



Undergraduate Catalog

2007-2009

Frostburg State University
101 Braddock Road
Frostburg, Maryland 21532-2303

www.frostburg.edu

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Accreditation

Frostburg State University is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104 (267-284-5000). The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation.

Each of the following programs is accredited by a specialized accrediting agency recognized by the U.S. Secretary of Education:

- B.A./B.S. in Athletic Training: Commission on Accreditation of Allied Health Education Programs (CAAHEP)
- B.A./B.S. programs in Electrical and Mechanical Engineering, in collaboration with the University of Maryland College Park: Accreditation Board for Engineering and Technology (ABET)
- B.A./B.S. in Recreation and Parks Management: National Recreation and Park Association/American Association for Leisure and Recreation (NRPA/AALR)
- B.A./B.S. in Social Work: Council on Social Work Education (CSWE)
- Teacher Education Programs: National Council for the Accreditation of Teacher Education (NCATE) with recognition by 14 professional content associations for compliance with national standards; also approved by the Maryland State Department of Education (MSDE) as consistent with the Maryland Redesign of Teacher Education

Other Specialized Accreditors:

- M.S. in Counseling Psychology: Master's in Psychology Accreditation Council (MPAC)
- Counseling and Psychological Services: International Association of Counseling Services
- Brady Health Center: Accreditation Association for Ambulatory Health Care (AAAHC)

The provisions of this catalog are not to be regarded as an irrevocable contract between the University and the student. The University reserves the right to change any provisions of requirement at any time, but its practice is to not make changes in degree and admission requirements retroactive. Other regulations and procedures and course offerings may change during the period of your enrollment. Whenever possible, such changes will be published in official University publications such as the Undergraduate Catalog and Registration Guidelines, and on the University Web site, with prior notice of changes provided. However, if circumstances require, such changes may be made without notice.

NOTE: Notwithstanding any other provision of this or any other University publication, the University reserves the right to make changes in tuition, fees, and other charges at any time such changes are deemed necessary by the University and the University System of Maryland Board of Regents.

FSU is committed to making all of its programs, services and activities accessible to persons with disabilities. You may request accommodations through the ADA Compliance Office, 301/687-4102, TDD 301/687-7955.

Frostburg State University is an Affirmative Action/Equal Opportunity institution. Admission as well as all policies, programs and activities of the University are determined without regard to race, color, religion, sex, national origin, age or handicap.

Welcome to Frostburg State University

Dear Frostburg State University Student and Friends:

This catalog is designed to be a road map to your future at Frostburg State University. It will direct you to valuable information regarding the College of Liberal Arts and Sciences, the College of Education and the College of Business. It will lead you through our many programs of study, giving details about every course available at the time of printing, and it will guide you to the best opportunities for financial aid. It will give you useful information about our academic policies and procedures. In short, this catalog will provide a description of what we offer and how you can become a part of Frostburg State University.

Like any map, what it cannot provide is the experience of Frostburg State University. It cannot describe the quality of our faculty and our support personnel. You may note that more than 90% of our faculty have Ph.D.'s, but it is important to know that they publish in the most prestigious books and journals in the world, while still giving their full support and attention to their students. They pride themselves on the close and personal connections they form with students. It doesn't tell you that we employ one faculty member for every 17 students and that you will never sit in a lecture hall with hundreds of students. It also cannot express the importance we place on providing support through our Advising Center, our Orientation Program or our Learning Communities, in which all incoming freshmen join a group of students with similar interests, then take some of their general education courses with those same students. Enduring friendships are often born of these communities.

This catalog cannot give you a true sense of this beautiful, uncrowded campus in the mountains of Western Maryland, nor can a catalog convey the environment that so many students say enhances both their learning and their development as human beings. These qualities can only be realized from experiencing this campus and allowing us the privilege of providing you an education.

We are glad you have chosen Frostburg and look forward to your becoming an engaged member of our community who will remember mentors, friends, and intellectual challenges when you think of Frostburg State University in years to come.



Dr. Jonathan Gibraltar
President, Frostburg State University

A handwritten signature in black ink, reading "Jonathan Gibraltar". The signature is fluid and cursive, with the first name "Jonathan" written in a larger, more prominent script than the last name "Gibraltar".

Jonathan Gibraltar, President



Academic Calendar 2007-2008

For all deadlines: action must be completed by 4:30 p.m. on the date specified.

Fall Semester 2007

August 23	Orientation and Testing New, Non-Registered Students Only
August 24	Advising and Registration New, Non-Registered Students Only
August 26	Residence Halls Open - 9 a.m.
August 27	Classes Begin
August 27 - 31	Late Registration/Drop/Add
August 31	Last Day to Add Classes
September 3	Labor Day - No Classes
September 28 - 30	Family Weekend
October 8	Last Day for GRADUATE Students to Withdraw with "W"
October 8	Last Day for UNDERGRADUATE Student Grade Change for Spring 2007 and Summer 2007 (including Removal of Incomplete - "I" - Grades)
October 9	Mid-semester Warnings Distributed to UNDERGRADUATE Students
October 19 - 21	Homecoming Weekend
October 22	Last Day for UNDERGRADUATE Students to Withdraw with "W"
October 29 - Nov. 16	Spring 2008 Registration (Without Payment)
October 29 - Dec. 7	Interession Registration (With Payment)
November 20	Residence Halls Close - 7 p.m.
November 21 - 25	Thanksgiving Recess
November 25	Residence Halls Open - 12 p.m.
November 26	Classes Resume
December 7	Last Day for GRADUATE Students to Remove Incomplete ("I") Grades
December 7	Last Day to Withdraw from Classes with "WF"
December 7	Last Day of Classes
December 8 - 9	Reading Days/Common Exams
December 8 - Jan. 2	Interession Late Registration (With Late Fees)
December 10 - 14	Final Exams
December 12	Interession Course Cancellations
December 14	Residence Halls Close - 7 p.m.
December 15	Commencement

Spring Semester 2008

January 24	Orientation and Testing, 1:00 p.m. New, Non-Registered Students Only
January 25	Advising and Registration New, Non-Registered Students Only
January 27	Residence Halls Open - 9 a.m.
January 28	Classes Begin
January 28 - Feb. 1	Late Registration/Drop/Add
February 1	Last Day to Add Classes
March 7	Last Day for UNDERGRADUATE Student Grade Change for Fall 2007 and Interession 2008 (Including Removal of Incomplete - "I" - Grades)
March 7	Last Day for GRADUATE Students to Withdraw with "W"
March 10	Mid-semester Warnings Distributed to UNDERGRADUATE Students
March 14	Residence Halls Close - 7 p.m.
March 16 - 23	Spring Break
March 23	Residence Halls Open - 12 p.m.
March 24	Classes Resume
March 28	Last Day for UNDERGRADUATE Students to Withdraw with "W"
March 31 - April 18	Fall 2008 Registration (Without Payment)
March 31 - May 2	Summer Sessions Registration (With Payment)
May 3 - May 20	Late Registration for Summer Sessions for Continuing Students (w/Late Fees)
May 6	Summer Sessions Course Cancellations for Sessions Beginning May 19
May 9	Last Day for GRADUATE Students to Remove Incomplete ("I") Grades
May 9	Last Day to Withdraw from Classes with "WF"
May 9	Last Day of Classes
May 10 - May 11	Reading Days/Common Exams
May 12 - May 16	Final Exams
May 16	Residence Halls Close - 7 p.m.
May 16	Honors Convocation - 7:30 p.m.
May 17	Commencement
May 19	Summer Session 2008 Classes Begin

Interession 2008

Residence halls open, noon	Jan. 1
Classes begin	Jan. 2
Martin Luther King Day, no classes	Jan. 21
Last day of classes	Jan. 25

Summer Sessions 2008

First Summer Session begins May 19
See the Summer Session Schedule Booklet for complete calendar.

The University

The Mission of the University

Summary Mission Statement

Frostburg State University has provided paths to success for students for over 100 years. Founded in 1898 to prepare teachers, the institution today is a public, comprehensive, largely residential regional university offering a wide array of affordable programs at the undergraduate and graduate levels. The only four-year institution of the University System of Maryland west of the Baltimore-Washington corridor, the University serves as the premier educational and cultural center for western Maryland. At the same time, it draws its student population from all counties in Maryland, as well as from numerous other states and foreign countries, thereby creating a campus experience that prepares students to live and work in a culturally diverse world.

The University is distinguished by a scenic campus encircled by mountains, its excellent academic programs, its nationally acclaimed community service programs, and its vital role in regional economic development initiatives. As a result, it holds the distinction of being one of the University System institutions most closely woven into the fabric of the surrounding area.

Frostburg State University is, first and foremost, a teaching institution in which students are guided and nurtured by dedicated, highly qualified faculty and staff. Faculty engage in wide-ranging research and scholarly activity with the ultimate goal of enhancing student learning. The academic experience of undergraduates includes a rigorous general education program in the liberal arts and sciences, including development of core skills. Major areas of specialization are offered in education, business, science and technology, the creative and performing arts, and selected programs in the humanities and social sciences. The University provides numerous opportunities for students to engage in community service, leadership development activities, undergraduate research, and internships. These activities serve as experiential laboratories in which students apply what they have learned in the classroom to real-world situations. Graduate programs provide specialized instruction for students involved in or preparing for professional careers.

Frostburg State University continues to define its core mission as providing pathways to success – in careers, in further education, and in life – for all of its graduates.



Statement on Liberal Education

We believe that liberal education empowers students and frees them from ignorance by informing them about the world, its histories, methods of inquiry, and values. Liberal education develops students' intellects and enhances their love of learning and awareness of individual and social responsibility by encouraging them to learn and apply knowledge to solve important problems.



Undergraduate Institutional Learning Goals

Frostburg State University's Institutional Learning Goals reflect the mission of the University through a focus on five specific areas of student learning. Individual departments, programs, and services will provide opportunities, where appropriate, for you to attain the skills and dispositions identified by the University as essential to education.

1. Liberal knowledge and skills of inquiry, critical thinking, and synthesis

You will acquire knowledge in the humanities, the natural sciences, the social sciences, and the arts, which collectively embody the human cultural heritage. You will develop your abilities to practice higher-level critical thinking.

You will

- a. apply different methods of inquiry from various perspectives and disciplines to gather information;
- b. comprehend and apply various research methods to evaluate information critically;
- c. analyze complex issues and construct logical conclusions;
- d. use problem-defining and problem-solving skills by synthesizing ideas within and across disciplines;
- e. demonstrate sustained intellectual curiosity.

2. Core skills

You will become proficient in reading, writing, speaking and listening. You will also develop quantitative literacy and technological fluency.

You will

- a. comprehend and critically interpret information in written and oral forms;
- b. communicate information and ideas effectively;
- c. understand and apply mathematical reasoning to solve quantitative problems and to evaluate quantitative information and arguments;
- d. use technological resources to access and communicate relevant information.

3. Acquisition and application of specialized knowledge

You will gain knowledge and skills appropriate both for your field of study and to enter into the professional sector and/or graduate school.

You will

- a. demonstrate technical and analytic skills that are appropriate to your field of study and applicable to future careers;
- b. acquire research skills and specialized vocabulary for critical discourse;
- c. demonstrate competencies and achievements appropriate to your field of study;
- d. apply classroom learning in a combination of reflective practice and experiential education.

4. Values & social responsibility

You will critically explore, evaluate, and define your values and become a responsible citizen in a complex and changing society.

You will

- a. demonstrate respect and tolerance for other cultures and societies;
- b. make professional and personal judgments based on ethical considerations and societal values;
- c. exhibit civic responsibility and leadership;
- d. understand the purpose and value of community service in advancing society;
- e. demonstrate an awareness of and appreciation for the natural environment.

5. Appreciation of cultural identities

You will gain insight into the ways cultural identities and experiences shape individual perspectives of the world and influence interactions with people from different backgrounds.

