types of securities and other forms of investment possibilities and a study of sound investment policies from a corporate viewpoint. Factors influencing the general movement of security prices and the return from investments are considered.

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FI 355 Financial Analysis Using Lotus 1-2-3

3c-0l-3sh

Prerequisites: BE/CO/IM101 and FI310

Develops the financial students' computer modeling and analysis skills. Students will be taught how to utilize current computing resources, electronic spreadsheet, and other computing software to analyze, model, and solve a variety of financial problems.

FI 385 Securities and Commodities Markets

3c-0l-3sh

Prerequisites: FI320, 324

Study of the structure of security and commodity markets; the nature of speculative transaction and methods of trading; analysis of pricing; and the objectives of security and commodity market regulation.

FI 410 Financial Institutions and Markets

3c-0l-3sh

Prerequisite: FI324

Review of the entire structure of financial institutions, money, and capital markets, of which the business enterprise is both a supply and demand factor, and structure and dynamics of interest-rate movements.

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FI 420 Investment Analysis

3c-0l-3sh

Prerequisites: FI320, 324

Integrates the work of the various courses in the finance areas and familiarizes the student with the tools and techniques of research in the different areas of investments.

FI 422 Seminar in Finance

3c-0l-3sh

Prerequisites: FI320, 324, seniors only

Primarily for the senior Finance major, covers topics in all areas of finance by using recent articles, cases, discussions, speakers, and a financial simulation game.

FI 424 International Financial Management

3c-01-4sh

Prerequisite: FI310

The financial management concepts, useful in a single-country context, are adapted for the international variables and constraints caused by being international. Provides an insight into unique issues and problems the manager of the multinational enterprise will face, such as working capital management; capital budgeting process; financing and investing abroad; capital and money markets; foreign exchange markets; and risk management.

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FI 481 Special Topics

var-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

FI 482 Independent Study

var-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

FI 493 Finance Internship

var-3-12sh

Prerequisites: FI320, 324, consent of chairperson and dean

Practical experience in the finance field. Note: Internship FI493 can be taken, if the student qualifies, as a general elective. It does not fulfill the major-area elective requirement.

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Management

Department of Management Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MG275](#) [MG281](#) [MG300](#) [MG305](#) [MG310](#) [MG311](#) [MG325](#) [MG330](#) [MG334](#) [MG350](#) [MG351](#) [MG400](#) [MG401](#) [MG402](#) [MG403](#) [MG406](#) [MG428](#) [MG432](#) [MG437](#) [MG452](#) [MG454](#) [MG459](#) [MG481](#) [MG482](#) [MG492](#) [MG493](#) [MG495](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

MG 275 Introduction to Entrepreneurship

3c-0l-3sh

Prerequisites: AG201, EC121, sophomore status, only for nonmajors, permission by department

Entrepreneurship is defined, common myths are discussed, and characteristics of entrepreneurs are identified. Basic characteristics of entrepreneurs are reviewed. This course includes topics such as the psychology of entrepreneurship; economic and social aspects of entrepreneurship; history; techniques of purchasing a company; new venture initiation; and risk taking.

MG 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

MG 300 Human Resource Management

3c-0l-3sh

Prerequisite: PC101

Designed to recognize and evaluate the application of behavioral science approaches in the study of human resource management. Topics include recruiting and selection, training, management development, performance evaluation, communications, wage and benefit programs, and management-labor relations.

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MG 305 Organizational Staffing

3c-0l-3sh

Prerequisites: MG300, MA214

Focuses on the theoretical, technical, administrative, and legal issues involved in the recruitment, selection, placement, and promotion of individuals by organizations. Topics covered include human resource planning, job analysis, job description and specifications, recruitment, selection process, equal employment opportunity and affirmative action, reliability and validity of selection instruments and techniques, and contemporary issues in selection.

MG 310 Principles of Management

3c-01-3sh

Provides the student with an in-depth identification and understanding of the relevant theories, concepts, and principles underlying the management function.

MG 311 Human Behavior in Organizations

3c-01-3sh

Prerequisite: PC101

Human problems of management. Basic ideas and theories from the behavioral sciences as they apply to human behavior in organizations are presented. Management solutions to problems resulting from individual-organization interaction are emphasized.

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MG 325 Small Business Management

3c-01-3sh

Prerequisites: MG275, MK320, MG310

A survey course emphasizing those aspects of small business management not covered elsewhere in the student's program. Key topics include Real Estate, Site Selection, and Facilities Management; Purchasing Management, Vendor Relations, and Inventory Systems; Plant Security, Loss Control, Risk and Insurance Management; Human Resources Management, Employee Benefits, Motivation, and Leadership; Small Business Market Research, Customer Services Management, and Pricing. A review of other elements of the small firm's milieu is included as a necessary contextual element (e.g., planning, accounting, financing, law).

MG 330 Production and Operations Management

3c-01-3sh

Prerequisites: MA121, MA214, junior status, Eberly College of Business or approved major

Study of the process of converting an organization's inputs into outputs whether in goods-producing or service industries. Provides an overview of concepts, tools, and techniques used in management of production and operations function in organizations.

MG 334 Quality Management

3c-01-3sh

Prerequisite: MG330

Emphasizes the philosophy that quality is an organizationwide phenomenon that influences every aspect of its operations. An overview of current quality management philosophies and tools and techniques for managing quality in manufacturing and services.

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MG 350 International Business

3c-01-3sh

Prerequisite: MG310

A study of the international dimensions of business and the critical environmental and organizational factors that affect managerial approaches in the international arena. Focuses upon the management problems stemming from the movement of goods, human resources, technology, finance, or ownership across international boundaries. (Also offered as MK350)

MG 351 International Management

3c-0l-3sh

Prerequisite: MG310

Provides the student with a general foundation on managing multinational corporations (MNCs). Examines the macro- and structural-level issues of MNCs. Focuses on planning, organization structure, managerial decision making, and human resource management in global structures and differences between MNCs and domestic organizations.

MG 400 Compensation Management

3c-0l-3sh

Prerequisite: MG300

Studies the policies and programs that help managers design and administer compensation systems for private and public sector enterprises. Includes motivation theories and practice designing of compensation systems. (Title was Wage and Salary Administration prior to 1994-95.)

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MG 401 Management Development and Training

3c-0l-3sh

Prerequisites: MG300, MG310

Principles, problems, and procedures in planning, organizing, directing, and controlling all aspects of training and development programs in a business enterprise. Methods of improving and development of managerial skills are emphasized.

MG 402 Seminar in Human Resource Management

3c-0l-3sh

Prerequisites: MG300, graduating senior

An integrative course in Human Resource Management. Considers current issues in human resource management literature and contemporary topics in the human resource management field using case studies.

MG 403 Small Business Planning

3c-0l-3sh

Prerequisites: MG325, AG300, IM101 or BE101 or CO101

Integrates the content of much of the business core and relates it to the business planning for small businesses and entrepreneurial efforts. The student will be introduced to the concepts which will support the development of an effective business plan.

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MG 406 Human Resources Management Research

3c-0l-3sh

Prerequisites: QB215, MG300

Study of the nature of research questions, research methods, research design, collection, analysis, and interpretation of data. Focuses on design, development, implementation, and evaluation of Human Resources Management programs. Applications in employee selection, performance measurement, work attitudes and motivation, employee training, and development areas.

MG 428 Seminar in Management

3c-0l-3sh

Prerequisites: MG310

An integrative course in management. Considers current literature in the field and contemporary issues in management using case studies.

MG 432 Business and Society

3c-01-3sh

Overview of the interactions between business and the larger social system in which it operates. Considers the problem, solutions, and future directions of societal issues and their relationships to the business environment. Topics discussed include consumerism, the morality of advertising, self-regulation, pollution and ecology, overpopulation, government regulation, and the social and ethical responsibilities of business and industry. (Also offered as MK432; may not be taken for duplicate credit)

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MG 437 Operations Management System

3c-01-3sh

Prerequisite: MG330

Theoretical and practical understanding of manufacturing and service planning and control, including systems modeling, purchasing and sourcing, information and control including MPS, MRP, and MRP-II, scheduling, etc. Manufacturing and service technologies and trends are also emphasized. Computer applications are used for understanding the interrelationships between various components of operations system.

MG 452 Comparative Management

3c-01-3sh

Prerequisite: MG350

Study of the similarities and differences among managers, management practices, and organizations in different cultures. A variety of comparative management systems, models, and theories are presented, and research findings are examined.

MG 454 International Competitiveness

3c-31-3sh

Prerequisite: MG350

Study of the most important challenges that face nations and firms alike in gaining or restoring competitiveness. Focuses on factors that determine the success of nations and their firms in highly dynamic world markets. Various theories, models, and cases dealing with competitive advantage are examined.

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MG 459 Seminar in International Management

3c-01-3sh

Prerequisites: MG454, senior standing

Analysis of recent literature and developments related to global business issues such as strategic alliances, human resource management in global environments, global assignments, Japanese business system, multinational corporations in the world economy.

MG 481 Special Topics in Management

var-1-3sh

Covers advanced, innovative, or exploratory topics and disciplines within management. Specific content items developed by instructor. Credits may be applied to either required (by permission of department chairperson) or free electives in a student's program.

MG 482 Independent Study

var-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office
Individual research and analysis of contemporary problems and issues in a concentrated area of study under the

guidance of a senior faculty member. Approval is based on academic appropriateness and availability of resources.

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MG 492 Small Business/Entrepreneurship Internship

var-3-12sh

Prerequisites: MG403, permission of department chairperson, 2.75 overall QPA, all other requirements of the Eberly College of Business

This course involves practical entrepreneurial experience of on-site consulting with small business firms. Students will generally work for a semester on functionally related topics in accounting, finance, marketing, and MIS or on general topics such as business planning, forecasting, policy, and general management.

MG 493 Management Internship

var-3-12sh

Practical experience to develop knowledge and skills in the application of theory to actual problems in a nonclassroom setting. A maximum of 3sh of internship in the student's major may be applied toward the management and human resource management major area elective requirements. Additional internship credit must be used as free electives only. Admission only by permission of the department chairperson and dean, Eberly College of Business.

MG 495 Business Policy

3c-01-3sh

Prerequisites: Completion of all Business Core requirements or permission; graduating seniors

A capstone case analysis course designed to give the student practice in applying business theories to the solution of management problems. An analysis of how top management determines strategy and policy and influences the philosophy and character of the company. To develop in the student a general management viewpoint that integrates the various functions of the organization.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Marketing

Department of Marketing Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MK320](#) [MK321](#) [MK350](#) [MK420](#) [MK421](#) [MK422](#) [MK430](#) [MK431](#) [MK432](#) [MK433](#) [MK434](#) [MK481](#) [MK482](#) [MK493](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

MK 320 Principles of Marketing

3c-0l-3sh

Prerequisite: EC122

Study of those activities necessary to the design, pricing, promotion, and distribution of goods and services for use by organizations and ultimate consumers.

MK 321 Consumer Behavior

3c-0l-3sh

Prerequisites: MK320 and PC101

Survey of noteworthy contributions of behavioral science and research on consumer purchasing and decision-making process, with particular attention to formal and informal influence patterns.

MK 350 International Business

3c-0l-3sh

Prerequisite: MG310

A study of the international dimensions of business and the critical environmental and organizational factors that affect managerial approaches in the international arena. Focuses upon the management problems stemming from the movement of goods, human resources, technology, finance, or ownership across international boundaries. (Also offered as MG350)

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MK 420 Marketing Management

3c-0l-3sh

Prerequisites: MK320 and MK321

Analysis of marketing and operational problems and policies involved in planning, organizing, coordinating, and controlling a total marketing program.

MK 421 Marketing Research

3c-0l-3sh

Prerequisites: MK320 and QB215

Nature, methods, analysis, and application of present-day marketing research techniques utilized in the solution of practical marketing problems.

MK 422 Seminar in Marketing

3c-0l-3sh

Prerequisites: MK420 and MK421, graduating senior

A terminal course designed for majors in marketing; considers current literature in the field, case problems pertaining to the total marketing effort, and current problems of actual companies.

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MK 430 International Marketing

3c-0l-3sh

Prerequisite: MK320

International marketing and markets are analyzed. Special consideration is given to the significance of government regulations; organization structures of export and import enterprises; and credit policies.

MK 431 Industrial Marketing

3c-0l-3sh

Prerequisite: MK420

Concerned with the major activities involved in the marketing of industrial goods and services, including the industrial marketing system, marketing information needs of the industrial firm, industrial marketing implementation and control, and channel, pricing, product, and promotional strategies for industrial goods.

MK 432 Business and Society

3c-0l-3sh

Overview of the interactions between business and the larger social system in which it operates. Considers the problems, solutions, and future directions of societal issues and their relationships to the business environment. Topics discussed include consumerism, the morality of advertising, self-regulation, pollution and ecology, overpopulation, government regulation, and the social and ethical responsibilities of business and industry. (Also offered as MG432; may not be taken for duplicate credit)

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MK 433 Advertising

3c-0l-3sh

Prerequisite: MK320

Introduction to the principles, practices, and creations of advertising. Use of various media and legal, economic, social, and ethical aspects of advertising are also considered.

MK 434 Marketing Logistics

3c-0l-3sh

Prerequisites: Junior/senior standing, MK320 and MG330

The focus of this course is on planning, organizing, and controlling the marketing logistics function. In addition to the acquisition and application of management science methods, students will integrate and apply previously gained knowledge to analyze and solve complex marketing logistics problems. Areas of major concentration include facility location, transportation, inventory management, and customer service.

MK 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Covers advanced, innovative, or exploratory topics and disciplines within marketing. Specific content items developed by instructor. Credits may be applied to either required (by permission of departmental chairperson) or free electives in a student's program. Special topics numbered 481 are primarily for upper-level undergraduate students.

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MK 482 Independent Study

var-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office.

Approval is based on academic appropriateness and availability of resources.

Individual research and analysis of contemporary problems and issues in a concentrated area of study under the guidance of a senior faculty member.

MK 493 Marketing Internship

var-3-12sh

Practical experience in the marketing field to develop knowledge and experience in the practical application of theory to actual problems in a nonclassroom situation. A maximum of 3sh of internship in the student's major may be applied toward the marketing major-area elective requirements. Additional internship credit must be used as free electives only. Admission only by permission of the department chairperson and the dean, Eberly College of Business.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Quantitative/Business

Department of Management Information Systems and Decision Sciences
Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[QB215](#) [QB281](#) [QB380](#) [QB401](#) [QB481](#) [QB482](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

QB 215 Business Statistics

3c-0l-3sh

Prerequisites: MA121, MA214

Expands upon the probabilistic concepts developed in MA214 to orient the student toward managerial decision making using quantitative methodologies. Topics covered include classical regression analysis, forecasting, Bayesian decision theory, linear programming, and simulation.

QB 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are primarily for lower-level undergraduate students.

QB 380 Introduction to Management Science

3c-0l-3sh

Prerequisite: QB215

Discussion and application of mathematical models used in managerial decision making. Linear programming, Markov processes, queuing theory, EOQ models, and simulation techniques are among the topics covered.

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QB 401 Forecasting Methods for Business

3c-0l-3sh

Prerequisite: QB 215

This course is designed to train the students to understand the nature of forecasting problems and the techniques of forecasting methods and their business applications. Computer statistical packages are incorporated into the course so that forecasting methods and models can be applied to real-world problems, and the relationships that exist between variables can be examined.

QB 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

QB 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Industrial and Labor Relations

Department of Industrial and Labor Relations
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[LR281](#) [LR426](#) [LR480](#) [LR481](#) [LR482](#) [LR499](#)

LR 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

LR 426 Case Studies in Labor-Management Relations

3c-0l-3sh

In-depth study of daily labor-management relationships in a variety of organizational settings through utilization of case study technique. Focuses on a problem-solving approach to the legal and contract administration components of the labor-management relationship.