You will

- a. demonstrate the knowledge, skills, and attitudes essential for communicating and cooperating effectively with people of diverse backgrounds;
- b. understand the cultural and social exercise of power;
- c. recognize and appreciate arguments supporting perspectives different from your own.

Academic Programs

You can make the most of your undergraduate education by fully exploring the options open to you. Selecting your major is only one step in the process. The University offers many special areas of study within your major and outside your major which can enhance your learning and future job possibilities.

Majors

Frostburg State University offers 41 different undergraduate majors, many of which allow you to choose a specialization within a broader field of study. In addition, two engineering majors are offered in collaboration with the University of Maryland, College Park. These programs are taught by faculty assigned to one of three colleges: the College of Business, the College of Education and the College of Liberal Arts and Sciences.

College of Business

- Accounting
- Business Administration
 - finance
 - * corporate finance
 - * financial planning
 - general management
 - human resource management
 - integrated business
 - marketing
 - small business/entrepreneurship
- Economics
 - business economics
 - public policy economics
 - quantitative economics

College of Education

- Athletic Training
- Early Childhood/Elementary Education
- Elementary Education
- Exercise & Sport Science
- Health & Physical Education
- Recreation & Parks Management
 - adventure sports
 - community program delivery
 - hospitality management & tourism
 - therapeutic recreation

College of Liberal Arts & Sciences

- Art and Design+
- Biology+
 - biotechnology
 - environmental science
- Chemistry+
 - biochemistry
 - professional chemistry

- * traditional chemistry
- Communication Studies
 - * professional communication
 - * interdisciplinary
- Computer Science
 - information systems
 - networks
- Criminal Justice
- Earth Science+
 - environmental science
- Electrical Engineering (in collaboration w/UMCP)
- English+
 - creative writing
 - literature
 - professional writing
- Environmental Analysis & Planning
- Ethnobotany
 - biogeography
 - cultural studies
 - pharmacological ethnobotany
- Foreign Languages & Literature+
 - French
 - Spanish
- Geography
 - global systems analysis
 - mapping sciences
- History
 - international history
 - history of the Americas
- Interpretive Biology & Natural History
- Law & Society
 - criminal justice
 - legal studies
- Mass Communication
- Mathematics+
- Mechanical Engineering (in collaboration w/UMCP)
- Music+
 - * instrumental performance
 - music management
 - vocal performance
- Philosophy
- Physics+
 - * engineering physics
 - * traditional physics
- Political Science
- Psychology
- Social Work
- Sociology
 - *applied social research
 - *general sociology

Theatre

- *acting
- *directing
- *general theatre
- *production
- Urban & Regional Planning
- Wildlife & Fisheries

Inter-College Programs

- Health Science Administration
- Information Technology Management
- International Studies
 - international business
 - international development
 - international economics
 - international politics
- Liberal Studies
- Social Science+

Minors

You may also select from 43 minors. Minors require a minimum of 18 credit hours in an area of study outside your major. Minors are offered in most of the major fields. Distinctive minors (no similar majors offered) include:

College of Business:

- Finance
- Financial Services
- Management
- Marketing

College of Education:

- Coaching
- Health Promotion

College of Liberal Arts & Sciences:

- African American Studies
- Art History
- Cultural Anthropology
- Dance
- Environmental Humanities
- Environmental Policy
- Film Studies
- Fine Arts
- Forestry
- Graphic Design
- Journalism
- Public Relations
- Women's Studies

Inter-College:

- International Studies
- Leadership Studies

- = concentration
- * = track
- + = teaching certification option



Lowndes Hall



Distinctive Areas of Study and Focuses

The University offers a number of special course groupings which prepare you for different professions or graduate programs, or give you academic distinction. Each of these areas of study is fully described in each College's section of this catalog.

College of Business:

B.S. Accounting/MBA Dual Degree

College of Education:

Educational Professions

Education: K-12 Programs

Education: Secondary Programs

College of Liberal Arts and Sciences:

B.S. Physics/M.S. Applied

Physics Dual Degree

Dental Hygiene Preparation

Engineering: Dual Degree Program

Law: Law School Preparation, Bachelors/Juris Doctor Dual Degree Program

Mathematical Sciences (Focus)

Medical Technology Preparation
Medicine, Dentistry, Optometry,

Veterinary Medicine Preparation

Nursing Preparation

Occupational Therapy Preparation

Pharmacy Preparation

Physical Therapy Preparation

Inter-College

Honors Program

Certificate Programs

Degree-seeking undergraduates and non-degree-seeking community members may earn a certificate in several specialized areas. Certificate programs are designed to provide specialized skills and knowledge that may enhance your undergraduate program and/or provide skills useful in employment. Undergraduate certificates include a minimum of 12 credit hours.

The following certificate programs currently are offered. See the descriptions in the College of Liberal Arts and Sciences section of this catalog.

Addictions Counseling (Psychology)

Computer Print Graphics (Visual Arts)

Computing Technology (Computer Science)

Software Development (Computer Science)

Programming (Computer Science)

Networking (Computer Science)

International Area Studies (International Studies - Inter-College)

Professional Writing (English)

Public Administration (Political Science)

Child and Family (open only to degree-seeking Psychology majors)

Choosing a Major

Career Services publishes a guide to selecting a major which is available in Sand Spring Hall. This office can also offer you counseling in selecting a major. Here is a list of additional campus resources which can help you decide.

- ▶ The Advising Center is here to assist you if you have not declared a major or are considering changing your major
- ▶ Majors Fair: Annually in September
- ▶ Career Day: Annually in October
- ▶ DISCOVER: An online career guidance program
- ▶ FSU Connections: Learning communities
- ▶ Faculty in departments offering majors which interest you
- ▶ ORIE 101: Introduction to Higher Education
- ▶ Office of Student and Educational Services
- ▶ Counseling and Psychological Services
- ▶ Programs for Academic Support and Study (PASS)

Declaring a Major

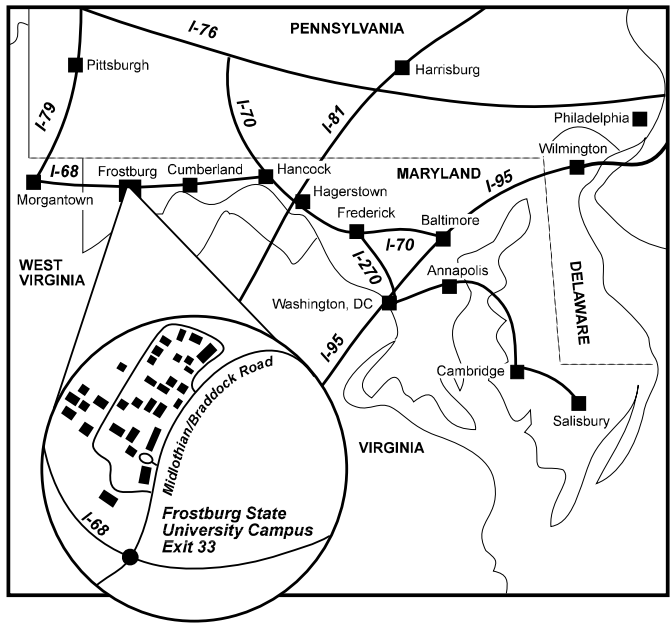
You may declare a major during admission, in your first semester through ORIE 101: Introduction to Higher Education, or by making an appointment with the chair of the department in which you would like to major.

Many students become concerned about declaring the "right" major, but a major is never a final choice. You may change majors as many times as you like. Other students feel uncomfortable because they are not ready to declare a major. You may take up to 60 credits, however, before you are expected to declare a major.

The Campus and Its Surroundings

Frostburg State University is located in the Appalachian highlands (elevation 2,000 feet) of western Maryland. The main campus covers 260 acres within the town limits of Frostburg (population 7,500). The University also offers courses at the University System of Maryland at Hagerstown and on the Catonsville Campus of the Community College of Baltimore County.

The local region is rich in both history and outdoor activities. Students can visit nearby recreational areas—Rocky Gap, New Germany, and Deep Creek Lake State Parks—which offer camping, boating, swimming, hiking, and skiing.



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Getting to FSU
From Baltimore and east: take I-70 west to I-68 west at Hancock, MD. Continue to the second exit for Frostburg, Exit 33 (Midlothian/Braddock Road). Bear right and proceed approximately one mile to the main entrance to the FSU campus.

From Morgantown, WV, and west: take I-68 east to Exit 33 (Midlothian /Braddock Road). Turn left onto Braddock Road and proceed approximately one mile to the main entrance to the campus.

To the USM at Hagerstown: take I-70 west from Baltimore and exit onto I-81 north. Take the Downtown Hagerstown exit and follow Route 40 east. Route 40 through Hagerstown is also named Washington Street. The University System of Maryland at Hagerstown is located at 32 W. Washington St..

Facilities

The University buildings and grounds, set on 260 acres, make learning, living and working on our campus a special pleasure. Nature easily enters into the daily lives of students: buildings are set around grassy quads; varieties of plants and the surrounding woods change with the seasons.

The University is also the Coordinating Institution for the University System of Maryland at Hagerstown which opened a new facility in downtown Hagerstown in 2005.

The Main Campus

Our classroom buildings include Compton Science Center, Dunkle, Fine Arts, Framptom, Gunter, Lowndes, Old Main, Pullen, Tawes and the Guild Human Resources Center. Students also attend classes in the Performing Arts Center and the Cordts Physical Education Center.

In addition to specialized departmental labs in all departments, science facilities include a planetarium, greenhouse, live animal rooms, centrifuge, herbarium, arboretum, biotechnology center and electron microscope. Recently, science facilities have greatly expanded and improved through the renovation of Gunter Hall, and the addition of a new Compton Science Center. The state-of-the-art Appalachian Laboratory of the USM Center for Environmental Studies also provides research facilities for FSU students and faculty, as will the new research park.

Thirty-four percent of our students live on campus in eleven residence halls: Allen, Annapolis, Cambridge, Cumberland, Diehl, Frederick, Frost, Gray, Simpson, Sowers, and Westminster. Edgewood Commons, a privately owned apartment-style complex on campus opened in fall 2003.

Student meals are served in the Chesapeake Dining Hall, the Appalachian Station in the Lane Center, and at Sub Zero in Sowers Hall.

Driving Times to Frostburg	
Baltimore	2 1/2 hrs.
Frederick	1 1/2 hrs.
Hagerstown	1 hr.
Harrisburg	2 hrs.
Johnstown	1 hr.
Morgantown	1 hr.
New York	6 1/2 hrs.
Norfolk	6 1/2 hrs.
Philadelphia	4 1/2 hrs.
Pittsburgh	2 1/2 hrs.
Richmond	4 hrs.
Salisbury (MD)	5 1/2 hrs.
Somerset (PA)	3/4 hr.
Washington, D.C.	2 1/2 hrs.

Executive offices are located in the Hitchins Administration Building.

Pullen and Sand Spring Halls house most student services offices. In Pullen, you will find Admissions and Financial Aid, the Registrar, University and Student Billing, Office of Graduate Services, Programs for Academic Support and Studies (P.A.S.S.), Disability Support Services, and Student Support Services. Sand Spring Hall is the temporary home to Counseling and Psychological Services, Career Services, the Career Resource Center, Veterans' Affairs, Upward Bound and the Regional Math/Science Center. The University Children's Center has its own building next door.

Specialized Facilities

The Library

The Lewis J. Ort Library provides a wealth of research and reference materials for student and community use.

- ▶ Over one-half million print volumes in the collection, with over 4,000 onsite reference titles
- ▶ Web access to library holdings and to request circulating materials from the other University System of Maryland and Affiliated Institutions' (USMAI) libraries, a consortium of 30 academic libraries
- ▶ Onsite reference assistance and e-mail reference at www.frostburg.edu/dept/library/userserv/reform.htm
- ▶ Media center of non-print materials and teacher materials collection
- ▶ U.S. Government documents including electronic repository and Maryland Government documents and maps
- ▶ Periodical collection with over 700 print subscriptions and 22,000 Web access titles
- ▶ Special collections with emphasis on Western Maryland
- ▶ Extensive archival research collections on Western Maryland's two U.S. Senators (J. Glenn Beall and J. Glenn Beall, Jr.), the Communist Party USA, and railroad photography
- ▶ Interlibrary loan services to request research materials that are not available at FSU from other libraries
- ▶ Individual and group instruction in information literacy for use of the library's print/electronic resources with effective research strategies
- ▶ Public Internet work stations, a 24-station electronic classroom and wireless internet access

Visit the Lewis J. Ort Library Web site at www.frostburg.edu/dept/library

Performing Arts Center

Students studying dance, music, theatre and communication can flourish in the Performing Arts Center. It contains three state-of-the-art theaters (Pealer Recital Hall, Drama Theater, Studio Theater), rehearsal spaces, music practice rooms and electronic labs, shops, offices, classrooms and facilities for the hearing-impaired. Campus and community audiences are welcome at a wealth of concerts and performances. For information, contact the Facilities Manager at 301/687-7460.



FSU's Performing Arts Center



FSU's new Compton Science Center houses the departments of biology, chemistry, physics and engineering.

Lane University Center

This student union was built and operates with student fees. It contains student organization offices, the FSU Bookstore, meeting and game rooms, The Appalachian Station restaurant and The Loft. Lane University Center programs and services are described in the Campus Life chapter.

Harold J. Cordts Physical Education Center

Students with valid University identification can use the extensive indoor and outdoor facilities of the Harold J. Cordts Physical Education Center:

- ▶ Three gymnasiums for basketball and other sports
- ▶ Swimming pool with 12-ft diving well
- ▶ Weight rooms, free weights, and Badger Magnum machines
- ▶ Racquetball and squash courts
- ▶ Outdoor tennis courts, football stadium with new lighting and synthetic turf, all weather track facilities
- ▶ Baseball, soccer, softball and other athletic fields

For information on availability, contact the Director at 301/687-4471.

Academic Computing

Students have access to a rich computing environment that includes specialized department labs housed in various campus buildings as well as the main University Computer Center located in Pullen Hall. The University Computer Center offers:

- ▶ Apple and Windows workstations connected to the campus network and the Internet.
- ▶ Scanning and printing facilities.
- ▶ Standard software including word processing, spreadsheets, databases, Internet browsers, Email, programming languages, graphics production and library access.
- ▶ Access to statistics packages, programming languages, and database programs through academic servers.

Additionally, Academic Computing offers:

- ▶ Support for various labs located on campus.
- ▶ Operational support for the 24 hour/7 days a week lab in Ort Library 210 (access via student ID only).
- ▶ Training for computer lab assistants in other departments.
- ▶ Support for Blackboard, PAWS, Email, etc.
- ▶ Support for students with connectivity problems to FSU's network.
- ▶ Campus Help Desk (x7777 from on-campus 301/687-7777 from off-campus).

Academic Computing may be reached at 301/687-7090. Visit our web site at www.frostburg.edu/admin/acacom.

Distance Education

The principal mission of distance education at Frostburg is to enhance your access to the University's academic programs. The University is committed to providing you the support and resources you need to succeed as a participant in distance education.

Online courses at FSU allow you to pursue your degree requirements outside of the traditional classroom setting and can accelerate or enhance your time to degree. They also help you acquire the technical skills and learning strategies important to the pursuit of your academic and career goals. Courses taught online at FSU have most of their class materials (other than textbooks) available electronically and use the web as the primary means of communication. These courses may require some on-site contact between you and the instructor (e.g., an orientation session or proctored testing) at various times throughout the academic term. Frostburg State University's online courses are open to all eligible students who are prepared to learn in an online environment.

Interactive Video instruction at FSU is conducted through the University System of Maryland's Interactive Video Network (IVN). This network allows you the opportunity for interaction with other institutions within the state of Maryland and beyond, particularly between the University System of Maryland at Hagerstown and FSU's main campus.

For information about Frostburg State University's distance learning opportunities, contact the Center for Instructional Technologies.

University Children's Center

The University operates a licensed Pre-School/Extended Child Care Program for the children of students, employees and community residents from Monday through Friday, 7:45 a.m. to 5:00 p.m. Developmentally-appropriate experiences are provided for three, four and five-year-olds in art, math, science, cooking, music and movement, dramatic play, large muscle and fine motor activities. The Center is located on University Drive (across from Bobcat Stadium). For more information, call 301/687-4027.

Women's Studies Resource Center

The Women's Studies Resource Center provides a place for students to find resource materials on gender issues and to get information about the Women's Studies Program. The Center is located in Room 510 of the Ort Library. Hours vary, so contact a Women's Studies coordinator for more information: 301/687-4130 or 301/687-4047.

The University System of Maryland at Hagerstown

In January 2005, Frostburg State University's Hagerstown and Frederick Centers joined with the new University System of Maryland at Hagerstown to offer expanded educational opportunities to the citizens of Washington and Frederick County. Frostburg State University is the Coordinating Institution for programs offered by a number of USM institutions.

The USM at Hagerstown, located in a newly renovated building in downtown Hagerstown, offers classes from 9:00 a.m. through 11:00 p.m., Monday through Friday, and on Saturday mornings. Most classes are offered in the late afternoon or evening, though classes utilizing interactive distance learning may be offered throughout the day. On-line courses are also available.

Undergraduate programs build on programs available at area community colleges, offering junior/senior level courses leading to bachelor's degrees in such fields as accounting, business administration, criminal justice, early childhood/elementary education (early childhood specialization), information systems management, liberal studies, nursing, social science, and sociology. Graduate programs include the Master of Business Administration, the Master of Arts in Teaching (Elementary and Secondary/K-12 - mathematics and science), the Master of Education in several specialty areas, the Master of Engineering, and the Master of Science in Nursing. Both undergraduate and graduate programs in social work are proposed.

For further information, contact the USM at Hagerstown at 240/527-2060.

Other Instructional Sites

The B.A./B.S. in recreation and parks management, including the therapeutic recreation concentration, is offered at the Catonsville Campus of the Community College of Baltimore County. Classes begin in January 2008 for the next cohort of students interested in earning the M.S. in Park and Recreation Resource Management. The host site proposed is the Baltimore County Parks and Recreation Department.



Edgewood Commons, FSU's newest apartment-style residence hall.

Diversity and Equal Opportunity

Frostburg State University affirms its commitment to a campus environment which values human diversity and respects individuals who represent that diversity. Fostering diversity and respect for difference is a fundamental goal of higher education, ranking among the highest priorities of this institution.

In this spirit, Frostburg State University is committed to a policy of equal opportunity and to the elimination of discrimination in both education and employment on the basis of race, color, national origin, ethnic background, gender, sexual orientation, age, creed, political or religious opinion or affiliation, disability, veteran's status or marital status, in conformity with all pertinent Federal and State laws on non-discrimination and equal opportunity.

The following policies guide the University in meeting its aims of diversity and equal opportunity. Copies of these policies are available in the ADA/EEO Compliance Office (301/687-4102).

- Affirmative Action/Equal Employment Opportunity (PN 1.002)
- Sexual Harassment Policy (PN 1.004 Revised)
- Policy on Diversity (PN 1.006)
- Policy of Non-Discrimination/Equal Opportunity (PN 1.008)
- Policy on Compliance with Disability Discrimination Laws (PN 3.073)

Americans with Disabilities Act

Frostburg State University does not discriminate on the basis of disability in admissions or in access to any of its programs or activities.

It is committed to full compliance with the Americans with Disabilities Act (ADA). The ADA requires that all University programs, services, and activities be accessible to qualified individuals with disabilities. If a program or service is inaccessible to disabled persons, the University maintains responsibility for providing reasonable accommodations to ensure accessibility. This includes, but is not limited to, access to classes, lectures and all campus-sponsored events, on-campus housing, and all facilities used by students and visitors. You may request accommodations through the ADA/EEO Compliance Office (301/687-4102; TDD 301/687-7955).



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"Diversity is important because we need to know more about each other. It is not realistic at this stage in history to know only about our own culture. It is a necessity to relate to and understand a variety of cultures in the workplace and in the global community."

Tracee Wilkins
Mass Communication

University History

1898	The Maryland General Assembly authorized State Normal School #2 and a \$20,000 appropriation for a building. The Governor selected Frostburg as a site because the residents offered the best suitable location without cost to the State.
1898	Townpeople raised the money to buy Beall's Park—a two-acre site—for the State Normal School.
1900	Old Main—the first campus building—was completed.
1902	Fifty-seven students attended the first classes of the State Normal School at Frostburg. We offered a two-year program of elementary school teacher training.
1904	Our first commencement. Students received a diploma and a life-time teaching certificate.
1913	The Model School began operating in its new building. This was our first campus training school which allowed student teachers to work directly with children in the classroom.
1919	We opened our first residence hall.
1930	A six-room training school for student teachers replaced the 1913 Model School.
1931	Our teacher training program expanded from two to three years, and then from three to four years in 1934.
1935	● The institution's name changed to State Teachers College at Frostburg. ● The first four-year degree students graduated with Bachelors in Science in Elementary Education.
1946	The college first offered a liberal arts junior college program. This degree was discontinued in 1960 when four-year programs replaced it.
1947	We completed our first science building. It was followed by the Garrett Science Building in 1952, the Tawes Science Hall and Planetarium in 1968 and the Compton Science Center in 2003.
1949-50	50th Anniversary Year
1950-51	The State Legislature funded a 40-acre expansion to our campus and 5 new buildings.
1959	The new teacher-training laboratory school was completed and named after State Superintendent of Schools Thomas G. Pullen. It continued operating as an elementary school until 1976.
1960	The Board of Trustees granted Frostburg State Teachers College the right to confer the Bachelor of Arts degree and the Master of Education.
1961	Our first black student (Leon Brumback) graduated.
1963	In July, we became Frostburg State College.
1964-79	We experienced significant growth during these fifteen years. Six residence halls were completed as well as eleven campus buildings including the Chesapeake Dining Hall, Framptom Hall, Fine Arts, Dunkle Hall, Lane Center, the Lewis J. Ort Library, the Physical Education Center, Hitchins Administration Building, and the Stangle Service Building.
1971	The Master of Science in Management Degree was first offered. This degree was replaced by the MBA in 1989.
1975	The Appalachian Environmental Laboratory — part of the Center for Environmental Science of the University System of Maryland — opened on our campus.
1986	The Nelson P. Guild Center was completed to house the Social Sciences and Business programs.
1987	In July, our institution was granted University status.
1988	● We joined the University System of Maryland which is comprised of 11 of the State's 4-year institutions and two research institutions. ● The Center in Hagerstown opened.
1989	The first FSU Medallion was presented to Lewis J. Ort. Our second recipient was Governor William Donald Schaefer in 1990 and Gerald Arpino in 1994.
1990	The Frederick MBA program opened.
1991	Dr. Catherine Gira became the second woman president of our institution. Lillian C. Compton served as president from 1945-55.
1994	The Performing Arts Center was completed. On April 24, The Joffrey Ballet performed in the new Center in celebration of its debut on our campus 37 years ago.
1995	Bell Atlantic distance education classrooms were installed at Frostburg and the Hagerstown Center.
1998	The University celebrated its Centennial with a year-long series of events.
1999	The Center for Environmental Science's new Appalachian Laboratory building opens.
2000	FSU was the first-ever recipient of the Corporation for National Service's Higher Education Award for Leadership in National Service.
2001	Groundbreaking for Allegany Business Center at FSU
2002	Gunter Hall renovated and reopens.
2003	Compton Science Center and Edgewood Commons apartment complex open.
2005	FSU offers programs at the new University System of Maryland at Hagerstown.
2006	Dr. Jonathan Gibraltar becomes the 14th president of Frostburg State University.

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"Students would teach students [at the Frostburg Normal School]. You went straight on through high school to college. There was only one man in my class because teaching was more a woman's work. Men were often working in the mines."