LR 480 Principles and Practices of Collective Bargaining

3c-0l-3sh

An examination of the historical, legal, and functional parameters of collective bargaining. Topics covered include the organizing process, negotiations, contract administration, dispute resolution, and public sector labor relations.

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LR 481 Special Topics in Industrial and Labor Relations

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

LR 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

LR 499 Independent Study

var-1-3sh

Independent reading and research under the direction of a faculty member.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Safety Sciences

Department of Safety Sciences
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[SA101](#) [SA102](#) [SA111](#) [SA210](#) [SA211](#) [SA231](#) [SA232](#) [SA245](#) [SA281](#) [SA299](#) [SA301](#) [SA303](#) [SA311](#) [SA345](#) [SA347](#)
[SA370](#) [SA380](#) [SA399](#) [SA401](#) [SA402](#) [SA412](#) [SA441](#) [SA461](#) [SA462](#) [SA472](#) [SA481](#) [SA482](#) [SA488](#) [SA493](#)

SA 101 Introduction to Occupational Safety and Health

3c-0l-3sh

Covers the theory and history of occupational hazard control, effects of hazards and failures on organizational control and productivity, safety and health legislation, and accident causation. The course also previews aspects of recognizing, evaluating, and understanding control of safety and health hazards, acquiring hazard data, and the use of hazard analytical tools. Communication techniques in safety and health management are stressed, along with the development of safety and health programs.

SA 102 Introduction to Mine Safety and Health

3c-0l-3sh

Designed to provide the student with an in-depth background of the problems involving mine safety. An historical approach to coal and mineral mining is reviewed; legislative influences such as the Federal Coal Mine Health and Safety Act, the Metal and Nonmetal Mine Health and Safety Act, and the Occupational Safety and Health Act are discussed in depth; mining techniques, methods, and systems are discussed. Management of mine health and safety programs is presented. Federally mandated training of employees is covered. [Offered occasionally]

SA 111 Principles of Industrial Safety I

3c-0l-3sh

Prerequisite: SA101

Stresses an understanding of the complexity of the industrial hazard control problem by thoroughly examining elements of safety and health enumerated in the OSHA promulgated standards and various consensus standards. Emphasis directed at plant layout and design, powered industrial vehicles, boilers and unfired pressure vessels, machine guarding, robotics safety, and an introduction to industrial processes.

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SA 210 Environmental Safety and Health Regulations

3c-0l-3sh

Prerequisites: CH102, SA101, or permission of instructor

This course offers the student a practical approach to the understanding of, and compliance with, the various environmental regulations that impact on business. A thorough discussion of the definitions, categories, and evaluation of hazardous materials is included. Environmental laws covered include the Clean Water Act, the Clean Air Act, the Resource Conservation and Recovery Act, the Comprehensive Environmental Response, the Compensation and Liability Act, the Occupational Safety and Health Act, and other related laws.

SA 211 Principles of Industrial Safety II

3c-0l-3sh

Prerequisite: SA111

Stresses an understanding of the complexity of the industrial hazard control problem by thoroughly examining elements of safety and health enumerated in the OSHA promulgated standards and various consensus standards. Emphasis is placed on personal protective equipment, welding and cutting, walking and working surfaces, materials handling and storage, electrical safe work practices, and construction safety. Application of hazard control strategies is accomplished in laboratory sessions.

SA 231 Principles of Mine Safety I

3c-0l-3sh

Prerequisite: SA102

Focuses on the various aspects of mining operations such as slope and shaft development; mine design; ground control; hoisting; man-trips; haulage; mining equipment; mine emergency planning and procedures; mine communications and maintenance. [Offered occasionally]

SA 232 Principles of Mine Safety II

3c-0l-3sh

Prerequisite: SA102

Covers surface mining operations such as slope stability, equipment, ground water, and control. Mine-related processing operations are discussed. Provides an in-depth study of the various controls of electrical hazards and ignition sources such as permissible equipment and electrical distribution systems. The uses of explosives and blasting practices, handling, storing, and transportation with emphasis on causes of explosion involving dust and gases are discussed. [Offered occasionally]

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SA 245 Product Safety

3c-0l-3sh

Prerequisite: MA217

Traces flow of applicable legislation dealing with consumerism and product safety. Corporate liability for product safety emphasized through case studies. Student familiarized with evolving role of Consumer Product Safety Commission. Corporate management of product development and safety detailed with emphasis on systems safety analysis, standards, and product testing.

SA 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

SA 299 Cooperative Education I

0c-0l-0sh

Prerequisites: Approval of academic adviser, co-op coordinator, and department chairperson

The initial experience in a program designed to combine classroom theory with practical application through job-related experiences. The course is open to SA majors and minors usually in their sophomore year. Students are employed by organizations outside western Pennsylvania where there is an ongoing hazard control program under the direction of an experienced professional. The student is required to be in good academic standing and to serve a minimum of two alternating work experiences.

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SA 301 Health Hazard Identification

3c-01-3sh

Prerequisites: CH102, PY111, MA122, BI155

Provides an understanding of the primary health hazards found in industry and their effects on the human body. Students learn to recognize hazards involved with air contaminants, noise, heat, radiation, chemicals on the skin, and other stressors. Emphasis is placed on the study of occupational disease, industrial toxicology, and use of threshold limit values.

SA 303 Control of Health Hazards

3c-01-3sh

Prerequisites: SA301, PY112, MA217

Study of engineering, administrative, and personal protective equipment as methods of reducing or eliminating hazards to the health of industrial workers. Topics covered include industrial ventilation, noise control, heat control, radiation control, personal protective equipment, and industrial health program.

SA 311 Industrial Fire Protection

3c-01-3sh

Prerequisites: CH102, PY112, SA211

Introduces fundamental concepts in protection of industrial workers and property from fire and explosion. Fire chemistry, control of ignition sources in industry, and properties of combustible materials are discussed. Fire detection and extinguishment are covered along with building construction for fire prevention, life safety, fire codes, and related topics.

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SA 345 Systems Safety Analysis

2c-31-3sh

Prerequisites: SA111, SA211, MA217

Focuses on the evaluation of system designs using detailed system analysis techniques. Topics covered include system definition, economics of systems safety, systems safety methodology, mathematics of systems analysis including statistical methods, Boolean Algebra, and reliability. Skills gained include the ability to perform preliminary hazard analysis, failure mode and effect analysis, fault tree analysis, and exercises in the application of fault tree analysis to hardware and man/machine systems. Practical analysis work is accomplished in laboratory sessions.

SA 347 Ergonomics

2c-31-3sh

Prerequisites: SA301, BI155

An exploration of the principles which control human performance and its effect upon the safety and reliability of systems. Engineering anthropometry, human perception, biomechanics of motion and work posture, work physiology and human performance measurement are covered in the context of their application in workplace design. Students will be instructed in methodologies for analysis of tasks and human performance requirements. Important human limitations and ergonomic hazard evaluations, such as lifting and repetitive motion tasks, are studied in laboratory sessions.

SA 370 Fleet Safety

3c-01-3sh

Prerequisites: SA101, junior standing

Includes topics involved with the development and operation of motor fleet safety programs: driver selection and

training, accident investigation and recordkeeping, equipment safety features, preventive maintenance, and driver incentive programs.

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SA 380 Institutional Safety Management

3c-0l-3sh

Prerequisite: Junior standing

Historical aspects of safety for both private and public institutions; introduction to trends in liability and institutional safety regulations. Distinctions will be made between employee, visitor, and patient hazards and their control.

SA 399 Cooperative Education II

0c-0l-0sh

Prerequisite: SA 299

A second experience in a program designed to combine classroom theory with practical application through job-related experiences. The course is open to SA majors and minors usually in their junior or senior year. Students are employed by organizations outside western Pennsylvania where there is an ongoing hazard control program under the direction of an experienced safety professional. The student is required to be in good academic standing and to serve a minimum of two alternating work experiences.

SA 401 Mine Ventilation

2c-3l-3sh

Prerequisites: PY112, SA102, MA122, or consent

Study of mine ventilation principles and practices which provide a basic knowledge in design and operation of mine ventilation systems. The topics of airflow physics, ventilation standards, fan fundamentals, pressure losses, required air flows, and overall design are discussed. Specific problems in mine ventilation will be solved. [Offered occasionally]

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SA 402 Health Hazard Evaluation

2c-3l-3sh

Prerequisites: SA301, PY112, MA217

A lecture/laboratory course which provides a basic understanding of techniques used in measuring and evaluating the magnitude of health hazards in industry. Laboratory sessions provide experience in air sampling, noise measurement, heat measurement, particle size analysis, chemical analysis, and evaluation of industrial ventilation systems.

SA 412 Evaluation of Safety Program Effectiveness

3c-0l-3sh

Prerequisites: MA217, MG311, junior standing

Teaches various safety management techniques to identify and prevent the occurrence of hazardous behavior and conditions. Devises methods capable of extracting accurate, meaningful data, methods of collecting, codifying, and processing hazard and loss incident information, and utilizing data retrieval systems to be used in cost/benefit decision-making for hazard prevention, safety program and performance evaluation, and risk management.

SA 441 Accident Investigation

3c-0l-3sh

Prerequisites: SA101, junior standing or consent

Focuses on various aspects of accident investigation such as recent theories associated with accident causes, investigative techniques, data acquisition, structure of investigative reports, management responsibilities, and remedial actions. Particular emphasis on determining sequence of events to develop management actions which will prevent recurrence of accidents.

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SA 461 Air Pollution

3c-0l-3sh

Prerequisite: SA301 or consent

Focuses on various major aspects of the air pollution problem. Includes sources of pollution, evaluation and engineering of pollutants, government regulations, atmospheric chemistry and dispersion, and human and nonhuman effects. Particular emphasis on information that is practical for the safety management, industrial health, or environmental health professional.

SA 462 Radiological Health

3c-0l-3sh

Prerequisite: SA301 or consent

Study of problems associated with ionizing radiation in human environment. Emphasis given to biological effects, radiation measurement, dose computational techniques, exposure control, and local and federal regulations. Study and use of various radiological instruments included.

SA 472 Process Safety in the Chemical Industry

3c-0l-3sh

Prerequisites: SA301, SA311, SA345, and senior standing, or permission of instructor

This course is designed to cover all important aspects of loss prevention as it is practiced in the chemical process industries. Its objective is to prepare the safety professional so that he/she may be able to work more effectively with chemists and chemical engineers in joint hazard identification, evaluation, and control projects.

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SA 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

SA 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

SA 488 Internship

12sh

Prerequisites: Senior standing, all required courses in major, minimum of 2.8 overall and 3.0 GPA in major, and consent

This course is a practicum conducted at an approved occupational setting up to 500 miles away from IUP. Students are required to conduct four major projects over the course of the summer. One project will be from each of the following areas: Safety Management, Industrial Safety, Industrial Hygiene, and Fire Protection. Students are accountable to an on-site supervisor and are required to remain in close contact with a Safety Sciences faculty coordinator. Offered in summer only.

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SA 493 Internship

var-6sh

Prerequisite: Senior standing, all required courses in major

All Safety Sciences majors are expected to take this course. It is conducted away from the university at various industrial enterprises. Students are required to provide their own transportation. Intended to allow the student to apply hazard assessment and safety management practices to actual industrial situations while at same time being exposed to complexities of industrial environment.

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Distributive Education

Department of Office Systems and Business Education Eberly College of Business

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[DE281](#) [DE331](#) [DE332](#) [DE333](#) [DE413](#) [DE481](#) [DE482](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

DE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

DE 331 Modern Merchandising

3c-0l-3sh

Techniques for planning and controlling inventory, analyzing sales, working with modern systems for handling cash, and using color, line, and design. Practice in preparing merchandise display units.

DE 332 Retail Management

3c-0l-3sh

Prerequisite: DE331 or 333

Study of structure and changing environment of retailing; special emphasis on merchandise management, organization, sales promotions, services, and control.

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DE 333 Principles of Selling

3c-0l-3sh

Covers field of selling, preparing to sell, the selling process, and an introduction to sales management. Sales demonstrations incorporating audiovisual aids are a part of the course.

DE 413 Methods and Evaluation in Distributive Education II

3c-0l-3sh

Prerequisites: BE111, MK320, DE333, and EP202

Includes two sections of special methods and evaluation in this field. Objectives are to acquaint students with the basic principles of group and individual instruction in various subject matter areas, as well as methods of presentation. Unit plans, lesson plans, demonstrations, and evaluations will be prepared. Students select sections needed for certification.

DE 481 Special Topics

3c-01-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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DE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Office Systems

Department of Office Systems and Business Education Eberly College of Business

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[OS281](#) [OS301](#) [OS313](#) [OS315](#) [OS400](#) [OS411](#) [OS412](#) [OS413](#) [OS480](#) [OS481](#) [OS482](#) [OS493](#)

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

OS 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Prerequisite: As appropriate to course content Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

OS 301 Advanced Microcomputer Applications

3c-0l-3sh

Prerequisite: BE/CO/IM 101, or permission of instructor

Advanced applications of microcomputing software from the user perspective to enhance productivity of office employees, executive and managerial, professional, and support personnel. Comparative and evaluative techniques for appropriate selection and implementation of software. Word processing, spreadsheet, database, desktop publishing, utility, and operating system software will be emphasized.

OS 313 Office Systems Technologies

3c-0l-3sh

Prerequisite: Junior standing

Emphasis on systems hardware, especially the microcomputer. Concepts and design principles common to all microprocessors are studied. Auxiliary hardware, such as reprographics, printers, modems, scanners, and laser technology will be included.

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OS 315 Records Administration

3c-0l-3sh

Prerequisite: BE/CO/IM101 or permission of instructor

Development of the goal of records administration as a system including the input, process, and output components. Records creation, records classification systems, evaluation, retention programs, manual through automated information systems, image technology, form design, record control systems, records manuals, and disaster prevention and recovery will be discussed. (Offered as OS415 prior to 1995-96)

OS 400 Telecommunications

3c-0l-3sh

Prerequisite: BE/CO/IM101

Knowledge and concepts of telecommunications technology, applications, and management as they apply to office systems.

OS 411 Microcomputer Support for Office Systems

3c-0l-3sh

Prerequisites: OS301, OS313, and OS400

Includes three dimensions of study relative to office systems—helpdesk management, training and development, and ergonomics. Incorporates practical applications for delivering technical support through the operation of a helpdesk. Requires development and delivery of technological applications and a field study of ergonomic office designs.

OS 412 Administrative Office Services

3c-0l-3sh

Presentation of fundamental principles and practices used in the development of an office. Specialized areas such as systems analysis, work simplification, forms design, information processing, office machines and equipment, records management, office design and layout, office location and physical environment, office supervision, office manuals, and development of office personnel will be discussed.

OS 413 Information Processing Technology

3c-0l-3sh

A comprehensive study of information processing including equipment selection/functions, personnel, and procedures.

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OS 480 Seminar in Office Systems

3c-0l-3sh

Prerequisites: Graduating seniors only or permission of instructor

Emphasis on the solving of office management problems. Provides an opportunity to integrate and apply the skills and knowledge previously gained in the Office Systems major. (Offered as AD430 prior to Summer, 1991; offered as OS430 until 1995)

OS 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

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OS 482 Independent Study

var-3sh

Prerequisite: Prior approval through adviser, faculty member, department Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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OS 493 Internship

var-3-6sh

Prerequisites: Approval of internship coordinator, chairperson, and dean and 2.75 overall GPA and 3.0 GPA in Business

A supervised office experience program with an approved agency (business, industry, and government).