Mabel Myers,
Education, 1913

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"Student Government and the College Center Board brought wonderful social, cultural and intellectual activities to campus. I remember picking up Strom Thurmond from the airport two days after George Wallace was shot."

The Honorable Martin Welch,
Political Science/Social Science, 1974

.....

"We spent at least two hours talking with [the students]. We found they had never seen a pair of pointe shoes. They wanted to know when and how a dancer began. It was revealing to us; we were preaching the gospel of dance!"

Gerald Arpino,
Artistic Director of the Joffrey Ballet,
describing the debut performance of the
Joffrey at FSU on Oct. 2, 1956.

Admission

Office of Admissions
114 Pullen Hall
301/687-4201; FAX 301/687-7074
e-mail: FSUAdmissions@frostburg.edu

Admission for Mature Adults

If you graduated from high school a minimum of three years prior to applying to FSU, you are excused from the SAT requirement. You still need to submit a transcript of your academic work, including the receipt of a high school diploma or GED.

Diagnostic Placement Tests

All entering first-year students with less than 13 transfer credits, and any transfer student with 13 or more transfer credits not transferring Freshman Composition and/or a college-level math course, will take diagnostic placement tests in reading, writing and mathematics to determine appropriate placement.

If you score below a predetermined standard on these examinations, you will be required to enroll in specified courses your first semester to develop your skills to a level which will enable you to function successfully at the University. You are expected to reach these levels within two semesters.

Transfer students

See separate section on the next page.

Special Standards

Admission to specific University degree programs may require higher standards or be limited by opportunities to complete the courses required for that program.

Right to Refuse Applications

The Associate Vice President for Enrollment Management reserves the right to deny or revoke applications for admission or readmission of any applicant whose former record(s) and/or observed conduct is incongruent with the established guidelines for student behavior and academic responsibility at Frostburg State University.

Campus Visits

The University does not require a campus visit for admission, but touring our facilities and speaking with students, faculty and administrators can give you a valuable perspective. Campus tours and personal interviews can be scheduled throughout the year. Contact the Office of Admissions between 8:30 a.m. and 4:30 p.m. to set up an appointment.

Gaining Admission

The University encourages applications from students prepared to join in the life of an intellectual community. First-year college students are granted admission on the basis of high school grade point average, performance on the SAT, completion of a college preparatory program, optional letters of recommendation, and an optional admissions essay.

First Year Admissions Procedures

Applications for admission are generally available through your high school guidance office, by contacting the Admissions Office at the University, or on the Internet at www.GoBobcats.frostburg.edu.

After completing the application, you should send it directly to the Admissions Office. A non-refundable application fee of \$30 (check or money order) should be included.

As part of your application, you must provide the Admissions Office with an official copy of your academic records. Applicants may use the records request form included in the application, but the University does not assume responsibility for requesting this information from your high school or any college you have attended.

Either the SAT or the ACT is required for admission. You should take the SAT or ACT in your junior or senior year of high school. All first-year applicants or transfer students with fewer than 24 transferable hours must have the results of the SAT/ACT sent to the University Admissions Office. Frostburg State University's College Board identification code is 5402. Frostburg's ACT identification code is 1714.

Application Dates

The University may have to close admissions when no further space for students is available. Consequently, applicants from high school should apply in the fall or early winter of the senior year. Beginning on September 15, the admissions office will start accepting applications for the fall semester of the following year.

Admission for the spring semester is granted on a space-available basis. Applications will be considered if received no later than December 1 for the subsequent spring semester. The University accepts applications

from first-year students who would like to begin in the spring semester.

High School GPA

First-year college applicants are granted admission on a rolling basis. Many admission decisions are made, consequently, on grades you have earned only through the end of the junior year. However, the first semester of your senior year can be pivotal in gaining admission and your remaining high school work must be successfully completed.

Performance on the SAT/ACT

Your performance on the SAT/ACT should be in the range that would normally predict success in college.

College Preparatory Program in High School

Entering first-year students must have 4 units of English; 3 units of social science/history; 3 units of science in at least two different subject areas (with 2 of the units including a laboratory experience); 3 units of mathematics including Algebra I (or Applied Math I & II), Algebra II and Geometry (or Formal Logic); and 2 units of a foreign language or, in Maryland, 2 units of advanced technology. The foreign language requirement may be waived for a student who demonstrates proficiency in a foreign language if the high school will provide certification of equivalent course work completed before high school.

If you have not taken the required courses, you may be admitted to the University with the understanding that courses in the deficient area(s) must be completed during the first year if you want to continue your studies.

Through advanced placement, applicants may have completed advanced courses before high school and opted out of certain required courses in high school. If you have taken advanced courses, the University assumes minimum requirements have been met.

Admission for GED Recipients

Applicants who received a general equivalency diploma must show GED subtest scores of at least 50 in English composition, social studies, natural sciences and literature (reading) and a score of at least 60 in mathematics. They must earn the same minimum SAT scores as other applicants.

Admission of International Students

The University welcomes applications from undergraduate international students who demonstrate university-level language proficiency in English. Students with international credentials, those who have completed part or all of their secondary and/or tertiary level education outside the United States, must follow the guidelines below in preparing their application. Students who are already studying in the U.S. on an F1 visa must provide all admissions documents and complete a "Transfer Eligibility" form in order to receive a new I-20. Exchange students who plan to study at FSU for only one or two semesters should contact the Center for International Education directly for application materials (301/687-4747).

- 1) An application for admission can be submitted online at **www.gobobcats.frostburg.edu**. The \$30 (U.S. currency only) non-refundable application fee can be paid with a valid credit card at the time of the application submission.
- 2) If your native language is not English, you are required to take the Test of English as a Foreign Language (TOEFL) and request that the Office of Admissions receive the results. More information on the test can be found on the Educational Testing Service web site at **www.ets.org**. A score of 79 or higher is required. Comparable scores on the paper or computer-based test will be accepted as well.
- 3) Provide official or notarized secondary school academic records which show grades earned, annual mark sheets, examination sheets and leaving certificates as they apply in your home country.
- 4) Have transcripts for institutions other than American institutions translated and evaluated by an approved evaluation service. Your credentials will be evaluated and a report forwarded to the Office of Admissions. No final action will be taken on your application for admission until the evaluation has been received.

- 5) Complete the Financial Confirmation form and submit it to the Office of Admissions. This form attests that either you or your sponsor is aware of the educational and living expenses and is prepared to provide the necessary funds. You must pay all educational costs for the semester in full at registration.
- 6) International students on F-1 and J-1 visas are required to purchase health insurance for the time they are in the United States. Cost of health insurance will be included on the students' bill each term. The Center for International Education enrolls students in the insurance program.
- 7) All required documents should be on file by June 1 for Fall admission, or October 1 for Spring admission. You cannot be granted admission or issued an I-20 until all required information has been received by the Office of Admissions or a DS-2019 until all required information has been received by the Center for International Education. If you are an international student residing outside the United States, you should not attempt to come to Frostburg State University before receiving a formal letter of admission and an I-20 or DS-2019 issued by Frostburg State University.

More detailed information about F-1 and J-1 visa category requirements may be found on the university's web site.

Admission for Transfer Students

Applicants who want to transfer to our University from a two-year or four-year institution will have their academic records audited by our Transfer Coordinator in the Admissions Office. The Coordinator will follow the guidelines listed below. If you have questions about the evaluation of transferable credits or the appeals process for this audit, please call the Associate Vice President for Enrollment Management.

- 1) Ordinarily, you must have a 2.0 cumulative average on a 4.0 scale and must have earned a minimum of 24 transferable semester hours of credit.
 - If an applicant has attended more than one institution, the cumulative GPA will be computed on grades received in courses from all institutions attended.
 - If you are a transfer student with fewer than 24 transferable credits, you must have a 2.5 minimum cumulative average and provide an official high school transcript and SAT scores to the Admissions Office prior to admission.
 - However, if you would have been admitted to the University as a high school senior and have achieved a 2.0 cumulative grade point average at a Maryland community college, you are eligible for transfer regardless of the number of credits you have earned.



- 2) You may not transfer more than 70 credits from a community or junior college. These credits are normally limited to the first two years at the undergraduate level and half the baccalaureate degree program requirements.
- 3) You are limited to a maximum of 90 credits when transferring from other four-year colleges and universities.
- 4) Transfer students are required to complete at least half their academic major requirements at Frostburg State. Additional requirements to complete a degree are listed in the Academic Program chapter.
- 5) When a student transfers, grades are not recorded on the FSU transcript for credits earned at other institutions and those credits are not computed into the student's FSU grade point average.
- 6) You will be given the option of satisfying the graduation requirements which were in effect at Frostburg State during the time you were enrolled as a first-year student at the sending institution. If you had more than two sequential years of non-enrollment since enrolling in an institution of higher education, you must meet the graduation requirements of the Frostburg State University catalog in effect at the time you first enroll at Frostburg State University.
- 7) If you are admitted to degree candidacy while still enrolled at another institution, you must maintain the required cumulative grade point average and remain in good academic standing during your most recent semester at that institution. Failure to meet this requirement will result in cancellation of the University's original offer of admission.

Transfer Policies

The Maryland Higher Education Commission has set policies for students transferring within the public higher education system in our state. These policies allow students in other state colleges and universities to plan a total degree program and make uninterrupted progress toward finishing that program if they transfer to Frostburg State.

The complete text of the Maryland Higher Education Commission General Education and Transfer Policy is reprinted in the Policies chapter of this catalog and is summarized below.

If you have completed an associate's degree or have completed 56 semester hours of credit at a Maryland community college with a cumulative grade point average of 2.0 or higher on a scale of 4.0, and if the credit is



from a college or university parallel course, you will be given direct transfer to Frostburg State.

If you have taken courses at a Maryland community college as part of a recommended transfer program leading to a baccalaureate degree, those courses will be applied to a related degree program at Frostburg State.

Acceptance of Transfer Credit

Transfer credit may be awarded for successful completion of course work compatible with the Frostburg State University curriculum, as documented by official transcripts forwarded directly by the sending institution to the FSU Office of Admissions. Such credit normally will be transferred only from regionally accredited institutions or institutions that are candidates for regional accreditation and for course work completed during military service that has been evaluated in the American Council on Education's *Guide to the Evaluation of Educational Experiences in the Armed Services*.

Credit earned at degree-granting higher education institutions that are not regionally accredited but that hold national or specialized accreditation recognized by the U.S. Department of Education; and at non-degree-granting institutions that are approved by the Maryland State Department of Education, the Maryland Higher Education Commission, or a state or local government agency authorized to approve curricula, will be considered for transfer only if an articulation agreement exists between Frostburg State University and the other institution or, at student request, on a case-by-case basis. If an individual review is requested, the student must provide the FSU Admissions Office a copy of the institutional

catalog or program of study, and copies of course syllabi for those courses for which transfer credit is desired. The Admissions Office will evaluate this transfer credit in consultation with the FSU departments offering the courses.

Readmission

If you previously were admitted and attended the University, but have been absent for one semester or more, you must submit an application for readmission. Contact the Admissions Office for a readmission application form. (See section on Leave of Absence in the Academic Regulations chapter of this catalog).

Restricted Grade Forgiveness Policy for Returning Students

If you are an undergraduate student returning to the University after an absence of at least five calendar years, you may petition the Admissions Office to remove up to 16 credits and their corresponding course grades from the calculation of your cumulative grade point average. To earn this grade forgiveness, you must (1) consult with the chair of the department in which you are majoring and (2) file a petition specifying the course credits to be deleted. This petition must be filed at the time of readmission and before you register for classes.

To be eligible for this restricted grade forgiveness policy, you must re-enroll in course work at Frostburg State University. You may only use the restricted grade forgiveness policy for returning students once in your undergraduate career.