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Educational and School Psychology

Department of Educational and School Psychology
College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EP202](#) [EP281](#) [EP373](#) [EP376](#) [EP377](#) [EP378](#) [EP383](#) [EP384](#) [EP481](#) [EP482](#) [EP499](#)

EP 202 Educational Psychology

3c-0l-3sh

Prerequisites: PC101, admission to sophomore standing in teacher certification or permission

Designed to promote a better understanding of the principles of psychology governing human behavior, with particular emphasis on their relation to learner, learning process, and learning situation in an educational environment. (Offered as EP302 prior to 1992-93)

EP 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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EP 373 Psychology of Adolescent Education

3c-0l-3sh

Prerequisite: EP202

Study of significant characteristics, behavior, and educational and social problems of adolescents.

EP 376 Behavior Problems

3c-0l-3sh

Prerequisite: EP202

Examination of emotional and social aspects of behavior problems encountered in classroom situations and potential remedial techniques.

EP 377 Educational Tests and Measurements

3c-0l-3sh

Prerequisites: PC101, admission to junior standing in teacher certification or permission

Designed to acquaint students with major methods and techniques of evaluation used to assess and report growth, development, and academic achievement of individuals in an educational environment. Includes interpretation of standardized test information.

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EP 378 Learning

3c-01-3sh

Prerequisite: EP202

Explores learning theories and educational application in the classroom.

EP 481 Special Topics in Educational Psychology

var-1-3sh

Prerequisite: Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

EP 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

EP 499 Independent Study

var-1-3sh

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Foundations of Education

Department of Foundations of Education College of Education

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[FE202](#) [FE281](#) [FE440](#) [FE441](#) [FE442](#) [FE454](#) [FE456](#) [FE481](#) [FE482](#)

FE 202 American Education in Theory and Practice

3c-0l-3sh

Prerequisites: Students must have sophomore status and be enrolled in a teacher certification program

Provides an introduction to some of the major traditional and contemporary philosophic concepts which have played a role in the formation of educational policies and practices. Emphasis on the relationship between educational theory and practice in such areas as the role of the school in society, curricular content, teaching and learning methodology, educational goals, and professionalism.

FE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

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FE 440 Orientation to Teaching in Urban Centers

3c-0l-3sh

Provides students with an understanding of learners and their unique learning needs and conditions. Emphasis on understanding the origin of attitudes and values and how these affect the relationships which exist between students and teachers. Special attention to practical application of theoretical information to problems of urban education. Field trips and guest speakers will be emphasized.

FE 441 Field Experiences in Urban Centers

var-6sh

Prerequisite: FE440

Provides specialized experience for students desiring to teach in inner-city schools. Aspects to be emphasized include physical characteristics of community, background and aspirations of children and youth, and specialized teacher competencies, classroom management, planning, instructional materials, teaching strategies, and evaluations. Records of comprehensive experiences in urban areas will be considered in making field experience assignments. Schools selected for student experience will be located in Pittsburgh.

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FE 442 Interpreting Urban/Field Experiences

var-3sh

Prerequisites: FE440, 441

Evaluation of learning and behavior problems encountered during field experience in urban schools. Flexible approach stressed to encourage wide range of investigation and exploration of psychological and sociological problems as they affect education. Supervision and guidance for investigating specific problems provided by specialists from psychology, sociology, and education who will function as resource personnel giving direction. Enables students to combine experiences gained by teaching in urban schools with recent and pertinent theoretical information.

FE 454 Public School Administration

3c-0l-3sh

Study of the development of public school administration; current organizational patterns for public education at the local, county, state, and national levels; and the impact of administration upon the total educational program.

FE 456 Issues and Trends in Education

3c-0l-3sh

Critical analysis of issues and trends in education with emphasis on philosophical and social dimensions of topics covered. Attention to work of some major contemporary critics of education.

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FE 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

FE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Education of Exceptional Persons

Department of Special Education and Clinical Services
College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EX111](#) [EX112](#) [EX221](#) [EX222](#) [EX231](#) [EX300](#) [EX301](#) [EX321](#) [EX340](#) [EX415](#) [EX416](#) [EX417](#) [EX418](#) [EX419](#) [EX425](#)
[EX435](#) [EX440](#) [EX480](#) [EX481](#)

EX 111 Introduction to Exceptional Persons

3c-0l-3sh

Prerequisite: For department majors and official incoming transfers only

Surveys characteristics, needs, problems, and behavior patterns of any person who deviates sufficiently from "normal" to be considered exceptional. Consideration to those who fall intellectually both above and below average and to those who are handicapped visually, acoustically, behaviorally, orthopedically, neurologically, or in respect to speech patterns. (Offered as EX120 prior to 1993-94)

EX 112 Typical and Atypical Growth and Development

3c-0l-3sh

Prerequisites: EX111, PC101

Presents foundations of human growth from conception, including basic embryogenesis, up to but not including adolescence. Considers the biological, cultural, educational, and parenting influences that shape the child, as well as selective examples of normal and deviant physical and intellectual development. (Offered as EX220 prior to 1993-94)

EX 221 Methods of Teaching Mathematics to Persons with Disabilities

3c-0l-3sh

Prerequisites: MA151, EX111

Emphasizes recent developments in elementary curriculum and instructional techniques for developing concepts; implications of recent resource developments and materials helpful to the prospective special education teacher. Emphasis is also placed on methods of helping children learn mathematical concepts through physical activity and on ways to adapt regular classroom materials to meet needs and abilities of slow and disabled learners. (Offered as EX240 Teaching Mathematics for the Mentally and/or Physically Handicapped prior to 1993-94)

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EX 222 Methods of Teaching Reading to Persons with Disabilities

3c-0l-3sh

Prerequisite: Sophomore status or above

Presents basic concepts of developmental reading instruction and systematic coverage of the methods of teaching reading from readiness stages through eighth grade. Diagnostic-prescriptive techniques are included. (Offered as EX251 Methods of Teaching Reading prior to 1993-94)

EX 231 Methods of Teaching Content Area Subjects to Persons with Disabilities

3c-0l-3sh

Prerequisites: EX111, GPA 2.5

Presents methods for teaching science and social studies to the mentally and/or physically handicapped. Scope and sequence of content, as well as evaluative techniques for each content area, are studied. Integration of other content areas and skill areas is stressed. Also stresses teaching in both resource room and less restrictive environments. (Offered as EX322 prior to Spring, 1998)

EX 300 Education of the Exceptional in the Regular Classroom

3c-0l-3sh

Prerequisites: For Early Childhood and Elementary Education Majors only; to be taken only during the semester of the designated methods courses

Examines the issues associated with education of students with diverse learning needs, particularly those with disabilities or who are at risk for school failure. There is an emphasis on special education, particularly the legal rights of students with exceptionalities and their parents, and the responsibilities educators in addressing those rights. The course examines the differential impact of student characteristics on elementary-level school performance and instructional methods proven to be effective in educating students with disabilities and learning style differences.

EX 301 Education of Students with Disabilities in Inclusive Secondary Settings

2c-0l-2sh

Prerequisite: For Secondary Education Majors and others who will be certified to teach content from K-12

Recommendation: It is strongly recommended that students take this course in the same semester of the designated methods course. This course examines the issues associated with education of students with diverse learning needs, particularly those with disabilities or who are at risk for school failure. There is an emphasis on special education, particularly the legal rights of students with exceptionalities and their parents, and the responsibilities of educators in addressing those rights. The course examines the differential impact of student characteristics on secondary-level school performance and instructional methods proven to be effective in educating students with disabilities and learning style differences.

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EX 321 Methods of Teaching Language Arts to Persons with Disabilities

3c-0l-3sh

Prerequisites: EX111, EX222, and SH254, GPA 2.5

Review of typical and atypical characteristics of the handicapped in relationship to the language arts. Deals with preparation and execution of units of instruction in language arts for mentally and/or physically handicapped persons. Diagnostic and prescriptive approaches are included; integration of language arts with a highlight on reading is stressed. (Offered as EX353 Reading and Other Language Arts for the Mentally and/or Physically Handicapped prior to 1993-94)

EX 340 Introduction to Behavior Management in Special Education

3c-0l-3sh

Prerequisites: EX111, EX112, EP202, GPA 2.5

An overview of systematic behavioral change techniques for use with students in a variety of special education settings including integrated, resource, self-contained, special school, and residential. Emphasizes a case analysis approach to creating and evaluating behavioral changes for students with mild to severe disabilities.

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EX 415 Preschool Education for Children with Disabilities

3c-0l-3sh

Prerequisite: Departmental permission, GPA 2.5

Provides information on assessment, intervention strategies, curriculum, and prescriptive planning for preschool

children with disabilities. Serves as a course for departmental majors who are specifically interested in early childhood education, as an elective for other interested students in related fields, and as a priority course for Early Childhood Education majors. (Formerly EX464 Preschool Education of the Handicapped)

EX 416 Education of Persons with Emotional or Behavioral Disorders

3c-01-3sh

Prerequisite: Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of emotional and behavioral disorders, definition and identification of the population, and educational approaches. Reviews research in the field, including current issues, trends, practices, and services. (Formerly EX341 The Socially and Emotional Maladjusted)

EX 417 Education of Persons with Mental Retardation or Developmental Disabilities

3c-01-3sh

Prerequisite: Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of mental retardation and developmental disabilities, including autism. Definition, identification, and educational approaches are discussed. Reviews research in the field, including current issues, trends, practices, and services. (Formerly EX457 Severe and Profound Retardation and Multiple Disabilities)

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EX 418 Education of Persons with Physical or Multiple Disabilities

3c-01-3sh

Prerequisite: Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of a wide and diverse range of physical/multiple disabilities, the definition and identification of the population, and educational approaches. Reviews research in the field, including current issues, trends, practices, and services. (Formerly EX430 Physical Disabilities and Psychological Handicaps)

EX 419 Education of Persons with Brain Injuries or Learning Disabilities

3c-01-3sh

Prerequisite: Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of neurological and learning disabilities, definition and identification of the population, and educational approaches. Reviews research in the field, including current issues, trends, practices, and services. (Formerly EX454 The Brain Injured and the Learning Disabled)

EX 425 Methods and Curriculum (Mild-Moderate Disabilities)

3c-01-3sh

Prerequisites: EX221, 222, 321, 322, 340, GPA 2.5

Provides in-depth examination of assessment methods, strategies, and curricula. Emphasizes assessment methods and strategies used in a variety of service models that serve elementary- and secondary-level students with learning disabilities, behavioral disorders, mild mental retardation, and high-function autism. (Formerly EX450 Methods and Curriculum Planning for Mildly and Moderately Handicapped)

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EX 435 Methods and Curriculum (Severe-Profound Disabilities)

3c-01-3sh

Prerequisites: EX221, 222, 322, 321, 340, GPA 2.5

Emphasizes methods designed to facilitate the development of an integrated, functional, and community-based curriculum that will prepare students for participation in a wide variety of postschool environments.

EX 440 Ethical and Professional Behavior

1c-0l-1sh

Prerequisites: Departmental permission, GPA 2.5

Emphasis on ethical and professional behavior for student teachers and professional employees. Possibilities for and methods of initiating and profiting from postbaccalaureate study are indicated. Student teachers are required to complete and present a curriculum book regarding each student-teaching experience. (Offered as EX490 prior to 1993-94)

EX 480 Seminar in Special Education

var-1-3sh

Prerequisite: Departmental permission

Interested students may use this course for the pursuit of knowledge regarding specific concerns of the exceptional which are not ordinarily considered in such detail during regular classroom instruction. Students wishing to enroll are expected to submit a written proposal regarding their desire for study at the time permission for enrollment is sought. With permission, the course may be repeated for credit. (Previous title: Selected Problems)

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EX 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students

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Brenda L. Carter, Dean
Alphonse N. Novels, Associate Dean
Vacant, Associate Dean

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College of Natural Sciences and Mathematics

John S. Eck, Dean

Aleksandra B. Kaniasty, Assistant Dean

Raymond P. Pavloski, Dean's Associate

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The College of Fine Arts

Charles E. Cullum, Interim Dean
Douglas E. Bish, Associate Dean

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 - [Department of Art](#)
 - [Bachelor of Arts--Art/History Track](#)
 - [Bachelor of Arts--Art/Studio](#)
 - [Bachelor of Fine Arts--Studio](#)
 - [Bachelor of Science in Education--Art Education](#)
 - [Department of Music](#)
 - [Bachelor of Arts--Music/History and Literature Track](#)
 - [Bachelor of Arts--Music/Music Performance Track](#)
 - [Bachelor of Arts--Music/Theory and Composition](#)
 - [Bachelor of Fine Arts--Music Performance](#)
 - [Bachelor of Science in Education--Music Education](#)
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 - [Bachelor of Arts](#)
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The Eberly College of Business

Robert C. Camp, Dean
Manmohan D. Chaubey, Associate Dean

- [Eberly College of Business](#)

Degrees offered

- [Bachelor of Science Degree](#)
- [Bachelor of Science in Education Degree](#)
- [Associate of Arts Degree](#)
- [Student Advisement and Internship Office](#)
- [Service Units](#)
- [Department of Accounting](#)
 - Accounting
 - [Bachelor of Science](#)
- [Department of Finance and Legal Studies](#)
 - Finance
 - [Bachelor of Science](#)
 - Pre-Law/Business
 - [Bachelor of Science](#)
 - [Minor](#)
- [Department of Management](#)
 - [Bachelor of Science in Management](#)
 - [Bachelor of Science in Human Resources Management](#)
 - [Bachelor of Science in International Business](#)
- [Department of Management Information Systems and Decision Sciences](#)
 - [Bachelor of Science in Management Information Systems](#)
- [Department of Marketing](#)
 - [Bachelor of Science in Marketing](#)
- [Department of Office Systems and Business Education](#)
 - [Office Systems](#)
 - [Bachelor of Science](#)
 - [Associate of Arts in Business](#)
 - [Minor](#)
 - [Business Education](#)
 - [Bachelor of Science in Education](#)
 - [Practical Business Experience](#)
- [Business Minors for Eberly College of Business Students](#)
- [Minor in Business Administration for Non-Business Majors](#)

Vocational Education

Center for Vocational-Technical Personnel Preparation College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[VO010](#) [VO100](#) [VO281](#) [VO395](#) [VO400](#) [VO401](#) [VO402](#) [VO450](#) [VO481](#) [VO482](#)

VO 010 Industrial Electrical Technology

var-1-18sh

Prerequisite: Center/department permission

Emphasis on comprehensive industrial electrical technology through training in specialty concentrations applied to design, development, and testing of electrical circuits, devices, and systems for generating electricity and the distribution and utilization of electrical power. Carries institutional credit only.

VO 100 Preparation of the Vocational Professional I

var-1-15sh

Personalized, self-paced vocational teacher preparation. The vocational student/intern develops, demonstrates, and documents competence in selected pedagogical competencies. Individualized instruction is supplemented with monthly seminars. Self-evaluation is encouraged in the program, utilizing videotaping and the feedback from a team of professional teacher educators.

VO 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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VO 395 Vocational Education Writing Experience

var-0sh

Writing assignments such as abstracts, logs of activities, philosophy papers, training plans, presentation plans, lesson plans, etc., will be completed in conjunction with selected instructional modules from VO100 and VO400 courses.

VO 400 Preparation of the Vocational Professional II

var-1-15sh

Prerequisite: Successful completion of VO 100

Personalized, self-paced vocational teacher preparation. The vocational student/intern develops, demonstrates, and documents competence in selected teaching skills in the areas of program planning, program development, program evaluation, and managing and evaluating instruction in a vocational school setting. Self-evaluation is encouraged in the program utilizing videotaping and the feedback from a team of professional teacher educators.