Residency

Students enrolling at Frostburg State will be classified as in-state or out-of-state based on guidelines set by the Board of Regents of the University System of Maryland. This residency classification influences admission, tuition and other charges. Resident status is granted to students who have established permanent residency in Maryland based upon factors like living quarters, Maryland income tax payments, voter registration and a valid driver's license. The complete Board of Regents' Policy on Student Residency Classification, which fully explains the policy and the procedures for establishing in-state residency, is reprinted in this catalog's chapter on policies and is available on the Board of Regents web site.

Residency status is determined for first-time entering students by the Office of Admissions. Students seeking a review of their residency status will be required to respond to a Residency Questionnaire available through the Office of Admissions.

Once you are enrolled at the University, residency status is determined by the Registrar's Office. Students desiring a review of their residency status after enrollment can obtain the Residency Questionnaire from the Registrar's Office.

Certificate Programs

Degree-seeking undergraduates and non-degree-seeking community members may earn a certificate in specialized areas. Certificate programs are designed to provide specialized skills and knowledge that may enhance your undergraduate program and/or provide skills useful in employment. Undergraduate certificates include a minimum of 12 credit hours.

If you are not currently an FSU student, you may be admitted as a non-degree-seeking student to complete a certificate program. You must file an admission application and present evidence that you have a high school diploma or GED, or that you have been approved to participate in the dual enrollment high school/college program. Particular certificate programs may have additional admission requirements. Credits earned towards a certificate may later be applied to a degree if you choose to request, and qualify for, admission as a degree-seeking student. Credits also are transferable.

Academic Common Market

Frostburg State University participates in the Academic Common Market of the Southern Regional Education Board (SREB). Through this program, students pay resident tuition rates to attend unusual, specialized programs in other participating states.

As of May 2007, the following Frostburg State University programs are accessible to legal residents of the state specified at Maryland resident rates:

- B.A./B.S. in Recreation and Parks Management/Adventure Sports Concentration (Delaware, South Carolina, Virginia, West Virginia)
- B.A./B.S. in Theatre/Acting and Directing Tracks (Delaware)
- M.S. in Park and Recreation Resource Management (Delaware)
- M.S. in Wildlife/Fisheries Biology (Delaware, Kentucky)

Programs may be added to, or deleted from, the inventory at any time. Currently enrolled students continue to study at resident rates if a program is deleted during their academic careers.

For further information, contact your state's higher education agency, the Southern Regional Education Board (404/875-9211), the Maryland Higher Education Commission (410/2604585, toll free 800/974/0203) or the Assistant Provost and FSU Academic Common Market Coordinator (301/687-4212).

Senior Citizen Golden Identification Card

Senior citizens may qualify for a Golden Identification Card which allows you to register each semester for up to three courses for credit without paying tuition. You may enroll only during late registration and on a space-available basis. Although the late registration fee is waived for senior citizens, you must pay all other fees.

To qualify, you must be

- A resident of Maryland
- A US citizen or able to show a Resident Alien card
- Sixty years of age by the beginning of the term for which you are applying
- Employed no more than 25 hours a week.

If you qualify, contact the Admissions Office for a Golden ID Card application.

Expenses, financial aid and scholarships

Expenses

This information applies to the academic year 2007-2008 only. Please see appropriate Academic Schedule Booklets for 2008-2009 rates. Notwithstanding any other provision of this or any other University publication, the University reserves the right to make changes in tuition, fees, and other charges at any time such changes are deemed necessary by the University and the University System of Maryland Board of Regents.

Tuition

Tuition for legal residents of Maryland is \$2,500 per semester plus all other applicable fees at the University. Tuition for out-of-state students is \$7,306 per semester plus all other applicable fees at the University. Tuition for residents of the contiguous counties* is \$5,460 per semester plus all other applicable fees at the University.

Evening and part-time tuition is \$207 per credit hour for resident undergraduate students, \$411 per credit hour for non-resident undergraduate students, \$305 per credit hour for resident graduate students, and \$350 per credit hour for non-resident graduate students.

Summer tuition is \$207 per credit hour for resident undergraduate students, \$411 per credit hour for non-resident undergraduate students, \$305 per credit hour for resident graduate students and \$350 per credit hour for non-resident graduate students.

Students taking courses for audit or pass/fail or courses without credit designation will receive assigned equivalency credit hours for tuition and fee purposes.

Tuition and Fees for Collaborative Engineering Programs - Students enrolled in the electrical or mechanical engineering programs offered by FSU in collaboration with University of Maryland, College Park are subject to a different tuition and fee arrangement due to the unique nature of the program. During the freshman and sophomore years, students pay FSU tuition and fees. After completing 45 credits of designated course work, students will apply for formal acceptance into UMCP's Clark School of Engineering and will be considered UMCP students for the remainder of the program. Students will then pay

both UMCP tuition rates and FSU fees to the FSU University and Student Billing Office.

Room and Board

The cost for room and board for each University residence hall student varies from

\$5,994 per year to \$7,504 per year. Room contracts are binding for one academic year (fall and spring semesters). All students living in the residence halls are required to purchase a meal ticket for the University dining hall. See the chart below for detailed room and board options and prices.

Mandatory Fees

The following paragraphs explain how the University uses the mandatory fees which students pay. For information on other fees and expenses related to summer and graduate programs, refer to the respective catalogs and bulletins.

Activities Fee: An activities fee of \$65 per semester for full-time students or \$9 for part-time students is collected to support student publications, the campus radio station, social activities, student government and a balanced program of cultural events.

Athletic Fee: An athletic fee of \$251 per

Undergraduate Tuition & Fees 2007-2008

Tuition - full time (12 cr. or more)	1st Semester	2nd Semester	Total
Maryland Residents	\$2,500	\$2,500	\$5,000
Out-of-State Residents	7,306	7,306	14,612
Contiguous County Residents	5,460	5,460	10,920

Mandatory Fees

Technology Fee	\$72	\$72	\$144
Activities Fee	65	65	130
Athletic Fee	251	251	502
Auxiliary Facilities Fee	270	270	540
Student Union Operating Fee	107	107	214
Transportation Fee	10	10	20
Total Fees	\$775	\$775	\$1,550

Total Tuition and Fees

Maryland Residents	\$3,275	\$3,275	\$6,550
Out-of-State Residents	8,081	8,081	16,162
Contiguous County* Residents	6,235	6,235	12,470

Room Charges

Frederick, Westminster	double	\$1,710	\$1,710	\$3,420
All other halls	double	1,670	1,670	3,340
	small single	1,926	1,926	3,852
	large single	2,089	2,089	4,178

Board Charges

Gold Plan with \$200 bonus	\$1,703	\$1,703	\$3,406
Silver Plan 19 meals/week w/\$100 bonus	1,584	1,584	3,168
14-meal with \$100 bonus	1,521	1,521	3,042
12-meal with \$250 bonus	1,579	1,579	3,158
10-meal with \$75 bonus	1,327	1,327	2,654

Total tuition, fees, room and board**

Maryland Residents	\$6,688	\$6,688	\$13,376
Out-of-State Residents	11,494	11,494	22,988
Contiguous County* Residents	9,648	9,648	19,296

**based on \$3,420 room rate and \$3,406 board rate

subject to change

*Contiguous counties include Berkeley, Grant, Hampshire, Jefferson, Mineral and Morgan counties in West Virginia; Bedford, Fulton, Franklin and Somerset counties in Pennsylvania; and Loudoun County, Virginia.

semester for full-time students and a \$27 per credit hour fee for part-time students is used to support the University's program in intercollegiate and intramural athletics.

Auxiliary Facilities Fee: An auxiliary facilities fee of \$270 per semester for full-time students and \$24 per credit hour for part-time students is assessed for construction expenses of the auxiliary facilities.

Student Union Operating Fee: A Student Union operating fee of \$107 per semester for full-time students and \$12 per credit hour for part-time students is charged for operating expenses of the Lane Center.

Transportation Fee: A Transportation fee of \$10 per semester for full-time students and \$1 per credit hour for part-time students is charged, allowing students to ride Allegany Transit Authority buses by showing a student ID.

Other fees & expenses

See detailed explanation above.

Tuition Pay Plans	\$60-\$75
Application Fee, one time only	\$30
Career Services Credential Fee	\$20
Directed Practice Fee	\$100
Duplicate Copy	\$3
Late Registration Fee	\$30
Late Payment Fee	\$30
Lost ID Card	\$20
Private Music Fee	\$100 per credit
Returned Check Fee	\$30
Study Abroad Admins. Fee	\$350
Vehicle Registration - day	\$40 per year
- evening only	\$10 per year

Special Instruction Fees

Accounting (ACCT 305)	\$25
Art (ART 110)	\$10
Art (ART 207, 209, 212, 221, 232, 240, 412)	\$25
Art (202, 235, 236, 307, 407, 414, 435, 635)	\$30
Art (402, 421, 432, 440, 602, 621, 632, 640)	\$40
Art (ART 452)	\$60
Biology (BIOL 109, 149)	\$20
Business Admin. (BUAD 320)	\$25
Chemistry (CHEM 100, 101, 113)	\$20
Computer Science (COSC 100, 110, 220, 330)	\$25
Geography (GEOG 103, 113)	\$20
Mathematics (MATH 102, 104, 209)	\$20
Mathematics (DVMT 095, 100)	\$100
Orientation (ORIE 101)	\$90
Physical Science (PHSC 101, 203)	\$20
Physics (PHYS 215, 261)	\$20
Sociology (SOCI 310/SOWK 310)	\$25
Student Teaching Internship	\$350
Summer Orientation Program	\$125

Technology Fee: A Technology fee of \$72 per semester for full-time students and \$10 per credit hour for part-time students is assessed to fund technology initiatives for student enhancement.

Other Fees and Expenses

Late Payment Fee: A late payment fee of \$30 is charged for payments received after the established payment deadline.

Late Registration Fee: A late registration fee of \$30 is charged for not registering as prescribed or if payment is received after the due date.

Payment Plans are available through a partnership with Tuition Pay. An annual (10-month) plan is available for \$75.00. A 5-month semester plan is \$75.00 per semester. A 3-pay plan costs \$60 per semester.

Career Services Credential Fee: A \$20 fee allows the student to establish a credential file through the Office of Career Services. This is a one-time optional fee.

Duplicate Copies: A \$3 fee is charged for each duplicate statement of fees (or other receipt) requested. A \$20 fee is charged for each duplicate ID Card.

Returned Check Charge: A \$30 fee is charged whenever a check given in payment of any obligation is returned by the bank. Article 27, Section 142 of the Annotated Code of Maryland states that anyone who obtains money, etc., by bad check is subject to prosecution. All checks returned to the University by the bank as "unpaid" (this includes checks on which payment has been stopped or uncollected funds) must be paid within seven days of the University's notification to the student.

Motor Vehicle Registration: A \$40 motor vehicle registration fee is charged for students registering a vehicle. Vehicle registration for summer school and evening classes is \$10.

Study Abroad Administrative Fee: A non-refundable administrative fee that covers all study abroad administrative costs of \$150 (check with the CIE website for specific information on costs).

Special Course Work Fees

The following special fees for course work are non-refundable at the end of the free drop-add period:

Private Music Fee: Music students desiring private study of organ, piano, other instruments, or voice are charged \$100 per credit hour.

Special Instruction Fees: Fees of \$10, \$20, \$25 and \$100 respectively for students en-

rolled in GEP science laboratory courses and courses utilizing the Academic Computing facility are collected to cover laboratory supplies, equipment, software. Fees are also charged to cover art supplies in certain studio courses.

Student Teaching Internship Fee: A student teaching internship fee of \$350 will be charged for each quarter or semester at the beginning of the semester during which student teaching is scheduled.

Advance Fees and Deposits

Applicants pay a \$30 non-refundable application fee when they apply to the University. This fee is sent directly to University and Student Billing at the same time the application is mailed to the Admissions Office.