VO 401 Special Topics in Vocational Technical Preparation

var-1-12sh

Prerequisite: Center permission

Provides opportunities for vocational students/interns to develop additional technical skills in areas related to their occupational competence under professional supervision. Topics are determined through individual counseling, through priority needs identified by advisory committees, and through evaluation of technical competence by center teaching staff.

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VO 402 Special Topics in Vocational Pedagogical Preparation

var-1-15sh

Prerequisite: Center permission

Provides opportunities for vocational students/interns to develop additional teaching skills under professional supervision. Topics are determined through identification of priority areas in vocational education using national and state surveys and students' individual needs.

VO 450 Technical Preparation of the Vocational Professional

24sh

Competency assessment of occupational experience through national standardized written and performance examinations.

VO 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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VO 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Elementary Education

Professional Studies in Education College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EL211](#) [EL213](#) [EL215](#) [EL221](#) [EL222](#) [EL257](#) [EL281](#) [EL312](#) [EL313](#) [EL314](#) [EL322](#) [EL351](#) [EL357](#) [EL411](#) [EL422](#) [EL425](#)
[EL481](#) [EL482](#)

Note: Courses in Elementary Education are restricted to majors with a 2.5 average, except by department permission.

EL 211 Music for the Elementary Grades

2c-0l-2sh

Geared for elementary education students. Includes basic ideas for understanding, development, and confidence for future classroom teachers and their pupils in areas of music education.

EL 213 Art for the Elementary Grades

2c-0l-2sh

The creative use of art materials and an understanding of development of capacities of children through art.

EL 215 Child Development

3c-0l-3sh

Survey of human development, from conception to adolescence, in terms of basic scientific data. Development, growth, and behavior are studied and their implications for home, school, and community are considered.

EL 221 Children's Literature

3c-0l-3sh

Acquisition of a wide acquaintance with children's literature, old and new. Poetry selections, annotated stories, and bibliographies will be assembled. Ways and means to develop, stimulate, and guide children's reading of literature presented. Principles and techniques of successful storytelling are studied and practiced.

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EL 222 Teaching of Reading I

3c-0l-3sh

Systematic coverage of the teaching of reading, including methods, techniques, and materials. First of a two-course sequence.

EL 257 Pedagogy I

3c-0l-3sh

Prerequisite: Junior status

Competencies specific to the science of teaching will be introduced in this course. Students will become familiar with

the fundamentals of teaching across all content area subject matter at the elementary level. Areas that will be explored include models of teaching, including lesson and unit planning, and creating a classroom environment that is conducive to learning. (Offered as EL356 prior to 1997-98)

EL 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

EL 312 Teaching of Elementary Science

2c-01-2sh

Emphasis placed upon science as it relates to child and curriculum, planning for teaching science, and recent innovations in science teaching. Course offered on the junior block only.

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EL 313 Teaching Mathematics in the Elementary School

3c-01-3sh

Prerequisites: MA151, 152

Recent developments in curriculum and methods of instruction of contemporary elementary school mathematics programs. Students will become acquainted with books, materials, and other resources helpful to prospective teachers. Includes observations of master teachers.

EL 314 Teaching of Health and Physical Education

2c-01-2sh

Games, stunts, rhythms, relays, tumbling, dances, and skills suitable for the elementary school child. Teaching of health in elementary school is emphasized, including methods, materials, and lesson planning.

EL322 Teaching of Reading II

3c-01-3sh

Second course of a two-course sequence. Systematic coverage of teaching of reading, including methods, materials, and lesson planning.

EL 351 Creative Activities in the Elementary School

3c-01-3sh

Provides students with a wide range of creative experiences in fields of art, crafts, music, rhythmic, dramatics, and games in elementary school. Stress is placed upon need to help children in developing their capacities for creative expression in these areas.

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EL 357 Pedagogy II

3c-01-3sh

Prerequisite: Junior status

Principles based on classroom experience. Instruction will include classroom management skills, integration of computers in the elementary curriculum, contemporary issues in education, the role of research in elementary classroom teaching, and teacher professionalism during and after field experiences. (This course is writing intensive.)

EL 411 Teaching of Social Studies

3c-01-3sh

Overview of social studies in elementary school. Includes study of objectives, trends, areas of content, patterns and principles of organization, and techniques of teaching. Variety of learning experiences and materials used and evaluated.

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EL 422 Diagnostic and Remedial Reading

3c-01-3sh

Prerequisite: EL222

Causes of reading disability; methods of diagnosis; procedures and materials for remedial work, group and individual.

EL 425 Language Arts Across the Curriculum

3c-01-3sh

Prerequisite: EL222

Places emphasis on the view that the art of communication is an interrelated process and the task of classroom teachers is not only integrating the language arts among themselves but also integrating them throughout the entire curriculum. Techniques for teaching oral and written communication, spelling, handwriting, vocabulary development, listening, and linguistics will be presented. Special emphasis given to recent trends and research. (Replaces EL413 Teaching Language Arts effective Summer, 1992) This course is offered as a writing-intensive course.

EL 481 Special Topics

var-3sh

Prerequisite: Approval of instructor and department

A course/seminar on topics in education appropriate for the Elementary Education setting.

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EL 482 Independent Study

var-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. (Offered as EL481 prior to 1993-94)

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Early Childhood Education

Professional Studies in Education College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EE200](#) [EE220](#) [EE281](#) [EE310](#) [EE311](#) [EE312](#) [EE315](#) [EE451](#) [EE481](#) [EE482](#)

Note: Courses in Early Childhood Education are restricted to majors with a 2.5 average, except by department permission.

EE 200 Introduction to Early Childhood Education

3c-0l-3sh

Introductory course for prospective teachers of young children. Provides students with the opportunity to gain knowledge of historical, sociological, and political aspects of early childhood education. Emphasis on systematically observing, recording, and evaluating children's behavior in classrooms. (Formerly EL353: Preschool Education)

EE 220 Language Development and Children's Literature

3c-0l-3sh

Includes the study of children's language acquisition and children's literature within the context of a developmentally appropriate language arts curriculum, preschool through the primary grades. Strategies for developing children's linguistic competence and integrating literature throughout the early childhood program will be emphasized. Observations, interviews, and teaching experiences are an integral part of the course. (This course is offered as a writing intensive course).

EE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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EE 310 Integrated Curriculum I

3c-0l-3sh

Examines the sequence of cognitive development in children and the implications for instructional programs. Stages of cognitive understanding will be applied to the basic components of numerical concepts and science concepts. Classroom management strategies that can be utilized in varied environments will be stressed.

EE 311 Integrated Curriculum II

3c-0l-3sh

Enables students to realize the importance and relevance of content area subjects as related to the early childhood

years. Planning for teaching with specific emphasis on methods and materials for social and environmental living is introduced. The integration of music and art is emphasized. Values systems and self-esteem are integral to social living.

EE 312 Aesthetic Experiences for Young Children

3c-0l-3sh

An interdisciplinary approach to different forms of creative expression in young children. Art, music, and movement will be analyzed as aesthetic elements in a comprehensive early childhood curriculum. Development of creative potential in both teachers and children will be promoted as a means of enhancing the artist's experiences. Students will expand their use of the arts to enhance the self-esteem and self-worth of the children.

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EE 315 Development and Learning Through Play

3c-0l-3sh

Provides early childhood educators with the knowledge and skills necessary to promote and guide children's play behavior as the child's basic learning mechanism. Emphasis on definitions, theories, and stages of play within the context of social, emotional, physical, and intellectual growth for children aged 0-8 years. Students will observe children at play, design specific learning activities that utilize a play/games format, and direct educational experiences during the supervised field component. (Previous title: Play as Cognitive and Affective Development)

EE 451 Teaching Primary Reading

3c-0l-3sh

A methods course designed to assist students in developing the reading abilities of young children. Deals with instructional issues related to teaching reading and introduces students to varying reading and pre-reading processes which are effective with young children. Also emphasizes diagnostic and assessment strategies for teaching reading.

EE 481 Special Topics

var-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
A course/seminar on topics in education appropriate for the Early Childhood Education setting.

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EE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Education of Persons with Hearing Loss

Department of Special Education and Clinical Services
College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[EH114](#) [EH115](#) [EH244](#) [EH281](#) [EH307](#) [EH308](#) [EH329](#) [EH330](#) [EH331](#) [EH351](#) [EH360](#) [EH365](#) [EH481](#) [EH482](#)

EH 114 Introduction to Persons with Hearing Loss

3c-0l-3sh

Prerequisites: Advisor permission, EH majors only

Deals with the different approaches used in teaching the hearing impaired—manual language, oral language, and total communication. The historical background of each approach is presented with its strengths and weaknesses. Criteria for the use of each approach established in consideration of degree of loss exhibited by the pupil, the age of onset, and the social and psychological implications. (Offered as Introduction to Hearing Impaired prior to 1994)

EH 115 Introduction to Sign Language

1c-0l-1sh

Development of manual dexterity and fluency using fingerspelling. Acquisition of basic sign language vocabulary. Practice in acquiring general information from a signed message and conversing informally on commonly used topics.

EH 244 Intermediate Sign Language

1c-0l-1sh

Prerequisite: EH115

Emphasis on comprehension of signed information and on developing fluency in conveying a message in both signed English and American Sign Language. Modification of signs and individualization of techniques for instruction/communication with learning-impaired or multihandicapped deaf learners.

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EH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

EH 307 Speech for Persons with Hearing Loss

3c-0l-3sh

Prerequisites: EH114, SH242, 2.5 QPA

Techniques for developing, diagnosing, analyzing, and correcting the speech and voice problems of hearing-impaired individuals. Lecture, demonstration, and special projects. (Offered as Speech for the Hearing Impaired prior to 1994)

EH 308 Language for Persons with Hearing Loss

3c-0l-3sh

Prerequisites: EH114, SH334, 2.5 QPA

Development and remediation of language of the hearing impaired. Language sampling and diagnostics, sentence patterning, and analytic vs. natural teaching methods. Structuring a communicative environment. (Offered as Language for the Hearing Impaired prior to 1994)

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EH 329 Hearing Practicum I

var-1sh

Prerequisites: EH114, 115, 2.5 QPA

Provides the student with actual contact with individuals with hearing loss. Practica will be set up in appropriate school programs and/or clinics for the hearing impaired, in hearing itinerant programs, or in clinical settings where hearing-impaired individuals are receiving therapy or are being tested. Techniques of observing and evaluating behavior are presented initially to prepare the student to profit maximally from the observation experiences. Written reports of the practica are submitted and discussed, and each student is encouraged to gain experience in as many different settings as available.

EH 330 Hearing Practicum II

var-1sh

Prerequisites: EH329, 2.5 QPA

Provides students with actual contact with individuals with hearing loss. Practica will be set up in appropriate school programs and/or clinics for the hearing impaired, in hearing itinerant programs, or in clinical settings where hearing-impaired individuals are receiving therapy or are being tested. Techniques of observing and evaluating behavior are presented initially to prepare the student to profit maximally from the observation experiences. Written reports of the practica are submitted and discussed, and each student is encouraged to gain experience in as many different settings as available. This is a continuation of EH329: Hearing Practicum I and includes support and supervision of students in EH329.

EH 331 Advanced Sign Language

1c-0l-1sh

Prerequisites: EH115, 244, 2.5 QPA

Studies the evolution of signs; dialectical sign systems. Analysis and comparison of the linguistic similarities/differences of various sign languages. Direct translation of written or spoken information on specific topics using American Sign Language or Signed English. Practice using conversation on both a social and academic level.

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EH 351 Teaching Reading to Persons with Hearing Loss

3c-0l-3sh

Prerequisite: EH308, 2.5 QPA

Presents basic concepts of developmental reading instruction and systematic coverage of the methods of teaching reading to students with hearing loss from readiness stages through upper school.

EH 360 General Methodology for Education of Persons with Hearing Loss

3c-0l-3sh

Prerequisites: EH114, 307, 308, 2.5 QPA

Provides a systematic coverage of the basic procedures for teaching curriculum subjects. Included are adaptive methods of instruction for teaching mathematics; science as it relates to the child and the curriculum; content, objectives, and resource materials for social studies; creative experiences in the field of language arts, rhythmic, and

physical education and health. (Offered as General Methodology for Education of Hearing Impaired prior to 1994)

EH 365 Parent-Preschool Programs for Persons with Hearing Loss

3c-0l-3sh

Prerequisites: EH 307, EH308, EH114, EX112, SH334, 2.5 QPA

Developing home/clinic programs for parents and hearing-impaired infants (0-3 years). Teaching speech, language, speechreading, use of residual hearing, and developing readiness skills at preschool level. (Offered as Parent-Preschool Programs for the Hearing Impaired prior to 1994)

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EH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

EH 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Rehabilitation

Department of Special Education and Clinical Services
College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[RH200](#) [RH211](#) [RH220](#) [RH281](#) [RH312](#) [RH321](#) [RH322](#) [RH360](#) [RH410](#) [RH412](#) [RH422](#) [RH460](#) [RH481](#) [RH482](#) [RH484](#)
[RH488](#) [RH493](#)

RH 200 Introduction to Rehabilitation

3c-0l-3sh

A foundation for subsequent courses in the rehabilitation sequence. It is also available as a prerequisite or basic course for students interested in the rehabilitation of individuals in our society. Content includes the philosophy, history, major concepts, and current problems and issues.

RH 211 Medical Aspects of Rehabilitation

3c-0l-3sh

Provides an overview of the etiology and pathology of a range of medical disorders which often require rehabilitative services. Emphasis is placed upon the psychosocial and functional effects of these disorders, vocational implications, and rehabilitative needs.

RH 220 Neurological Basis of Disability

3c-0l-3sh

Prerequisites: EX111, RH200, BI155 or HP221

Study of the brain and spinal cord with emphasis on cortical and subcortical mechanisms instrumental in normal motion, coordination, and bodily sensation, exclusive of vision and hearing. Discussion and demonstration of conditions of cerebral palsy, poliomyelitis, traumatic paraplegics, cerebrovascular accident, Parkinson's disease, multiple sclerosis, and rehabilitative procedures.

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RH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

RH 312 Psychological Basis of Disability

3c-0l-3sh

Study of emotional and social responses which govern behavior and relationships of handicapped individuals and rehabilitation workers alike, with emphasis on the role of disability in formation of the concept of human worth.

RH 321 Principles and Methods of Rehabilitation

3c-01-3sh

Prerequisites: RH220, RH312, and permission of instructor

Delineates the roles of members of professional disciplines of medicine, psychology, prosthetics, orthodontics, audiology, speech pathology, physical and occupational therapy in restoration of the handicapped; use of diagnostic information; significance and interpretation of medical examination; role of rehabilitation counselor in the agency.

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RH 322 Rehabilitation Case Study and Interpretation

3c-01-3sh

Prerequisites: RH220, RH312, or permission of instructor

Purpose and techniques of case history taking; meaning and evaluation of diagnostic information; psychological evaluation in terms of mental ability, personality, attitudes, and dexterity skills; role of disabled individual's family in planning of services; referrals and report writing.

RH 360 Rehabilitation Counseling: Strategies

3c-01-3sh

Prerequisites: Permission, Rehabilitation majors only

Designed to help students develop competencies in using various counseling techniques with handicapped persons. Various theories of counseling will be explored relative to the rehabilitation setting. It will provide basic counseling skills to upperclass Rehabilitation majors prior to field training.

RH 410 Vocational Assessment in Rehabilitation Counseling

3c-01-3sh

Prerequisites: EX111, RH220, or faculty permission

Provides students with an overview of vocational assessment techniques and instruments for use with rehabilitation clients who are blind, deaf, mentally retarded, or severely physically handicapped. Includes discussion of rehabilitation evaluation.

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RH 412 Occupational Aspects of Rehabilitation

3c-01-3sh

Prerequisites: RH220 or permission of instructor

The realism of the world of work and relationship of gainful employment to human autonomy and decision making. Types of jobs, levels of required skills, potential capabilities of the disabled relative to specific job responsibilities, methods of assessing potential job success, and sheltered workshops.

RH 422 Current Topics in Rehabilitation

3c-01-3sh

Taken concurrently with RH488 and RH493

Discussion of current topics of interest in the field, such as state and federal legislation, new prosthetic advances, proposals of the National Rehabilitation Association, or recent techniques in working with specific disabilities.

RH 460 Advanced Rehabilitation Counseling

3c-01-3sh

Prerequisite: RH360

Selected counseling techniques studied and practiced under supervision. Application will be utilized in roles that will approximate the kind of clients encountered in field training.

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RH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

RH 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

RH 484 Directed Rehabilitation Activities

var-3sh

Prerequisites: Permission, Rehabilitation majors only

Pre-field training experience working with handicapped clients in local facilities. Concrete experience will help the students integrate classroom instruction with field experiences.

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RH 488 Field Training in Rehabilitation I

var-6sh

Prerequisites: All major courses in program

Emphasizes development of the student rehabilitation coordinator by working with disabled clients in a public or private agency. Writing and analysis of case reports, counseling of clients, understanding of agency responsibilities and limitations, referral, follow-up, and final evaluation of the client's ability to function with various degrees of autonomy. Taken concurrently with RH493 and RH422.

RH 493 Field Training in Rehabilitation II

var-6sh

Prerequisite: All major courses in program

Provides a second field experience. Taken concurrently with RH488 and RH422.

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Speech Pathology and Audiology (formerly Speech and Hearing)

Department of Special Education and Clinical Services
College of Education

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[SH111](#) [SH122](#) [SH222](#) [SH242](#) [SH251](#) [SH254](#) [SH281](#) [SH311](#) [SH334](#) [SH342](#) [SH406](#) [SH408](#) [SH412](#) [SH420](#) [SH481](#)
[SH482](#)

SH 111 Introduction to Communication Disorders

3c-0l-3sh

Introduction to study of physiological, acoustical, and scientific processes involved in production and reception of speech. The genetic development of speech sounds and factors that hinder or facilitate speech and language acquisition. (Previous title: Fundamentals of Speech and Hearing)

SH 122 Clinical Phonology

3c-0l-3sh

Detailed study of the classification of American-English phonemes using the physical and acoustical perspectives. Development of proficiency in use of International Phonetic Alphabet for allophonic transcriptions of normal and disordered speech. (Previous title: Phonetics)

SH 222 Introduction to Audiology

3c-0l-3sh

The study of auditory function, anatomy of auditory mechanism, psychophysics of sound, types and causes of hearing loss, measurement of hearing, and educational considerations for hearing-handicapped child.

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SH 242 Speech Science I

3c-0l-3sh

Study of the communication process with emphasis on physical characteristics of sound production, transmission and perception of the sound, and the evolution and use of symbols for meaningful communication. The scientific principles of normal oral communication are stressed, and language learning is recognized as a basis for oral communication. (Previous title: Introduction to Speech Science)

SH 251 Anatomy and Physiology of the Speech and Hearing Mechanism

3c-0l-3sh

Consideration of genetic development, structure, and function of the organs of speech and hearing. Anatomical systems involved in respiration, phonation, articulation, and hearing and relationships between systems in production and reception of speech.

SH 254 Classroom Management of Language Disorders

3c-01-3sh

Study of aspects of speech, language, and hearing problems pertaining to classroom situation. Types of speech and hearing disorders, conducting speech and language improvement lessons, classroom aids for teaching the child with language, speech, and hearing impairment, and school and community resources for these children. (Required for majors in Education of the Exceptional and suggested for majors in Elementary Education)

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SH 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

SH 311 Aural Rehabilitation

3c-01-3sh

Prerequisite: SH222, 2.5 QPA

Consideration of the effects of varied degrees of hearing loss sustained by individuals at different stages of development and study of total education and rehabilitative procedures for the hard-of-hearing child or adult.

SH 334 Language Development

3c-01-3sh

Prerequisite: 2.5 QPA

Study of the development of an interpersonal communication system; language as a system of symbols for communication; the structure of the English language, including phonology, syntax, and semantics with emphasis on the generative evolution of sentences. Highlighting the neurological, social, and psychological bases of language development. (Offered as SH234 prior to 1993-94)

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SH 342 Speech Science II

3c-01-3sh

Prerequisite: SH242, 2.5 QPA

Physiologic, acoustic, and perceptual characteristics of speech with special emphasis on speech monitoring and controls. Major lab instrumentation and research techniques in current use are described and demonstrated. Status of present knowledge is summarized and discussed.

SH 406 Articulation and Language Disorders

3c-01-3sh

Prerequisites: SH111, 242, 251, 334, 2.5 QPA

Exploration of the processes related to developmental articulation and language disorders from birth through adolescence. Instruction in the principles underlying modification of these disorders. Preparation of management programs and observation in the Speech and Hearing Clinic required. (Offered as SH306 prior to 1993-94)

SH 408 Stuttering and Voice Disorders

3c-01-3sh

Prerequisites: SH111, 242, 251, 334, 2.5 QPA

Introduction to the developmental, psychogenic, and organic bases for stuttering and voice disorders. Instruction in

principles underlying treatment of these disorders with emphasis on anatomical deviations and laryngeal dysfunction. Preparation of management plans and observation in Speech and Hearing Clinic required. (Offered as SH308 prior to 1993-94)

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SH 412 Organization and Administration of Speech and Hearing Progra

3c-01-3sh

Prerequisite: SH111, 2.5 QPA (meets requirement for Professional Education course)

Establishment and maintenance of speech and hearing programs within various administrative organizations, particularly in the public schools. Techniques of client identification, scheduling, recordkeeping, appropriate referral, material and equipment selection, teacher and parental counseling, and the development of coordinated professional and interdisciplinary procedures. (Offered as SH312 prior to 1993-94)

SH 420 Speech Clinic

var-1-3sh

Prerequisites: ED242, ED342, QPA of 3.0+, all major courses, program director's permission

Experience in working with individuals or groups of persons who exhibit speech or hearing problems. Lesson planning, writing of reports, and case histories of a detailed nature. (Offered as SH320 prior to 1993-94)

SH 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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SH 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Fine Arts

College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FA281](#) [FA481](#) [FA482](#) [FA493](#)

FA 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

FA 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

FA 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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FA 493 Internship

var-3-12sh

Covers the areas of the visual and performing arts.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Art (Studio)

Department of Art
College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[AR100](#) [AR111](#) [AR112](#) [AR113](#) [AR114](#) [AR120](#) [AR211](#) [AR213](#) [AR214](#) [AR215](#) [AR216](#) [AR217](#) [AR218](#) [AR219](#) [AR281](#)
[AR421](#) [AR451](#) [AR452](#) [AR453](#) [AR454](#) [AR455](#) [AR457](#) [AR459](#) [AR460](#) [AR481](#) [AR482](#) [AR493](#)

AR 100 Arts of the Twentieth Century

1c-3l-3sh

Designed to expand student response to visual, aural, and kinetic art forms of this century with special emphasis on recent decades. The course includes lecture, studio, and field experiences.

AR 111 Figure Drawing

0c-6l-3sh

A foundation course in drawing, including a study of the structure of drawing and composition with a variety of media and subject matter.

AR 112 Fundamentals of Drawing

0c-6l-3sh

A course which seeks to integrate basic principles and fundamentals of drawing and design.

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AR 113 Three-Dimension Design

0c-6l-3sh

Basic elements and principles of design are studied. A course in design in three dimensions.

AR 114 Color and Two-Dimensional Design

0c-6l-3sh

Focuses on the consistent properties of color and the manner in which two-dimensional design can be organized. Specific attention is given to the complex interactions of color within two-dimensional design.

AR 120 Principles of Design

0c-4l-2sh

Principles of design and color are studied and applied to a crafted object. Major emphasis on aesthetic quality inherent in designing with materials.

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AR 211 Painting

0c-6l-3sh

An introductory course in painting in which a variety of materials, techniques, and approaches are explored.

AR 213 Woodworking: Function and Form

0c-6l-3sh

Involves the study of woodworking and furniture design as it relates to the individual designer-artist. Students will experience a formal background in both woodworking technique and the application of design.

AR 214 Ceramics

0c-6l-3sh

A general introduction to the techniques and aesthetics of clay. The student will work both at the wheel and with hand building methods.

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AR 215 Sculpture

0c-6l-3sh

Introductory course in sculpture with emphasis on study of form as well as visualizing in the third dimension.

AR 216 Basic Metals

0c-6l-3sh

Introduction to metal work with emphasis upon creation of functional and nonfunctional art objects. Approached from the viewpoint of beginner learning basic processes of metal fabrication.

AR 217 Printmaking

0c-6l-3sh

Introduction to basic techniques of production of fine prints including work in relief, intaglio, lithograph, and serigraph processes.

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AR 218 Graphic Design

0c-6l-3sh

Students explore various techniques and their application to such commercial art projects as package design, trademark, and other design problems. Lettering is stressed, both instant type and hand lettering.

AR 219 Fibers

0c-6l-3sh

Provides students with introductory working knowledge in design and execution of projects in non 4/harness loom weaving and related fabric areas. Other fiber techniques, including handmade paper, available for students to explore as desired.

AR 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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AR 421 Advanced Drawing

0c-6l-3sh

Prerequisites: AR111 and 112

Designed to meet the needs of the student who has some background in the field. Problems of composition, two- and three-dimensional relationships, and surface are on an individual basis. (Offered as AR321 prior to 1994-95.)

AR 451 Advanced Woodworking: Function and Form

0c-6l-3sh

Prerequisite: AR213

Offers advanced training and skills involving the study of contemporary furniture design and woodworking. Emphasis on a technical and aesthetic point of view.

AR 452 Advanced Ceramics

0c-6l-3sh

Prerequisite: AR214

Continued exploration of the field of ceramic production, along with kiln firing and glaze formulation.

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AR 453 Advanced Sculpture

0c-6l-3sh

Prerequisite: AR215

Gives the student an opportunity to pursue independent study in sculpture. Materials and processes will be individually chosen and the work related to broadening concepts.

AR 454 Advanced Painting

0c-6l-3sh

Prerequisite: AR211

Individual experimentation and exploration by the painter and investigation of the various technical approaches.

AR 455 Advanced Graphic Design

0c-6l-3sh

Prerequisite: AR218

Stresses advanced techniques in layout and illustration. The student explores ideas, such as creation of trademarks and how products are designed. Layouts are analyzed as to their quality. Package design is studied.

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AR 457 Advanced Printmaking

0c-6l-3sh

Prerequisite: AR217

Student elects to study one of the printmaking processes in greater depth and works toward development of own techniques, working processes, and ideas.

AR 459 Advanced Fibers

0c-6l-3sh

Prerequisite: AR219

Provides student with a working knowledge in design and execution of projects in weaving and related areas. Other fiber techniques, including handmade paper, will be available for the students to explore as desired.

AR 460 Advanced Metals

0c-6l-3sh

Prerequisite: AR216

Design and processes associated with art of metal are given greater concentration. The developing artist is encouraged to investigate, in depth, one or more of the metal arts as an extension of the basic course.

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AR 481 Special Topics

var-1-3sh

May provide an in-depth study of a narrowly defined area of the discipline. Subject matter may change with repeated offering of the course. May be repeated for credit.

AR 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

AR 493 Internship

var-3-12sh

Designed for art majors who wish to receive practical experience working within professional situations which relate to the student's artistic and occupational goals.

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Art Education

Department of Art
College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[AE281](#) [AE315](#) [AE317](#) [AE318](#) [AE481](#) [AE482](#)

AE 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

AE 315 Survey of Art Education

3c-0l-3sh

A seminar to introduce the art education major to the principles and practices of teaching visual arts K through 12. Field experiences, pre-student teaching activities, introduction to literature, and history and philosophies of art education emphasized. (Prerequisite to student teaching) Fall only.

AE 317 Art Education Methodology at the Elementary Level

1c-3l-3sh

Examines children's artistic development, art programs, planning, motivation, and evaluation. Weekly teaching experience is an integral part of the course. (Prerequisite to student teaching) Fall only.

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AE 318 Art Education Methodology at the Secondary Level

1c-3l-3sh

Relationship of art education to the total secondary curriculum is studied to determine goals of junior-senior high school art. The adolescent creative products are analyzed to help the prospective art teacher to identify with problems of students. (Prerequisite to student teaching) Spring only.

AE 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

AE 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Music

Department of Music
College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MU110](#) [MU111](#) [MU112](#) [MU115](#) [MU116](#) [MU120](#) [MU121](#) [MU122](#) [MU123](#) [MU125](#) [MU126](#) [MU127](#) [MU129](#) [MU130](#)
[MU131](#) [MU133](#) [MU134](#) [MU135](#) [MU136](#) [MU137](#) [MU151](#) [MU152](#) [MU153](#) [MU154](#) [MU155](#) [MU157](#) [MU159](#) [MU161](#)
[MU163](#) [MU211](#) [MU212](#) [MU215](#) [MU216](#) [MU217](#) [MU218](#) [MU224](#) [MU225](#) [MU281](#) [MU304](#) [MU306](#) [MU309](#) [MU311](#)
[MU312](#) [MU313](#) [MU331](#) [MU333](#) [MU335](#) [MU337](#) [MU340](#) [MU351](#) [MU353](#) [MU354](#) [MU405](#) [MU406](#) [MU408](#) [MU411](#)
[MU412](#) [MU413](#) [MU414](#) [MU475](#) [MU481](#) [MU482](#) [MU493](#)

MU 110 Fundamentals of Theory

0c-3l-2sh

Rudiments of musical materials; harmonic, melodic, rhythmic, and basic formal procedures of the common practice period including pitch reading, interval construction, scales, and modes.

MU 111 Theory Skills I

0c-3l-2sh

Develops aural skills through dictation and interpretation of written music by sight-singing. Taken in conjunction with Theory I.

MU 112 Theory Skills II

0c-3l-2sh

Prerequisite: MU111

Continuing development of aural skills and introduction of keyboard skills. Taken in conjunction with Theory II.

MU 115 Theory I

3c-0l-3sh

The study of the harmonic, melodic, and formal devices of the common practice period, from simple diatonic chords through secondary dominants.

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MU 116 Theory II

3c-0l-3sh

Prerequisite: MU115

The study of the harmonic, melodic, and formal devices of the common practice period, from simple diatonic chords through secondary dominants. Theory II introduces basic music forms.

MU 120 Brass Ensemble

0c-2l-0/1sh

MU 121 Chamber Singers

0c-31-0/1sh

MU 122 University Chorale

0c-31-0/1sh

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MU 123 Symphony Band

0c-31-0/1sh

MU 125 Marching Band

0c-61-0/1sh

MU 126 Music Theater

0c-61-0/1sh

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MU 127 Percussion Ensemble

0c-41-0/1sh

MU 129 University Symphony Orchestra

0c-51-0/1sh

MU 130 String Ensemble

0c-21-0/1sh

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MU 131 University Wind Ensemble

0c-31-0/1sh

MU 133 Woodwind Ensemble

0c-21-0/1sh

MU 134 University Chorus

0c-31-0/1sh

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MU 135 Jazz Ensemble

0c-31-0/1sh

MU 136 Advanced Jazz Ensemble

0c-31-0/1sh

MU 137 Piano Accompanying

var-1-1 or 0sh

Piano accompanying may be scheduled by qualified pianists from the Department of Music in partial fulfillment of ensemble requirements. The course may be repeated for credit. Pianists registered for this course will provide accompaniments for Department of Music students in solo vocal or instrumental performances in area and departmental recitals and/or in voice and instrumental lessons. Registration for the course must be approved by a designated Department of Music faculty member from the piano area.