If you are accepted for admission, you will be asked to pay a non-refundable acceptance fee of \$150. Your letter of acceptance will contain a bill for this fee which must be paid within thirty days and which acts as a binding agreement for admission. This \$150 acceptance fee is non-refundable; but when you enroll as a student, it will be deducted from what you owe the University.

Residence Hall Damage Deposit

You will be charged a \$100 damage deposit each fall or your first spring semester. Money will be deducted from this deposit for the following:

- (1) damages to your room and room furnishings;
- (2) damages to common areas within your residence hall if these damages are unreported and/or unclaimed. These damages will be charged collectively to the residents.

If your deposit drops below \$25, you will be sent a bill to replenish your deposit to the \$100 level.

The balance of this damage deposit remains in your account until the end of the academic year or until you leave the residence halls for any reason. Because this refund is processed through the State Comptroller's Office, it will be refunded at the end of the semester in which you withdraw.

Payment of Fees

Make all checks or money orders payable to Frostburg State University for the exact amount on the bill you receive. All fees must be paid prior to the beginning of each semester or before the date shown on the statement of fees. Students will not be admitted to classes until all bills have been paid or they have made approved arrangements with the University and Student Billing Office and they may not register for the next semester. Failure to meet the due date may result in the cancellation of the student's schedule. A previous balance results in the grades and transcripts of the student being withheld until full payment is made.

Deferred Payment Plans

The TuitionPay Plan from Sallie Mae

TuitionPay is the interest-free, debt-free way to spread tuition payments over a number of months. The TuitionPay Plan is not a loan, so there are no interest payments, only a low annual enrollment fee.

The Plan allows you to break down your education expenses into easy-to-manage installments, rather than one lump-sum payment. It's simple and convenient.

How to Get Started

Just visit www.TuitionPayEnroll.com, click "Enroll Now" and in a few easy steps your enrollment will be complete. You can also complete and mail a paper application.

Fast, Easy Payment Options

TuitionPay is all about convenience. That's why we offer you the option to make your payments online* by eCheck or credit card, or by mail with your monthly statement.

Or if you prefer the worry-free simplicity of automatic deductions from your checking or savings account, you can sign up for recurring payments with our ACH plan.

Manage Your Account Online

Once you're enrolled, you can set up your own InfoLink account, which allows you to view your account information and status, and make payments any time — day or night.

There's no easier way to pay tuition than with the TuitionPay Plan. So enroll today!

For more information, visit www.TuitionPay.com, or call 1-800/635-0120 to speak with a TuitionPay consultant.

**No check processing fees when you pay online on or before the due date.*

Refund Schedules

Fall and Spring Semester

Before the end of each registration period	100% tuition refunded
Before the 15th calendar day after the official start of classes for that session	80% tuition refunded
From the 15th day until the end of third week after the official start of classes	60% tuition refunded
During the 4th week after the official start of classes	40% tuition refunded
During the 5th week after the official start of classes	20% tuition refunded
At the end of the 5th week after the official start of classes	0% tuition refunded

Fee Refund Schedule (including summer session)

Application fee	0% refund	
Board fee	- Up to mid-semester	prorated on a weekly basis plus one week
	- After mid-semester	0% refund

Summer Sessions

Before the end of the summer registration period	100% tuition refunded
Before the end of one-fifth of the length of the session, but in no case beyond the 7th calendar day of the session	80% tuition refunded
Before the end of two-fifths of the length of the session	40% tuition refunded
At the end of two fifths of the length of the session, but in all cases beginning with at least the 15th calendar day of the session	0% tuition refunded

*In the case of special courses of short duration (i.e., one week or less), this policy will be applied on a pro-rata basis in a manner consistent with the policy.

Non-refundable Fees

The following fees are non-refundable after the end of each registration period including the summer session:

Room rent fee	Auxiliary Facilities fee	Directed Practice fee
Activities fee	Private Music fee	University fee
Athletic fee	Student Union Operating fee	Vehicle Registration fee
Special Instruction Fee		

Charges for Collection of Unpaid Bills

If a student's account is not promptly paid, the University will turn it over to the Maryland State Central Collection Unit and a 17-percent collection fee will be added to the bill. If further collection action is needed, an outside agency will be retained and those charges will also be billed to the student. The state may also withhold any refund due to the student from the Maryland State Income Tax and apply it to the overdue account.

Refund Policy

The following regulations govern refunds available upon withdrawal from the University or when other changes of status take place. To withdraw from the University, you must complete an official withdrawal card and file it in the Registrar's Office before you are entitled to any refund. Because refund amounts change depending upon when you file, the date used to determine refunds will be the date on which you submit the final filing or change of status to the Registrar's Office.

If you register for a full schedule (12 credits or more) and you drop courses to 11 credits or fewer after the end of the registration period, you are not entitled to a refund based on a credit-hour charge.

Students dismissed for disciplinary reasons are not entitled to any tuition or fee refund.

Student Refund Policy for Title IV Recipients

Federal regulations mandate a student refund policy for Title IV recipients. The policy requires institutions to provide a pro-rata refund to any new student withdrawing before 60% of the enrollment period has elapsed. Information in regard to the calculation process or details of the policy may be obtained from the Financial Aid Office, Pullen Hall, 301/687-4301.

Personal Funds

If your balance reflects a credit of personal funds, you must write a request for a refund.

Financial Aid

Office of Financial Aid
114 Pullen Hall: 301/687-4301
FAX 301/687-7074

The University program of financial aid helps students who have limited financial resources. We make every effort to aid qualified students in need of financial assistance through loans, grants, scholarships, and part-time employment.

Our Financial Aid Office operates with an open-door policy. We provide financial aid information to students and their families and assist them with the application process.

Application Process

When applying for financial aid through the University, you must complete the Free Application for Federal Student Aid (FAFSA). This is the only application necessary for Federal and general State aid. The Free Application for Federal Student Aid includes detailed instructions and is available on-line at www.fafsa.ed.gov. In order for Frostburg State University to offer you financial aid, you will need to include FSU on your FAFSA using our school code (002072).

- You must reapply for financial aid each year.

Types Of Financial Aid

The major federal and state financial aid programs administered by Frostburg State University are described in the next two pages. For more detailed descriptions of the programs, see the Financial Aid and Scholarship brochure distributed by the Financial Aid Office for the year in which you want to receive the aid.

Federal Aid

Grants

- Grant money does not have to be repaid.

Federal Pell Grant Program - This program provides financial aid to all eligible undergraduates and is intended to be the base of a student's total financial aid package. Apply for the Federal Pell Grant by completing a Free Application for Federal Student Aid. The applicant will receive a Student Aid Report indicating eligibility after submitting the FAFSA.

Federal Supplemental Educational Opportunity Grant Program (SEOG) - Criteria established by the Federal Government states that you must be eligible for a Federal Pell Grant in order to receive Federal SEOG funds. You must submit the Free Application for Federal Student Aid to determine eligibility.

Work

Federal Work-Study Program - This federally-funded program provides recipients with a paid work experience as part of the financial aid package. Employment may not exceed 20 hours per week while classes are in session, and 40 hours per week during other periods. Most students work 5-8 hours per week in jobs that, in many cases, are related directly to their fields of study. Minimum wage laws apply. You must submit the Free Application for Federal Student Aid to apply.

In addition, the University offers students an opportunity to be employed in community service positions through this program.

Federal Loans

A word of caution at the outset: a loan is money borrowed and **MUST** be repaid at a specified time in the future, under the terms specified in the promissory note that is signed before you receive your first loan disbursement. Before signing the promissory note, be sure you thoroughly understand your rights and responsibilities relative to any loan received.

Federal Perkins Loan- Students enrolled at least half-time at FSU who demonstrate significant financial need by filing the Free Application for Federal Student Aid are eligible for a Perkins Loan. This program provides long-term loans at a 5% interest rate with repayment beginning nine months after graduating or leaving school for other reasons. The Financial Aid website gives detailed information regarding deferment and cancellation provisions. Borrowers should be aware that if default occurs and accounts are transferred to the Office of Education for collection purposes, grade transcripts from the Registrar's Office will be held until the debt is satisfied.



Federal Stafford Loans

NOTE: In order to borrow through any of the following Federal Family Education Loan Programs, you must be enrolled for at least 6 credits (and those credits must be leading toward a degree).

Federal Subsidized Stafford Loan

The Federal Subsidized Stafford Loan program enables you to borrow from a lending institution. The interest rate is variable with a ceiling of 8.25%*. Qualifying for a Federal Subsidized Stafford Loan means that the federal government will pay the interest on your loan while you are enrolled at least half-time. Six months after you terminate your education or cease to be enrolled half-time, repayment of your loan(s) begins. Repayment, in most cases, must be completed within 10 years.

Freshmen may borrow \$3,500 per year; sophomores, \$4,500; and for those who have attained junior class standing, \$5,500 per year. However, the amount you may borrow in any given year may not exceed the educational costs as certified by the Financial Aid Office. The aggregate amount one may borrow as an undergraduate cannot exceed \$23,000.

A graduate or professional student may borrow up to \$8,500 per year. The maximum outstanding debt for graduate or professional students, which includes any outstanding Federal Subsidized Stafford Loan borrowed for undergraduate study, is \$65,500 (excluding unsubsidized loans).

To apply for a Federal Subsidized Stafford Loan, you must complete a Free Application for Federal Student Aid and other forms as required. As with the Perkins Loan, the amount of your loan is based on several fac-

*rate subject to change

Educational Expenses

	In-State Resident	Contiguous County Resident**	Out-Of-State Resident
*Tuition	\$5,000	\$10,920	\$14,612
*Fees	1,550	1,550	1,550
*Room and Board	7,200	7,200	7,200
Books	1,200	1,200	1,200
Transportation	500	500	700
Personal	1,000	1,000	1,000

*Amounts subject to change

The above figures are based on a 9-month academic year. Expenses for tuition, fees, room and board are subject to change. Books, transportation, and personal expenses are estimates only and students should calculate these items based on their own circumstances. Commuter bills will only reflect charges for tuition and fees.

** Out-of-state discount for full-time students from the following counties in PA: Bedford, Franklin, Fulton and Somerset; in VA: Loudoun; and in WV: Berkeley, Grant, Hampshire, Jefferson, Mineral and Morgan

tors: amount of documented need, enrollment status and academic progress.

All first-time Federal Subsidized Stafford Loan borrowers must complete an entrance interview. In addition, all Federal Subsidized Stafford Loan borrowers must complete an exit interview before graduation, withdrawal or leaving FSU, even though they may plan to return at some time in the future.

Repaying your student loan is an obligation. Failure to repay your student loan(s) on the required repayment schedule will result in default. One of the many consequences of being in default is that FSU has the right to, and will, withhold the processing of all academic transcripts.

Federal Unsubsidized Stafford Loans

Same terms and conditions apply as Federal Subsidized Stafford Loans, except that the borrower is responsible for interest that accrues while he/she is in school. This loan program is open to students who may not qualify for Federal Subsidized Stafford Loans or may qualify for only partial Subsidized Stafford Loans. To apply for a Federal Unsubsidized Stafford Loan, you must first complete the Free Application for Federal Student Aid (FAFSA) and other forms as required.

The borrowing limits for dependent students are the same as for borrowers in the Federal Subsidized Stafford Loan program. For independent students, additional borrowing levels exist.

Note: Eligibility for borrowing through both Subsidized and Unsubsidized loan programs during the summer is limited. If eligible to apply, an applicant must be enrolled for at least six credits per session

and the credits taken must be leading toward a degree. Check with the Financial Aid Office regarding loan availability during summer sessions.

Note: The Department of Education requires that student loan borrowers be provided with information on the availability of the Department's Office of the Ombudsman for student loans. This office provides information to students who have had problems resolving issues related to a student loan. FSU recommends that borrowers try contacting the Student Financial Assistance Ombudsman if this occurs. The U.S. Department of Education's Ombudsman Office can propose solutions that may help you and other parties (such as lenders, guaranty agencies, etc.) come

to a final agreement. For additional information, contact this office at 202/401-4498 or toll-free at 1-877/557-2575. Their web site is <http://ombudsman.ed.gov>

Federal Plus Loans

(Parent Loan for Undergraduate Students)

The Federal Plus Loan is a federal loan program that allows parents of dependent, undergraduate students to borrow an amount equal to the cost of education, minus other aid.