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MU 151 Class Voice I

1c-11-1sh

Conceived for non-Voice majors. Development of correct vocal production techniques through individual and group performance in class. Use of the voice as a tool for theory skills and for eventual use in the music classroom.

MU 152 Class Voice II

1c-11-1sh

Continuation of Class Voice I. Resumes development of correct vocal production techniques through performance.

MU 153 Class Piano I

1c-11-1sh

Designed for students with no significant background in piano who need to develop functional keyboard skills. Emphasis placed on harmonizing melodies and playing simple accompaniments.

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MU 154 Class Piano II

1c-11-1sh

Continuation of Class Piano I.

MU 155 Class Strings I

1c-11-1sh

For Music Education majors who will develop rudimentary playing techniques sufficient to initiate instruction for beginning students. Emphasis placed on correct playing positions and tone production for violin, viola, cello, and double bass.

MU 157 Class Percussion I

1c-11-1sh

A practical introduction to the various instruments of the percussion family. Students will demonstrate correct playing techniques and develop a resource file containing information on percussion instruments and instructional materials as needed by the school music teacher.

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MU 159 Class Brass I

1c-11-1sh

For Music Education majors who will demonstrate rudimentary playing techniques and tone production skills to initiate beginning instruction. Students will develop playing on trumpet or French horn and trombone, euphonium, or tuba.

MU 161 Class Woodwinds I

1c-11-1sh

For Music Education majors who will acquire correct tone production and playing techniques sufficient to initiate beginning instruction. Students will demonstrate skills with flute, clarinet, saxophone, and oboe or bassoon.

MU 163 Class Guitar I

1c-11-1sh

Designed for students with no significant background in guitar who wish to develop functional playing skills. Emphasis placed on using the guitar as an accompanying instrument.

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MU 211 Theory Skills III

0c-3l-2sh

Prerequisites: MU111, 112

Further development of aural and keyboard skills. Taken in conjunction with Theory III.

MU 212 Theory Skills IV

0c-3l-2sh

Prerequisites: MU111, 112, 211

Culmination of development in aural and keyboard skills. Taken in conjunction with Theory IV.

MU 215 Theory III

3c-0l-3sh

Prerequisites: MU115, 116

Extension of the techniques of the eighteenth and nineteenth centuries to include modulation, altered chords, more advanced musical forms, and contrapuntal procedures.

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MU 216 Theory IV

3c-0l-3sh

Prerequisites: MU115, 116, 215

Extension of the techniques of the eighteenth and nineteenth centuries to include modulation, altered chords, more advanced musical forms, and contrapuntal procedures. Theory IV concentrates largely on music and materials of the present century.

MU 217 Keyboard Harmony I

1c-11-1sh

Prerequisite: Nominal facility at keyboard

Designed to develop keyboard skills so the student may realize and produce in sound basic harmonic progressions.

MU 218 Keyboard Harmony II

1c-11-1sh

Prerequisite: MU217

Continuation of Keyboard Harmony I, involving chromatic harmony and more complex progressions.

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MU 224 Jazz Improvisation Techniques I

3c-01-3sh

A study of the basic materials and practices for improvising or extemporaneous playing.

MU 225 Jazz Improvisation Techniques II

3c-01-3sh

A continuation of the basic materials and practices for improvising or extemporaneous playing. Makes use of more complicated and involved harmonic progressions utilizing extended choral harmonies.

MU 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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MU 304 Form and Analysis I

2c-01-2sh

Prerequisite: MU216

Thorough study of smaller forms of music.

MU 306 Counterpoint I

2c-01-2sh

Prerequisite: MU216

After study and analysis of the style of sixteenth-century contrapuntal writing, student will do original writing using techniques and devices of period. As time permits, same approach will be made to explore style of seventeenth- and eighteenth-century composers.

MU 309 Orchestration I

2c-01-2sh

Prerequisite: MU216

All instruments of orchestra are studied from the viewpoint of their contribution to the total sound of ensemble. Ranges and timbres are considered, as well as actual arranging of selected music.

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MU 311 Fundamentals of Conducting

3c-01-2sh

Emphasis placed on fundamental physical skills of conducting process; various beat patterns are mastered and elementary score reading and interpretation are considered.

MU 312 Choral Conducting

3c-01-2sh

Prerequisite: MU311

Provides an opportunity for the student to apply basic conducting techniques to choral music. Each student conducts the class in standard choral works. Includes survey of suitable literature, organizational problems, voice testing, rehearsal techniques, program building, interpretation, and diction.

MU 313 Instrumental Conducting

3c-01-2sh

Prerequisite: MU311

Provides the student with an opportunity to apply basic conducting skills to various instrumental ensembles. Includes survey of suitable literature, organizational problems, audition procedures, rehearsal techniques, program building, and interpretation.

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MU 331 Elementary Methods

3c-01-3sh

Includes analytical study of texts, recordings, equipment, instruments, and other materials suitable to musical development of elementary pupils; proper treatment of child voice; selection, use, and teaching of rote songs; rhythmic activities and development; music reading; part singing; planning and organization; guided observations; and evaluation techniques.

MU 333 Secondary Methods

3c-01-3sh

Includes General Music Class, choral organizations, changing voice, techniques of instruction, including team teaching and programmed learning, high school theory courses, high school music literature courses, scheduling, administrative problems, curriculum development, evaluation of materials and equipment, evaluative techniques, and guided observation. Extra laboratory sessions are required.

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MU 335 Music for the Exceptional Student

2c-21-2sh

Develops music education skills, techniques, and materials for the emotionally, mentally, physically, or neurologically handicapped student and the gifted. Designed for students in music education, special education, and elementary education.

MU 337 General Music in Middle Schools

3c-01-3sh

Prerequisite: MU331

This course will provide general practices and pedagogy related to recent standards for a comprehensive, sequential middle school general music curriculum. Specific focus on curriculum development, lesson planning, instructional strategies, adolescent behavioral characteristics, as well as diverse materials and resources.

MU 340 Woodwind Instrument Repair

0c-21-2sh

Prerequisites: MU133, Teacher Certification

This course is designed for students preparing for teaching careers in instrumental music. Instruction will be conducted in a laboratory setting and will include development of the diagnostic and repair skills necessary to deal with the problems most frequently encountered in a public school classroom on the clarinet, flute, and saxophone.

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MU 351 Italian Diction and Literature

2c-01-2sh

For first-semester voice majors, this class meets for two hours per week. Emphasis is on pronunciation for the stage and readings of Italian song texts. Italian madrigals, solo song literature, and operatic repertoire are also studied.

MU 353 French Diction and Literature

2c-01-2sh

For third- or fourth-semester voice majors, this class meets for two hours per week. Emphasis is on pronunciation for the stage and the International Phonetic Alphabet. French solo song literature and operatic repertoire are also studied.

MU 354 German Diction and Literature

2c-01-2sh

For second-semester voice majors, this class meets for two hours per week. Emphasis is on pronunciation for the stage. German solo song literature as well as Bach chorales are studied.

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MU 405 Piano Pedagogy

3c-01-3sh

Prerequisites: Junior standing in Piano and a Piano major or minor

Survey of current and significant past developments in teaching of piano, both privately and in small and large classes. The various piano methods are analyzed, compared, criticized, and adapted to each individual's use.

MU 406 Voice Pedagogy

3c-01-3sh

Prerequisites: A voice major or minor and permission of the instructor

Survey of current and past development in teaching of voice, both privately and in small and large classes. The various vocal methods are analyzed, compared, criticized, and adapted to each individual's use.

MU 408 Marching Band Techniques

2c-01-2sh

Considers building a band show; alignment of ranks and files; development of a standard pace of 5 to 5 and 8 to 5; selection of music; instrumentation; techniques of developing morale; and fundamentals of uniform design.

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MU 411 Composition I

2c-01-2sh

Prerequisite: MU216

Instruction is individualized. Compositional devices studied through analysis of works by major composers. Students will write several original compositions utilizing smaller forms.

MU 412 Composition II

2c-01-2sh

Prerequisite: MU411

Continuation of Composition I.

MU 413 Composition III

2c-01-2sh

Prerequisite: MU412

Students will write several original compositions utilizing larger forms.

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MU 414 Composition IV

2c-0l-2sh

Prerequisite: MU413

Continuation of Composition III. Outstanding works will be programmed by university performing ensembles.

MU 475 Music Lab

var-0sh

All music majors must attend eight recitals per semester and all departmental recitals, as well as all recitals for their respective performance areas.

MU 481 Special Topics

3c-0l-3sh

Prerequisite: As appropriate to course content

May provide an in-depth study of a narrowly defined area of the discipline. Subject matter will change with repeated offering of the course. May be repeated for credit.

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MU 482 Independent Study

var-1-6sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

MU 493 Internship in Music

var-1-6sh

Designed for music majors who wish to receive practical experience working with people in music or in areas related to music.

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Applied Music

Department of Music College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

Music majors and others who may qualify take private instruction in their respective major areas of performance in instrument or voice for up to eight semesters. Half-hour lessons are given each week (2 sh) for students enrolled in the B.S. and B.A. degree programs. A one-hour lesson (4 sh) is scheduled by students enrolled in the B.F.A. degree program only.

AM 101, 151, 201, 251, 301, 351, 401, 451	Piano I-VIII
AM 102, 152, 202, 252, 302, 352, 402, 452	Organ I-VIII
AM 103, 153, 203, 253, 303, 353, 403, 453	Harpsichord I-VIII
AM 104, 154, 204, 254, 304, 354, 404, 454	Harp I-VIII
AM 105, 155, 205, 255, 305, 355, 405, 455	Voice I-VIII
AM 106, 156, 206, 256, 306, 356, 406, 456	Violin I-VIII
AM 107, 157, 207, 257, 307, 357, 407, 457	Viola I-VIII
AM 108, 158, 208, 258, 308, 358, 408, 458	Cello I-VIII
AM 109, 159, 209, 259, 309, 359, 409, 459	String Bass I-VIII
AM 110, 160, 210, 260, 310, 360, 410, 460	Flute I-VIII
AM 111, 161, 211, 261, 311, 361, 411, 461	Clarinet I-VIII
AM 112, 162, 212, 262, 312, 362, 412, 462	Oboe I-VIII
AM 113, 163, 213, 263, 313, 363, 413, 463	Bassoon I-VIII
AM 114, 164, 214, 264, 314, 364, 414, 464	Saxophone I-VIII
AM 115, 165, 215, 265, 315, 365, 415, 465	Trumpet I-VIII
AM 116, 166, 216, 266, 316, 366, 416, 466	French Horn I-VIII
AM 117, 167, 217, 267, 317, 367, 417, 467	Trombone I-VIII
AM 118, 168, 218, 268, 318, 368, 418, 468	Baritone Horn I-VIII
AM 119, 169, 219, 269, 319, 369, 419, 469	Tuba I-VIII
AM 120, 170, 220, 270, 320, 370, 420, 470	Percussion I-VIII
AM 121, 171, 221, 271, 321, 371, 421, 471	Guitar I-VIII

AM 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in

conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Hotel, Restaurant, and Institutional Management

Department of Hotel, Restaurant, and Institutional Management
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[HR101](#) [HR115](#) [HR245](#) [HR259](#) [HR281](#) [HR306](#) [HR313](#) [HR350](#) [HR356](#) [HR358](#) [HR360](#) [HR365](#) [HR401](#) [HR406](#) [HR408](#)
[HR411](#) [HR413](#) [HR420](#) [HR433](#) [HR481](#) [HR482](#) [HR493](#)

HR 101 Introduction to Hospitality Management

3c-0l-3sh

Focuses on the development of the hospitality industry and career opportunities within hotel and restaurant chains and independents. Guest speakers address various hospitality management topics.

HR 115 Introduction to Tourism

3c-0l-3sh

Prerequisites: HR101; majors only

Analyzes the economic and social impact of tourism, its promotion and implementation. Acquaints student with services needed by tourists, the role of the travel agent, and tourism organizations.

HR 245 Diversity and Multicultural Management in the Hospitality Industry

3c-0l-3sh

Prerequisite: Sophomore standing

Course will explore what happens when diverse people work together in the hospitality industry. It will also examine the effects of international migration and the changing roles of women and other minorities which lead to multicultural urban centers within the United States and other hospitality venues. Furthermore, it will also focus on the cultural factors affecting productivity in the culturally diverse hospitality environment.

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HR 259 Hospitality Purchasing

3c-0l-3sh

Prerequisite: FN150 or equivalent

Includes sources, standards, grades, methods of purchase, and storage of various foods, beverages, and fixtures. Emphasis on the development of purchasing policies and specifications.

HR 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

HR 306 Food and Beverage Management

3c-01-3sh

Prerequisite: FN150 or equivalent

Examines principles, processes, beverage laws, and food and beverage service, sales, promotions, and menu design as functions of the food and beverage department.

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HR 313 Food Systems I

2c-var-4sh

Prerequisites: FN150, HR259, permission; professional chef's uniform required

A basic course in quantity food production with experience in planning, purchasing, preparing, and serving nutritionally adequate meals. Requirements of the National School Lunch program emphasized in satellite and on-premises food service. Requires some preparation and service outside regularly scheduled class time.

HR 350 Introduction to the Casino Industry

2c-var-4sh

Prerequisites: Sophomore standing or permission of the professor

Introduces the student to the multi-billion-dollar casino industry. It examines the gaming industry from a historical perspective and includes legal, social, and economic issues. It also reviews the various games played in casinos and the current trends, as well as the most popular casino destinations in the world. Special attention will be devoted to the growth of casinos on cruise ships, on Native American reservations, and on riverboats in the USA. This course includes a field trip to Atlantic City or another casino setting, which occurs on a weekend. This field trip serves as a catalyst to appreciate all of the theoretical concepts discussed in the lectures. (pending Council of Trustees approval)

HR 356 Human Resources in the Hospitality Industry

3c-01-3sh

Prerequisites: PC101, HR313

Organization and administration of hospitality business, including human resource theories and policies, work simplification, training, communication, and safety.

HR 358 Food Service Equipment and Facilities Design

3c-01-3sh

Prerequisite: HR313

Examines types and uses of food service production and service equipment with emphasis on incorporation into an effective facilities design. Field trips permit investigation of a variety of unit designs.

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HR 360 Hotel Systems Management

3c-01-3sh

Prerequisites: HR356, IM241, AG201

Development and application of management skills as applied to the rooms division of a hotel. Emphasis on basic front desk procedures, rooms division departmental functions and relationships, and hotel facilities development. Students use MICROS 451 system in class.

HR 365 Hotel Design and Maintenance

3c-01-3sh

Prerequisite: HR356

Analyzes functions of housekeeping and maintenance departments within a hotel. Identification of various hotel design

concepts and design characteristics are explored, as well as guest room layout and furnishing.

HR 401 Cost Management

3c-01-3sh

Prerequisites: HR356, 313

Food, beverage, and labor controls for hospitality or health care operations, including relationships between budgetary information and managerial decision making to meet financial needs.

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HR 406 Catering and Banquet Management

var-3sh

Prerequisites: HR313, majors only; chef's uniform and wait-staff attire required

Profitable organization, preparation, and service of catered events in both on- and off-premises locations are the main emphases of the course. Requires meeting times other than listed in order to meet course objectives.

HR 408 Institutions Management

3c-01-3sh

Prerequisites: HR313, 356, AG201, senior standing

A compendium of the concepts of managing human resources, capital, materials, equipment, and markets as related to various hospitality property systems. Focus on concept development and managerial decision making.