Special Note

Federal regulations require your written permission to deduct miscellaneous institutional charges such as library fees from your annual financial aid. You must sign and complete a permission form. If at all possible, you should submit this permission form prior to billing. If you choose not to complete the permission form, you will be responsible for paying any miscellaneous obligation(s) from personal funds by the bill payment date. The University **may not apply** your loan funds to any charge(s) assessed to you in a prior award year.

- FSU reserves the right to withhold academic transcripts from students who have defaulted on their student loans.



State Aid

Maryland State Scholarships

The State of Maryland provides funding for the following **major** state scholarships:

- Educational Assistance Grant
- Guaranteed Access Grant
- Senatorial Scholarship
- Delegate Scholarship

Applicants for these awards must:

- (1) Be a Maryland resident
- (2) Most require that you file a Free Application for Federal Student Aid by March 1.

For requirements and applications specific to a particular scholarship, contact the FSU Financial Aid Office or the Maryland Higher Education Commission (410/260-4565).



FSU Grants

Criteria:

- You must be a U.S. citizen.
- You must demonstrate financial need through the federal application process.
- You must file the FAFSA as soon after January 1 as possible. The Financial Aid Office must receive the results by March 1.

Students must meet academic standards to be considered for this award.

State Student Work

This program provides a limited number of jobs on campus for students who are not eligible for the Federal Work-Study Program. These positions are available in every academic, administrative and auxiliary area. Jobs are processed through the Financial Aid Office. Interested students should contact the Financial Aid Office during the first two weeks of classes.

Financial Aid for Collaborative Engineering Programs

Students enrolled in the electrical or mechanical engineering programs offered by FSU in collaboration with University of Maryland, College Park are subject to a different financial aid arrangement due to the unique nature of the program. During the freshman and sophomore years, students are eligible to apply for financial aid through FSU. After completing 45 credits of designated course work, students formally apply for admission into UMCP's Clark School of Engineering and are considered UMCP students at that time. At that point, a student must reapply for fed-

eral or state aid through UMCP's Office of Student Financial Aid. For assistance in the application process, contact FSU's Engineering Program Coordinator, Dr. Oguz Soysal, at 301/687-7079.

Refund\Repayment Policy

See Title IV Refund Policy in the Fees section of this chapter.

Law Governing Financial Aid and Withdrawal

The Higher Education Act of 1998 established new rules regarding how colleges and universities determine the amount of financial aid that a student can retain if he/she withdraws. The new law was implemented at Frostburg State University in Fall 2000. The following information describes how this law will be applied using a specific formula that the government has defined.

Implications of Withdrawal from the University

Effective Fall 2000, all students who withdraw or are dismissed from the university (including unofficial withdrawals) and attend less than 60% of the enrollment period (semester), will have their Title IV federal financial aid prorated based on the actual days of attendance. Therefore, before a student considers withdrawal, he/she should meet with a financial aid counselor to determine the financial impact on his/her federal financial aid. Title IV Federal aid includes Pell Grant, Supplemental Educational Opportunity Grant (SEOG), Perkins Loan, Stafford Loans (Subsi-

dized and Unsubsidized), and Parent Loan to Undergraduate Students (PLUS).

Under this policy, the Financial Aid Office will determine the percentage of Title IV aid earned based on the length of enrollment. Once determined, the student may be responsible for charges that were once covered by Title IV aid. In some cases, a student may have to repay a portion or all of his/her refund as a result of withdrawing before 60% of the enrollment period elapses. After the unearned portion of financial aid has been established, the funds will be returned to the federal programs in the following order: Unsubsidized Stafford Loans, Subsidized Stafford Loans, Federal Perkins Loans, Federal PLUS Loans, Federal Pell Grants, and Federal Supplemental Educational Opportunity Grants. In cases where a student is receiving institutional funds, he/she should check with the Financial Aid Office for policies concerning these awards.

Satisfactory Progress Standards

The United States Department of Education has mandated that colleges and universities have in place satisfactory progress standards that must be met in order for a student to receive Title IV funds (Federal Pell Grants, Federal Subsidized and Unsubsidized Loans, Federal PLUS Loans, Federal Supplemental Educational Opportunity Grants, Federal Work-Study, and Federal Perkins Loans). The standards listed below apply to the regular academic year. In addition, the Financial Aid Office uses these standards to determine your eligibility for FSU grants, as well as Maryland State Scholarship awards.

Academic Progress Standards

In addition to the minimum G.P.A. requirements described below, the Financial Aid Office will implement a new policy regarding the completion rate of credits attempted (effective 5/26/01). The policy states, "A student must have successfully completed 67% of his/her cumulative attempted credits at FSU (including attempted hours for summer session and Intersession enrollments) in order to maintain financial aid eligibility for the ensuing academic year." Minimum G.P.A. requirements will also be determined by using the chart below.

Exceptions

All first-time students who earn an FSU G.P.A. under 1.0 will be placed on conditional probation, which will allow a student to maintain financial aid eligibility.

Students with cumulative G.P.A.s of 1.0 but less than 2.0, will be allowed to enroll for one semester on financial aid probation even though they do not meet the minimum standards listed in the table below. At the end of this probationary semester, students must attain the minimum G.P.A. for their total number of earned hours or they will be ineligible to receive financial aid.

Transfer credits will not affect the calculation of the student's G.P.A., but will be considered in determining the student's total earned hours. For example, a transfer student who has completed 30 credits at Frostburg State University and 20 credits elsewhere, must have a cumulative G.P.A. of 1.8 in courses taken at Frostburg State University to remain eligible for financial aid.

Total Hours Earned*	Minimum FSU Cumulative G.P.A.**
0-14	1.00
15-29	1.40
30-44	1.60
45-59	1.80
60-above	2.00

*Total hours earned = all earned hours, graded and ungraded, including transfer credits.

**Cumulative FSU G.P.A. = all letter grades (A,B,C,D,F,FX,WF) earned in all courses attempted at Frostburg State University, excluding prior grades in courses repeated at FSU and grade forgiveness. Enrollment at schools other than FSU cannot improve the G.P.A. because credits, not grades, transfer from these institutions. (See special note for consortium participants.)

Additional Information

To receive financial aid, in addition to maintaining satisfactory academic progress as outlined in this policy, you must be eligible to enroll at the University. Suspension or dismissal from the University will result in an automatic cancellation of financial aid.

Notes

1. The following grade symbols will be considered as credits passed:

A, B, C, D, P

In addition, to those grades listed as credits passed, the following grades will be calculated in hours attempted:

W, WF, CS, NC, F, FX, N, I

2. Credit hours in which you have received an incomplete (I) will not be considered as credits completed.
3. Courses that you repeat will be included in hours attempted.
4. If you have been ineligible for financial aid during a previous semester and now meet our academic standards, it is your responsibility to notify the Financial Aid Office.
5. Undergraduate students may not attempt more than 160 credit hours and remain eligible for Financial Aid.
6. If you are dismissed or leave the institution for any length of time, you will need to meet all of the above listed satisfactory progress standards in order to receive financial aid.

Appeal Process

All students have the right to appeal when they are notified that they are ineligible to receive financial aid because they are not making satisfactory academic progress. The appeals should be based on mitigating circumstances, such as serious physical or emotional problems. All appeals must be written and clearly state your special circumstances. You must provide supporting documentation. For example, a letter from a physician is required in the case of a physical problem. The appeals should also state the specific means by which you intend to attain satisfactory academic progress.

Students who fail to meet the satisfactory progress standards based on their cumulative Frostburg State University G.P.A. will be notified by the Office of the Provost. Students wishing to appeal must submit their appeals to the Office of the Provost. Such appeals are reviewed by the Academic Standards Subcommittee.

Students who fail to meet the satisfactory progress standards based on the number of credit hours completed or exceeding the maximum period of eligibility, or who are consortium participants, will be notified by the Financial Aid Office. Students wishing to appeal must submit their appeals to the Financial Aid Office. Such appeals are reviewed by the Financial Aid Appeals Committee.

Deadlines for appeals are stated in the letters notifying students of their ineligibility. Letters of appeal received after the deadline will not be considered. The University makes every effort to notify you by first-class mail to your permanent address at the end of the semester if you fail to meet the academic standards and informs you of the deadline date for appeals; however, it is your responsibility to recognize your ineligibility and actively pursue appeal procedures where mitigating circumstances exist. The deadline for appeals is normally within two weeks of the semester's ending date.

Note to consortium participants:

Students participating in consortium agreements are required to provide a transcript of grades from the "host institution" at the end of each consortium semester. It is the responsibility of the student to have the transcript submitted to the Financial Aid Office. Failure to provide the transcript will result in the suspension of aid for any subsequent semester. In addition, it should be understood that grades received from the host institution will be included in determining whether a student meets our defined satisfactory progress standards.

Scholarships

Frostburg State University is firmly committed to academic excellence and we strive to recognize outstanding students. A number of institutional scholarships have been established through the auspices of the Frostburg State University Foundation to reward academic achievement, as well as service in the community. Funds for these scholarships are provided by private and institutional sources.

In addition, nearly every academic department at FSU offers departmental scholarships. The eligibility criteria for these scholarships vary. Many are based on academic performance, others on need, still others on the program of study or a combination of requirements. Scholarships are awarded on an annual basis. Students must meet satisfactory progress standards and scholarship selection requirements each semester as defined in the scholarship brochure or in the information provided with your award notification.

The Financial Aid Office publishes a **Financial Aid and Scholarships** booklet that describes all of these scholarships and lists the criteria to be considered, as well as the contact person and deadline date for each award. Contact the Financial Aid Office at 301/687-4301 for a copy of this booklet.

In addition, Frostburg State University offers academic scholarships which are screened by our Admissions Office. These scholarships are for entering first-year and transfer students who demonstrate outstanding academic ability. A description of these scholarships follows.

University-wide Scholarships

These scholarships are awarded to entering freshman and transfer students. Admission applications are automatically screened by the Admissions Office to select recipients for these awards. Leadership Awards and Talent in the Arts Scholarships require additional materials from the applicant. Meeting minimum requirements does not guarantee selection.

Academic Scholarships for Entering Freshmen:

- **Presidential**
- **University**
- **Academic Distinction**
- **Academic Honor**

Criteria: Minimum high school GPA of 3.2 or higher AND minimum combined SAT of (CR+M+WR) 1600. Enrolled full-time. Award varies from \$1,000 to \$5,000 per academic year to be applied toward total cost of education for up to eight semesters provided the student maintains a minimum cumulative GPA of 3.0 and completes at least 24 credits per academic year. The degree of student's academic excellence will determine the initial amount of the award. Students with financial need may be eligible for additional funds; therefore, all applicants are encouraged to file the FAFSA form.

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Deadline: Priority given to students completing application for admission by February 1.

Recipients of the award must accept offer of admission by May 1.

Award varies from \$1,000 to \$5,000 per academic year to be applied toward total cost of education for up to eight semesters provided the student maintains a minimum cumulative GPA of 3.0 and completes at least 24 credits per academic year. The degree of student's academic excellence will determine the initial amount of the award. Students with financial need may be eligible for additional funds; therefore, all applicants are encouraged to file the FAFSA form.

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Deadline: Priority given to students completing application for admission by February 1. Recipients of the award must accept offer of admission by May 1.

Academic Excellence Scholarship for Transfer Students

Criteria: Minimum of 30 transferable credits at time of application AND 3.8 cumulative GPA. Enrolled full time. Award varies from \$1,000 to \$2,000 per academic year to be applied toward total cost of education for up to six semesters provided the student maintains a minimum cumulative GPA of 3.0 and completes at least 24 credits per academic year. The degree of student's academic excellence will determine the initial amount of the award. Students with financial need may be eligible for additional funds; therefore, all applicants are encouraged to file the FAFSA form.