HR 411 Seminar in Hospitality Management

3c-01-3sh

Prerequisites: HR360, 365

Analysis of the current trends and practices within hospitality industry as related by industry professionals. Course includes researching topics and writing at least three research papers. Carries writing-intensive credit.

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HR 413 Food Systems II

1c-6l-4sh

Prerequisites: HR313, 356, 401, and permission; professional chef uniform required

Food systems course with emphasis on restaurant and dining room operation. Experiences to include selection of classic cuisines, meal promotion methods, budget development, personnel training, production, and service.

HR 420 Hotel Sales and Services

3c-01-3sh

Prerequisites: BL235 and HR306

Examines the types of hotels, facilities, and organizations that hold conventions or meetings from the sales perspective. Examination of procedures necessary to service the group once in-house.

HR 433 Educational Study Tour

var-2-6sh

Comprehensive program of directed activities permits firsthand experiences in the historical and cultural aspects of the hospitality industry worldwide. Visits to renowned operations will be included in the tour.

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HR 481 Special Topics

var-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

HR 482 Independent Study in Hospitality Management

var-1-6sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. Must apply a semester in advance and have sixty earned credits.

HR 493 Internship in Hospitality Management

var-6-12sh

Prerequisites: 57 earned credits, 2.0 GPA, and completion of an approved 440-hour Work Experience I

An opportunity for students to work in a supervised experience directly related to the HRIM major. Must meet university and departmental internship requirements. Minimum of 440 hours required during the internship.

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Note: White uniforms including white shoes are required for all lab courses where food is prepared. Students must meet the professional dress requirements of the department.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Fashion Merchandising

Department of Human Development and Environmental Studies
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[FM110](#) [FM112](#) [FM212](#) [FM214](#) [FM252](#) [FM281](#) [FM303](#) [FM314](#) [FM350](#) [FM357](#) [FM385](#) [FM433](#) [FM434](#) [FM450](#)
[FM453](#) [FM454](#) [FM455](#) [FM456](#) [FM457](#) [FM480](#) [FM481](#) [FM482](#)

FM 110 Introduction to Fashion

3c-0l-3sh

Survey of aesthetic, cultural, sociopsychological, and economic factors related to the meaning and use of clothing for the individual and society. (Offered as CS216 prior to 1996-97)

FM 112 Fundamentals of Clothing Construction

1c-3l-3sh

Principles and techniques involved in fundamental clothing construction and fitting are analyzed. Directed laboratory experiences provide an opportunity to solve individual problems in garment structure through the application of principles. (Offered as CS112 prior to 1996-97)

FM 212 Advanced Clothing Construction

1c-3l-3sh

Prerequisite: FM112 or placement (by exam)

Principles of advanced fitting and clothing construction are applied and analyzed. Offered even years, fall semester. (Offered as CS212 prior to 1996-97)

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FM 214 Environmental Textiles

2c-2l-3sh

Investigation of components and characteristics of textiles for man's near environment with emphasis on soft goods for public and private interiors, including production, marketing, and legislation affecting acquisition, use, and care. A student may not count both FM214 and 314 toward graduation requirements. (Offered as CS214 prior to 1996-97)

FM 252 Aesthetics of Fashion

1c-0l-3sh

Prerequisite: Sophomore standing

The study of contemporary apparel design and the relationship of design elements and principles to personal characteristics and social/professional orientation. (Offered as CS252 prior to 1996-97)

FM 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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FM 303 Visual Merchandising

1c-3l-3sh

Prerequisite: AR120 or equivalent

Designing and arranging of display and selling areas in relationship to merchandising trends and consumer demands. Emphasis on promotion techniques and merchandise sales through effective use of space, design, and color. (Offered as CS303 prior to 1996-97)

FM 314 Textiles

2c-2l-3sh

Prerequisite: CH102

Analyses of textile components of fiber, yarn, fabrication, finishes, and color with emphasis upon consumer acquisition, use, and satisfaction. (Offered as CS314 prior to 1996-97)

FM 350 Apparel Industry I

3c-0l-3sh

Prerequisites: FM110, completion of 57 semester hours

Introduces the student to the design, production, and distribution of apparel, including primary textile markets; women's, men's, and children's wear; accessories; fashion centers; retailers of fashion; apparel wholesale selling process; fashion store image; and future trends. (Offered as CS350 prior to 1996-97)

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FM 357 Global Issues in Textiles and Apparel

3c-0l-3sh

Prerequisite: EC121

The study of the global textiles and apparel industry with emphasis on the U.S. textile complex and the U.S. market within an international context.

FM 385 Ready-to-Wear Analysis

1c-3l-3sh

Prerequisites: FM112, 350

An examination and evaluation of the quality of ready-to-wear apparel through construction, style, fit, marketability, and price. (Offered as CS385 prior to 1996-97)

FM 433 Study Tour

var-1-6sh

Prerequisite: Upper-level standing

Opportunity is provided to visit business establishments and cultural centers concerned with household equipment, furnishings, textiles, clothing, and housing in America as well as abroad. Museums, factories, designers' showrooms, distribution centers, stores, cultural events, and seminars are included. Course may be repeated for a total of 6 semester hours. (This course is cross-listed as CS433.)

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FM 434 Quality Control in Textiles

2c-2l-3sh

Prerequisite: FM314

Physical properties explored through microscopic examination and use of textile testing equipment for fabric analysis. (Offered as CS434 prior to 1996-97)

FM 450 Apparel Industry II

3c-0l-3sh

Prerequisites: FM350 and Liberal Studies math requirements

Introduces the student to the merchandising and promotion of apparel, including organization, buying responsibilities, techniques, and resources: various retail institutions, resident buying offices, apparel dollar planning and control, apparel merchandise assortment planning, apparel buying practices, application of apparel planning and buying, and apparel advertising and promotion. (Offered as CS450 prior to 1996-97)

FM 453 Flat Pattern Design

1c-3l-3sh

Prerequisite: FM112 or 212

Garment design achieved by use of flat pattern techniques. An understanding is developed of the interrelationship of garment design, figure analysis, fabric, fit, and construction processes. Offered even years, spring semester. (Offered as CS453 prior to 1996-97)

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FM 454 Tailoring

1c-3l-3sh

Prerequisite: FM112 or 212

Various tailoring methods are studied and applied in the selection, fitting, and construction of a tailored garment. Consumer problems in the selection of ready-to-wear apparel are investigated. Offered odd years, fall semester. (Offered as CS454 prior to 1996-97)

FM 455 Draping

1c-3l-3sh

Prerequisite: FM112 or 212

Apparel design principles are applied by draping fabric to conform to the human figure. Students will pad a form to individual measurements and create garments that are both individual and original. Offered odd years, spring semester. (Offered as CS455 prior to 1996-97)

FM 456 Historic Costume

3c-0l-3sh

Chronological study of historic costume from ancient times to the present day with emphasis on the effect of aesthetic, economic, geographic, political, religious, and social factors upon the design of clothing worn. (Offered as CS456 prior to 1996-97)

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FM 457 Historic Textiles

3c-0l-3sh

Prerequisite: FM314 or with permission

A study of the development of textiles in prehistoric, ancient, medieval, and modern history with special emphasis on Western European and American textiles.

FM 480 Seminar in Fashion Merchandising

3c-01-3sh

Prerequisite: Senior standing

Knowledge gained in major and additional requirement courses is applied to individual career goals. Students have the opportunity to pursue related areas not directly covered in previous coursework, with emphasis upon independent research, analytical thinking, and communication skills.

FM 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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FM 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office

Particular consumer considerations are independently investigated in the area of housing, home equipment, interior design, clothing, and textiles, or in the management of resources. Course may be repeated for a total of 3 semester hours. Students meet with a faculty member at least 5 hours per semester hour.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Social Work

Department of Sociology
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[SW238](#)

SW 238 Introduction to Social Work

3c-0l-3sh

Prerequisite: SO151 or AN110

Introduction to the dynamics of helping relationships.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Nursing

Department of Nursing
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[NU280](#) [NU281](#) [NU285](#) [NU302](#) [NU303](#) [NU304](#) [NU305](#) [NU322](#) [NU323](#) [NU402](#) [NU403](#) [NU404](#) [NU405](#) [NU407](#)
[NU422](#) [NU423](#) [NU430](#) [NU480](#) [NU481](#) [NU482](#)

NU 280 Introduction to Nursing

3c-0l-3sh

Prerequisite: Nursing majors only

Introduces the major concepts of concern to nursing: persons in their environments, health, and the profession of nursing. Topics include the nurse's role as provider of care and member of a profession; the nursing process as the mode of practice; the value of research as a basis for nursing practice; biophysical and psychosocial components of wellness.

NU 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

NU 285 Introduction to Clinical

0c-9l-3sh

Prerequisite: Nursing majors only

A clinical and college laboratory course which provides the opportunity to practice the use of the nursing process. Emphasis is placed on assessment and basic intervention skills.

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NU 302 Core I

2c-0l-2sh

Prerequisite: NU280

Emphasizes the involvement of nurses and nursing in selected aspects of wellness promotion and maintenance. The theory base for the use of the nursing process to support individuals and families through maturational change and the childbearing cycle is presented.

NU 303 Clinical Laboratory I

0c-14l-5sh

Prerequisites: NU280, NU285

A clinical laboratory course which enables the student to care for individuals and families across the life span. Guided

experiences are provided in hospital and community-based facilities. The nursing process is utilized to promote and maintain wellness in individuals within families.

NU 304 Core II

2c-01-2sh

Prerequisite: NU302

Emphasizes the involvement of nurses and nursing in selected aspects of wellness, promotion, maintenance, and restoration. The theory base for the use of the nursing process is expanded to include family, community health, and transcultural nursing concepts.

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NU 305 Clinical Laboratory II

0c-141-5sh

Prerequisite: NU303

A clinical laboratory course which enables the student to provide care to individuals and families with acute and chronic health problems across the life span. Guided experiences are provided in hospital and community-based facilities and individuals' homes. The nursing process is utilized to promote, maintain, and restore optimal wellness in individuals within families.

NU 322 Maintenance and Restoration of Wellness I

3c-01-3sh

Prerequisites: NU280, NU285

Introduces pathophysiologic change in individuals across the life span and associated nursing management. Topics include caring for the individual who requires surgery or whose alteration in health is related to problems in oxygenation, nutrition, and fluid and electrolyte balance.

NU 323 Maintenance and Restoration of Wellness II

3c-01-3sh

Prerequisite: NU322

Physiologic and psychologic pathology in individuals across the life span and associated nursing management. Topics include caring for the individual whose alteration in health is related to problems with reproductive, cognitive-perceptual, motor, metabolic, and elimination function.

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NU 402 Core III

2c-01-2sh

Prerequisite: NU304

Emphasizes the nurse's roles as accountable provider and coordinator of care and member of a profession. The specific issues that are addressed are quality assurance in provision of patient care; rights and responsibilities of the individual, the nurse as an employee, and the employer; current environmental health concepts.

NU 403 Clinical Laboratory III

0c-141-5sh

Prerequisite: NU305

A clinical laboratory course which affords the opportunity to apply the nursing process as provider and coordinator of care with individuals and families experiencing complex health care needs in a variety of health care facilities.

NU 404 Core IV

2c-01-2sh

Prerequisite: NU402

Emphasizes the nurse's roles as provider and coordinator of care in health care facilities and in emergency and disaster situations. Concepts and principles related to the management of the health care team, community health, and rehabilitation are addressed.

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NU 405 Clinical Laboratory IV

0c-141-5sh

Prerequisite: NU403

A clinical laboratory course which affords the opportunity for the application of critical thinking, health teaching, and management skills. Emphasizes development of the caregiver role in selected areas of clinical practice; development of the care provider and coordinator roles in inpatient and community settings with individuals and families experiencing complex health care needs; integration of the roles of provider and coordinator of care and member of a profession.

NU 407 Skills for Professional Success

1c-01-1sh

Prerequisite: must be enrolled in senior level nursing courses

This one-credit elective for senior nursing majors is designed to help students foster clinical judgment skills by focusing on critical thinking and test-taking. Emphasis is placed on preparing students with the skills that are essential for success on the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

NU 422 Maintenance and Restoration of Wellness III

3c-01-3sh

Prerequisite: NU323

Emphasizes pathophysiology and psychopathology for understanding the complex process of the individual's adaptation to crisis. The theory base for the application of the nursing process in the care of individuals requiring hospitalization, life-sustaining treatment, intensive monitoring, and crisis intervention is discussed.

NU 423 Maintenance and Restoration of Wellness IV

3c-01-3sh

Prerequisite: NU422

Emphasizes strategies used in assisting individuals and their families in the promotion, maintenance, and restoration of optimal wellness. The theory base for the application of the nursing process when illness is being managed in acute, long-term care, and community settings is discussed.

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NU 430 Nursing Research

3c-01-3sh

Prerequisite: MA217

Focus on evaluating research through a study of research design, methodologies, sampling, data analysis, and significance of findings. Consideration is given to issues in conducting research and the impact on problems investigated, the nurse researcher, and the consumer of research.

NU 480 Seminar in Nursing

1c-01-1sh

Prerequisites: NU280, NU285

A seminar which provides a forum for the exploration and discussion of issues relevant to the professional nurse. Emphasis is placed on the development of professional values, critical thinking, decision-making, and communication

skills. A selection of topics on current issues and trends will be offered each semester; each will focus on a particular theme related to nursing practice. One credit hour of seminar is required in each semester in the upper-division nursing courses.

NU 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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NU 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through adviser, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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Respiratory Care

Allied Health Professions Programs College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[RT326](#) [RT327](#) [RT328](#) [RT329](#) [RT330](#) [RT331](#) [RT333](#) [RT334](#) [RT335](#) [RT336](#) [RT337](#) [RT426](#) [RT427](#) [RT428](#) [RT429](#)
[RT430](#) [RT431](#) [RT433](#) [RT434](#) [RT436](#) [RT437](#) [RT438](#) [RT481](#)

RT 326 Respiratory Care Clinical Practice I

var-3sh
First exposure to patient care. Introduction and practice of basic respiratory care treatment modalities receive emphasis.

RT 327 Pharmacology

3c-0l-3sh
Introduction to pharmacology and therapeutics. Emphasis placed on the drugs used in respiratory care. Drug classification, action, usage, dosage, and availability will be discussed.

RT 328 Introduction to Respiratory Care

4c-0l-4sh
Topics include medical terminology and an overview of cellular structure and function. Emphasis is placed on neurophysiology, respiratory anatomy, and physiology.

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RT 329 Respiratory Care Instrumentation

4c-0l-4sh
Introduction to basic respiratory care equipment and related procedures. Special emphasis will be placed upon the rationale and techniques of oxygen administration.

RT 330 Cardiopulmonary Resuscitation

2c-0l-2sh
Comprehensive analysis of the principles and practices of numerous methods of resuscitation.

RT 331 Introduction to Ventilator Management

1c-0l-1sh
This course is designed to establish competence in changing ventilator tubing circuitry in the laboratory situation. Introductory principles, techniques, and theory of ventilator application will also be explored.

RT 333 Respiratory Care Clinical Practice II

var-4sh

Treatment procedures introduced in Clinical I are continued with greater emphasis on independence. Specialty rotations are added to broaden exposure to respiratory care and critical care.

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RT 334 Respiratory Care Instrumentation and Application

4c-01-4sh

Provides students with a comprehensive knowledge of mechanical ventilation. The care of critically ill and physiologic consequences of mechanical ventilation will be discussed.

RT 335 Nursing Arts

3c-01-3sh

An overview of the history of respiratory care and nursing. Topics include medical records, infection control, sterilization, and psychosocial aspects of illness.

RT 336 Cardiopulmonary Evaluation and Clinical Correlation

4c-01-4sh

Disease states of the pulmonary and related systems are investigated in progression from etiology through treatment and prognosis.

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RT 337 Introduction to Pulmonary Function Studies

1c-01-1sh

The student is introduced to the basic principles of lung volumes, capacities, and their measurement. Blood gas sampling and electrodes are also explored.

RT 426 Respiratory Care Clinical Practice III

var-5sh

Respiratory care treatment procedures are continued with emphasis on improving proficiency and refining skills. Students will make rounds with physicians.

RT 427 Applied Pulmonary Physiology

4c-01-4sh

Various aspects of pulmonary physiology will be discussed and applied to acid-base and blood gas analysis and interpretation.

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RT 428 Essentials of Electrocardiography

2c-01-2sh

Designed to acquaint the student with basic principles in cardiac electro-diagnostics. Topics include the technique of ECG testing and fundamentals of ECG arrhythmia recognition.

RT 429 Design and Function of a Respiratory Care Program

2c-01-2sh

Basic management principles as they apply to the hospital setting; in particular, respiratory care departments and schools will be discussed.

RT 430 Pulmonary Function Studies

2c-01-2sh

Prerequisite: RT337

Principles, techniques, and equipment employed in pulmonary diagnostics are explored. Diagnostic studies include basic spirometry, flow-volume loops, diffusion studies, exercise testing, bronchoprovocation studies, and small airways diagnostics.

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RT 431 Pediatric Respiratory Care

1c-01-1sh

Prerequisites: RT334 and RT336

The application of respiratory care to children ages six months to fifteen years is explored. Cardiopulmonary pathophysiology and treatment for the following disorders are discussed: Croup, Epiglottitis, Asthma, Cystic Fibrosis, Congenital Heart Defects, Abdominal and Chest Wall Defects.

RT 433 Respiratory Care Clinical Practice IV

var-5sh

Rotations on treatment and intensive respiratory care are continued. Advanced rotations are included.

RT 434 Neonatal Respiratory Care

3c-01-3sh

Basic terminology, anatomy, and pathophysiology of obstetric, fetal, neonatal, and pediatric patients will be presented.

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RT 436 Respiratory Care Teaching

2c-01-2sh

An introduction to respiratory education.

RT 437 Methods in Critical Care

2c-01-2sh

Critical Care diagnostic and therapeutic modalities pertinent to respiratory care will be discussed. Topics include invasive and noninvasive cardiac monitoring, pulmonary monitoring, neurological assessment, ventilator commitment, and discontinuance.

RT 438 Cardiopulmonary Rehabilitation

1c-01-1sh

Techniques and principles associated with cardiopulmonary rehabilitation programs are surveyed. Topics also include the management of chronic pulmonary disease in the home and the application of respiratory equipment and mechanical ventilators in this setting.

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RT 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Medical Technology

Allied Health Professions Programs College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[MT494](#) [MT495](#) [MT496](#) [MT497](#) [MT498](#) [MT499](#)

MT 494 Clinical Microbiology

var-6-10sh

Identification and clinical pathology of bacteria, fungi, viruses, and parasites. Techniques to isolate, stain, culture, and determine antimicrobial susceptibility. Instrumentation; quality control.

MT 495 Clinical Chemistry

var-7-10sh

Enzymology, endocrinology, biochemistry of lipids, carbohydrates, and proteins; metabolism of nitrogenous end products; physiology and metabolism of fluids and electrolytes; and toxicology as related to the body and diseases. The technical procedures include colorimetry, spectrophotometry, electrophoresis, chromatography, automation, and quality control.

MT 496 Clinical Hematology/Coagulation

var-4-7sh

The composition and function of blood; diseases related to blood disorders; the role of platelets and coagulation. Manual and automated techniques of diagnostic tests for abnormalities.

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MT 497 Clinical Immunohematology

var-3-6sh

Blood antigens, antibodies, crossmatching, hemolytic diseases, and related diagnostic tests. An in-depth study of blood donor service and its many facets such as transfusions, medico-legal aspects, etc.

MT 498 Clinical Immunology/Serology

var-2-4sh

Immune response, immunoglobulins, autoimmunity, and complement and related tests and diseases. Survey and demonstration of serological diagnostic tests.

MT 499 Clinical Seminar

var-0-6sh

Other courses which are not included in the above (such as orientation, laboratory management, education, clinical microscopy) and/or are unique to the individual hospital program.

This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Nuclear Medicine Technology

Allied Health Professions College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[NT427](#) [NT428](#) [NT429](#) [NT430](#) [NT431](#) [NT432](#) [NT433](#) [NT434](#)

NT 427 Nuclear Scintigraphy

3c-0l-3sh

Theoretical aspects of nuclear medicine imaging procedures, including applicable pathophysiology, technical aspects for data acquisition, and computer analysis of data. Systemic radionuclide therapy procedures are also discussed.

NT 428 Radiation Physics

3c-0l-3sh

Applicable aspects of nuclear and atomic physics are covered both in theory and mathematical formulae. Theoretical topics include atomic and nuclear structure, radioactive decay, interactions with matter, and radionuclide production methods. Mathematical concepts discussed are the decay equation, equilibrium, and radiation dosimetry.

NT 429 Nuclear Medicine Instrumentation

2c-1l-3sh

This course covers the basic principles of both in vitro and in vivo instrumentation. The design, operation, and quality control of gas detectors and scintillation detectors are covered. Survey equipment, spectrometers, and stationary imaging devices are presented with their application to nuclear medicine. Hands-on laboratory experience with single channel analyzers and Anger cameras is included.

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NT 430 Radiation Biology and Radiation Protection

2c-0l-2sh

Topics include ionization and energy transfer; molecules, cellular, tissue, and organ response to radiation; acute and chronic effects of radiation; radiation protection; licensing requirements; recordkeeping; and management of clinical radiation spills.

NT 431 In Vivo/In Vitro Non-Imaging

1c-0l-1sh

In vivo clinical nuclear medicine procedures not resulting in images as well as principles of in vitro radioassay are presented. Included are venipuncture, blood volumes, red cell studies, Schillings test, principles of immunology, various types of radioassay, and sensitivity and specificity of procedure.

NT 432 Radiopharmaceuticals

3c-0l-3sh

Topics include tracer theory, pharmacological actions, localization methods, radiopharmaceutical properties, radionuclide generators, radiopharmaceutical preparations and quality control, and transient vs. secular equilibrium. Routinely used radiopharmaceuticals are discussed.

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NT 433 Introduction to Tomographic Imaging

1c-01-1sh

An introduction to the basic principles of cross-sectional anatomy and tomographic imaging is presented. Topics include body planes and cross-sectional anatomy of the heart, brain, liver, and lumbar spine, as applicable to nuclear medicine, and the theory and application of both SPECT and PET imaging systems.

NT 434 Clinical Nuclear Medicine

0c-401-16sh

Prerequisite: Completion of 77 credits at IUP and Phase I and NMI

Students complete 1,320 hours of supervised clinical training at an affiliate hospital. Students receive instruction and participate in the performance of various clinical nuclear medicine procedures, patient care, administrative duties, radiopharmaceutical preparation and quality control, equipment quality control, quality assurance, and radiation safety. Students develop both their technical skills and interpersonal communication skills for incorporation into the medical community and to provide quality patient care.

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Gerontology

Department of Allied Health Professions Program
College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[GN281](#) [GN481](#) [GN482](#) [GN493](#)

GN 281 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

GN 481 Special Topics

var-1-3sh

Prerequisite: As appropriate to course content.

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

GN 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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GN 493 Internship

3sh

Prerequisites: Senior standing, all required courses

Supervised experience in public or private agency that serves aging clients.

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Pan-African Studies

College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

AF131 Introduction to Pan-African Studies

3c-0l-3sh

A multidisciplinary introduction to Africa and the African diaspora. The course explores the effects of Africa's history, in particular colonialism and independence, on present-day Africa; it examines the relationship between Africa and the African diaspora with special attention to African arts, social systems, and political and economic development; it also looks at Africa's contribution to contemporary culture in the Americas.

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Regional Planning

Department of Geography and Regional Planning
College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[RP213](#) [RP281](#) [RP313](#) [RP314](#) [RP316](#) [RP332](#) [RP333](#) [RP350](#) [RP352](#) [RP354](#) [RP412](#) [RP415](#) [RP417](#) [RP458](#) [RP464](#) [RP468](#)
[RP481](#) [RP482](#) [RP493](#)

RP 213 Cartography I

3c-0l-3sh

Introduces students to principles of thematic map construction. Emphasis is on the techniques of choropleth mapping and the production of scientific graphs and charts. (Also offered as GE213; may not be taken for duplicate credit)

RP 281 Special Topics

3c-0l-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students. (May also be offered as GE281; may not be taken as duplicate credit under same title)

RP 313 Cartography II

3c-0l-3sh

Prerequisite: RP 213

Gives an understanding of the compilation and use of maps and quantitative data. Develops skills essential to the construction of various types of maps. (Also offered as GE313; may not be taken for duplicate credit)

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RP 314 Map and Photograph Interpretation

3c-0l-3sh

Maps and air photographs, along with remote sensing materials, permit inventory and analysis of geologic, land use, urban development, and other landscape phenomena. The understanding of these materials and associated tools for their use is presented. (Also offered as GE314; may not be taken for duplicate credit)

RP 316 Introduction to Geographic Information Systems

3c-0l-3sh

Prerequisite: RP 213, or equivalent, or permission of instructor

Automated methods for creating, maintaining, and analyzing spatial data are presented. Topics include 1) specialized GIS hardware and software, 2) vector vs. raster vs. object-oriented spatial data structures, 3) creation and manipulation of geographic data files, 4) data base design and management concepts, 5) spatial analysis, and 6) cartographic design. (Also offered as GE316; may not be taken for duplicate credit)

RP 332 Urban Geography

3c-01-3sh

Basic concepts of urban geography including site, situation, function, urban land use, urban structure, and urban hierarchy are introduced. Relationships between urban geography and urban planning are explored. (Also offered as GE332; may not be taken for duplicate credit)

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RP 333 Trade and Transportation

3c-01-3sh

Deals with the spatial aspects of transportation systems and their use. Circulation, accessibility, time and distance concepts, and trade patterns are discussed. (Also offered as GE333; may not be taken for duplicate credit)

RP 350 Introduction to Planning

3c-01-3sh

Introduction to the profession and activity of contemporary American urban and regional planning. Course emphasis is placed on land use control, design, growth management, and development regulation. The legal and institutional bases of planning practice are covered as well. (Offered as GE360, Introduction to Planning prior to 1996-97)

RP 352 Planning Methods

3c-01-3sh

Prerequisite: RP 350

Research, analytical design, and plan-making techniques in urban and regional planning. Examines basic items necessary to prepare urban and regional comprehensive plans. (Also offered as GE352; may not be taken for duplicate credit.) (Offered as GE361, Planning: Basic Studies and Analysis prior to 1996-97)

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RP 354 Planning Design

3c-01-3sh

Prerequisite: RP 350

Presents concepts of city, subdivision, and transportation design in relation to topography, natural resources, and other physical elements. (Offered as GE463, Planning: Design prior to 1996-97)

RP 412 Research Seminar

3c-01-3sh

Prerequisite: RP468

This senior seminar and workshop is a capstone course that focuses on recent research in the major field. Students carry out a research project on a topic of local or regional importance. (Also offered as GE412; may not be taken for duplicate credit) (Offered as GE312, Research in Geographical Planning prior to 1996-97)

RP 415 Remote Sensing

3c-01-3sh

Deals with air photographs, satellite imagery, thermal sensing, and radar imagery and their application to deriving information about the earth's physical and cultural landscapes. (Also offered as GE415; may not be taken for duplicate credit)

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RP 417 Geographic Information Systems Applications Development

3c-0l-3sh

Prerequisite: RP 316 Introduction to GIS

A project-based class in which students learn the skills to develop and maintain a Geographic Information System. Through cooperative learning students will design and implement functional systems. Methods for designing GIS systems to user specification, data collection, data input, project management, and system documentation are covered. (Also offered as GE417; may not be taken for duplicate credit)

RP 458 Land Use Law

3c-0l-3sh

Prerequisite: RP 350

Introduces students to principles of land use law. The course focus is on federal constitutional principles and key Supreme Court cases, especially as they relate to actions of local units of government and municipal planning practice. The course deals with the present state of land use law and with current trends and issues.

RP 464 Land Use Policy

3c-0l-3sh

Prerequisite: RP 350

Introduces students to and provides an overview of land use issues at the regional, state, and federal levels. Emphasis is placed upon the evolution of contemporary policy strategies, constitutional issues, and regional controversies involved in the regulation of metropolitan growth, central city decline, and management of public lands. (Also offered as GE464; may not be taken for duplicate credit)

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RP 468 Planning Theory

3c-0l-3sh

Prerequisite: RP 350, RP 352, RP 354, or permission of instructor

Seminar on contemporary debates concerning planning traditions, principles, and practices. The activity of planning is investigated from several theoretical frames and analytic positions. (Offered as GE462, Planning: Development, Principles, and Theory prior to 1996-97)

RP 481 Special Topics

3c-0l-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students. (May also be offered as GE481; may not be taken for duplicate credit under same title)

RP 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and provost's office
Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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RP 493 Internship

var-1-12sh

Professional learning experience with emphasis on application of academic background. Open to majors and minors in regional planning with a total of 57 semester hours and 15 hours in the major. See internship supervisor for additional

information.

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Biochemistry

Biochemistry Program College of Natural Sciences and Mathematics

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

[BC301](#) [BC302](#) [BC311](#) [BC312](#) [BC480](#) [BC481](#) [BC482](#) [BC490](#)

BC 301 Biochemistry I

3c-0l-3sh

Prerequisites: BI105 and CH232

Introduction to biochemistry emphasizing the structure and function relationships of proteins, enzymes, and vitamins; bioenergetics; and the metabolism of carbohydrates and lipids.

BC 302 Biochemistry II

3c-0l-3sh

Prerequisite: BC301

Continuation of BC301 concerning the metabolism of nitrogen, amino acids, nucleotides, and nucleic acids and the function of cell membranes, hormones, and specialized tissues.

BC 311 Biochemistry Laboratory I

0c-4l-1sh

Prerequisites: BI105 and CH232

A companion to BC301 including experiments in photometry, enzyme kinetics and purification, lipid isolation and characterization, electron transport in respiration and photosynthesis, and use of radioisotopes.

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BC 312 Biochemistry Laboratory II

0c-4l-1sh

Prerequisite: BC311

A companion to BC302 including experiments in membrane characterization, properties of amino acids, isolation and function of nucleic acids, and synthesis of proteins and nucleic acids.

BC 480 Biochemistry Seminar I

1c-0l-1sh

Prerequisites: BC302 and 312

Discussion of recent trends in biochemical thought. Oral and written reports on assigned readings, library or laboratory research. Guest lecturers. The combination BC480 and BC490 counts as one writing-intensive course.

BC 481 Special Topics in Biochemistry

var-1-3sh

Prerequisites: BC302 or CH351

A lecture-discussion course of recent biochemical topics or those of unique interest. Topic and instructor to change annually.

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BC 482 Independent Research in Biochemistry

var-1-3sh

Prerequisites: BC302 and 312, permission by program coordinator

Student conducts a research project in any area of biochemistry. Work supervised by faculty. Does not involve regular class or lab hours. Enrollment by permission only.

BC 490 Biochemistry Seminar II

1c-0l-1sh

Prerequisites: BC302, 312, and 480

Discussion of recent trends in biochemical thought. Oral and written reports on assigned readings, library or laboratory research. Guest lecturers. The combination BC480 and BC490 counts as one writing-intensive course.

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