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Deadline: Priority given to students completing application for admission by February 1. Recipients of the award must accept offer of admission by May 1.

Academic Excellence Leadership Award

Criteria: Demonstrated leadership qualities. **Student must provide the Office of Admissions with a summary of leadership activities and a minimum of three letters of recommendation documenting the applicant's leadership roles or activities.** Award varies from \$1,000 to \$3,000 per academic year to be applied toward total cost of education for up to eight semesters for freshmen and up to six semesters for transfers provided the student maintains a minimum cumulative GPA of 3.0 and completes at least 24 credits per academic year.

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Deadline: Priority given to students completing application for admission by February 1. Recipients of the award must accept offer of admission by May 1.

Academic Excellence Talent in the Arts Scholarship

Criteria: Demonstrated ability in theatre, dance, music or visual arts. Student must provide appropriate materials - audition, portfolio and/or interview - to the sponsoring department — theatre, dance, music or visual arts. Award varies from \$1,000 to \$3,000 per academic year to be applied toward total cost of education for up to eight semesters for freshmen and up to six semesters for transfers provided the student maintains a minimum cumulative GPA of 3.0 and completes at least 24 credits per academic year.

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Deadline: Priority given to students completing application for admission by February 1. Recipients of the award must accept offer of admission by May 1.

Annual Fund Award for Excellence Unit Award Amount: \$1,000

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Criteria: The recipient must be an entering freshman with a combined SAT score of 1,100 or above. Funding for this award is the result of annual contributions to the FSUF Annual Fund Campaign by alumni and friends of FSU. This award is non-renewable.

Deadline: March 1

N. Rose Atwood Scholarship

Unit Award Amount \$500

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Criteria: The recipient must be an entering freshman who is a Maryland resident and a full-time student with a minimum 3.5 high school grade point average and SAT of at least 1,100. This award is non-renewable.

Deadline: March 1

Emma and Paul Dailey Scholarship

Unit Award Amount: \$1,000

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Criteria: The recipient must be an entering freshman, enrolled full-time, with a combined SAT score of 1,100 or above or a high school academic grade point average of 3.5 or above. Preference will be given to residents of Frostburg first, then Allegany County and then all of Maryland. This award is non-renewable.

Deadline: March 1

Donald Donahue Tri-State Scholarship

Unit Award Amount: \$500

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Criteria: The recipient must be an entering freshman, enrolled full-time, with a combined SAT score of 1,100 and a high school grade point average of 3.5 or above, and be a resident of the immediate tri-state area with a preference given to residents of West Virginia or Pennsylvania.

Deadline: March 1

Lewis J. Ort Access to Education Award

Unit Award Amount: \$1,000

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Criteria: The recipient must be a first-time (freshman, transfer) FSU student enrolled or accepted for enrollment with demonstrated financial need and demonstrated academic ability; must be a resident of a "contiguous county" (Bedford, Fulton, Franklin and Somerset in Pennsylvania; Berkeley, Grant, Hampshire, Jefferson, Mineral and Morgan in West Virginia; and Loudoun in Virginia).

Deadline: March 1

Lewis J. Ort Regional Science Award

Unit Award Amount: \$1,000

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Criteria: The recipient must have a demonstrated ability in science and be a resident of Allegany, Garrett or Washington counties in Maryland or bordering counties in Pennsylvania or West Virginia.

Deadline: March 1

Outstanding Allegany/Garrett Freshman Award

Award: Includes room and board waiver and \$1,000 Senatorial Award

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Criteria: Freshman award for a full-time student from an Allegany County and a Garrett County high school; minimum high school GPA of 3.0 and minimum combined SAT of 1,200.

Deadline: Offered on basis of review with a priority given to students completing application for admission by February 1st. Recipients of the award must accept offer of admission by May 1st.

F. Perry Smith, Jr. Scholarship

Unit Award Amount: \$1,500

Contact: FSU Admissions Office/Patricia Gregory, 301/687-4201

Criteria: The recipient must have completed a high school education or equivalency in either Allegany or Garrett counties of Maryland and be enrolled at FSU with an overall grade point average of 3.0 or better, or be accepted with a transferable overall grade point average of 3.0 or better. The recipient must demonstrate financial need. The scholarship may be received for up to four consecutive years if an overall grade point average of 3.0 or better is maintained.

Deadline: March 1

Scholarships for Collaborative Engineering Program

Students enrolled in the electrical or mechanical engineering programs offered by FSU in collaboration with University of Maryland, College Park are eligible to apply for scholarships through FSU during the freshman and sophomore years. After completing 45 credits of designated course work, students formally apply for admission into UMCP's Clark School of Engineering and are considered UMCP students at that time. A student must then apply for scholarships through UMCP. Students will not be eligible for any type of FSU scholarships after being accepted into the UMCP program.

UMCP scholarship opportunities are available through the Clark School of Engineering, the Departments of Mechanical and Electrical Engineering, as well as the Office of Student Financial Aid. For assistance in the application process, contact Dr. Oguz Soysal at 301/687-7079.

IMPORTANT: The criteria and dollar amounts listed are subject to change. In addition, please keep in mind that meeting minimum criteria for any scholarship listed does not guarantee selection.



Campus Life & Activities

Residence Life

The mission of Residence Life is to create a comprehensive living-learning environment that complements the academic mission of the University. We seek to provide students with a safe, civil, and healthy living experience, and we nurture an inclusive community which balances self-expression with the rights of others. You will have the opportunity to live with others of differing backgrounds, ideas and values and to participate in a wide range of activities. Residence hall handbooks and *The Pathfinder* provide detailed information about living on campus. Information and handbooks are available by contacting 301/687-4121.

Housing

Eleven residence halls give students a range of options: coed or same-sex housing, a leadership development hall, international and honor student housing, smoke-free and substance-free halls. Housing is made available without regard to race, color, religion, disability, or country of national origin.

- You must apply for housing on a separate housing request form before you will be assigned a room. Housing is assigned to new students on the basis of the date they pay their advanced fee deposit and the date their Housing Request form is received by the Residence Life Office.

Residential Options

Each year, Residence Life offers a number of special interest housing options from which to choose. These options bring together students with common interests or goals, and serve to enhance students' adjustment to college life. Listed below are some of the options presently available:

HallSTARS! Volunteer Hall:

HallSTARS! is a coed living-learning-serving program for first-year students living in Cumberland Hall. This Learning Community is designed to integrate service activities with first-year curriculum courses. Residents completing a prescribed number of hours of service per week will be eligible for an educational award. A separate application is required for admission to this program.

G.O.L.D.: Generating Opportunities for Leadership Development:

Located in Cumberland Hall, G.O.L.D. is an enriching coed leadership program for first-year students. G.O.L.D. provides participating residents with a supportive and challenging community for the development of leadership skills during their first year. The program emphasizes learning and applying

leadership skills to academics, co-curricular activities, and career environments; past graduates represent a large proportion of the presidents and executive officers of student organizations at FSU. A separate application is required for admission to this program.

First Year Experience Program:

Residence Life Staff in four of the traditional residence halls in our Uphill area offer special support and activities for new students in making the transition from high school to college life. Students have the option of attending frequent in-hall programs which offer information and resources on topics of critical importance to college students. FYE participants benefit from lower staff-student ratios and a heightened sense of community with other new students.

Substance-Free Floor:

The third floor of Cumberland Hall houses new and returning students who want to make a conscious choice to live substance-free with other like-minded students. While the University alcohol policy applies in all of our residence halls, residents of this floor sign an agreement not to use alcohol or other drugs in their community, nor to return to their community after having consumed alcohol or other drugs.

Residence Hall Contract

Students living in the residence halls are required to sign a residence hall housing contract. The housing contract applies to the entire academic year. See the Expenses, Financial Aid and Scholarships chapter of this catalog for housing costs.

Meal Plans

If you live in the residence halls, you must purchase a resident's meal plan. Off-campus students may also purchase plans. Meal plans may change each semester and the deadline for selecting plans will be announced before the semester begins.

- Once you select a meal plan, that plan will continue unless you notify the University and Student Billing Office by the deadline. If you do not select a plan, the University and Student Billing Office will automatically assign you a meal option. See the Expenses, Financial Aid and Scholarships chapter for meal plan costs.

Residence Hall Association

Every student living in a residence hall becomes part of a hall council which elects an executive board and floor representatives to the Residence Hall Association. The student representatives develop a budget for spending the hall activity fees, recommend activities and programs, and act as representatives at leadership conferences. For more information, contact either the RHA Office (301/687-7389) or the Residence Life Office (301/687-4121).

Automobile Policy

All currently enrolled students can operate and park their vehicles on campus. On-campus students must register their car at the University and Student Billing Office but there is no fee. Students who do not live on campus must pay a fee when they register their cars in the University and Student Billing Office.



Westminster Residence Hall

Student Services

Student Services can assist you in achieving your intellectual, social, cultural, career, physical and spiritual goals. We offer counseling, testing, student employment, learning assistance, placement, health services, student activities and many other programs.

Information and regulations pertaining to student life are found in *The Pathfinder*, the Residence Hall handbooks, and other bulletins issued by the University. Contact Student and Educational Services (301/687-4311) for more information about these services.

The Advising Center

The Advising Center serves as a resource hub for undeclared freshmen and sophomores, transfer students, and students seeking a new major. The Center works with you to help you identify strengths, select an appropriate major, and implement strategies that can lead to engagement and success. Familiarity with all FSU majors, and combinations of majors and minors, allows Center staff the ability to suggest academic options you may not have considered and refer you to appropriate faculty for more detailed information. The Center also helps you identify campus groups and organizations whose members share your interests and career goals.

The goals of the Advising Center are to prevent small problems from becoming insurmountable, help you become engaged on campus, and provide a center where you can address change and deal with obstacles. The office is located in 126 Hitchens. You can stop by the office or call 301/687-3132 to set up an appointment.

Disability Support Services

The DSS mission is to facilitate equal academic opportunity and enhance functional learning for students with any type of disability. Services include notetakers, taped textbooks and reader services, testing accommodations, and advocacy. Students must present documentation of their disability in order to qualify for services.

(301/687-4483; TTD 301/687-7955)

Diversity Center

The Diversity Center offers activities, workshops and programs to help **all students** develop an understanding of cultural differences as well as the skills needed to work effectively with individuals from various cultural/ethnic groups. Additionally, the center staff members serve as allies and advocates for minority students and organizations as they learn to negotiate the University environment. Mentoring, academic monitoring and social adjustment monitoring are also available for students through this center.

(301/687-4050)

Learning Assistance Programs

Learning assistance services are available for all students and can help you develop the basic academic and study skills you need to master college courses. Programs for Academic Support and Studies (PASS) provides:

- basic skills assessment in mathematics, English and reading for all freshmen;
- individual tutoring in entry level courses;
- group tutoring for most science courses;
- study skills assessment and instruction;
- assistance for writing in the Writing Center by appointment and walk-ins as available;
- access to computers in the Writing Center;
- supplemental instruction for developmental reading/writing students;
- and developmental mathematics instruction.

(301/687-4441)

Student Support Services

Student Support Services (SSS) is an academic support program entirely funded by the U.S. Department of Education with an annual budget of \$316,935 to serve 275 eligible Frostburg State University enrolled students. Eligible students must meet one of the following criteria: first generation college, low-income or documented physical or learning disability. The program's purpose is to help students stay in college until they graduate and to foster an institutional environment supportive of them. Through cooperation and collaborative planning efforts with FSU departments, faculty, and staff, the SSS program provides a comprehensive program of personal and academic services. Some project services include:

- academic advisement, advocacy and monitoring
- personal counseling
- student financial aid assistance
- professional tutoring
- academic success workshops
- educational and cultural event tickets



- assistance in developing educational goals
- career exploration and guidance

(301/687-4481; FAX 301/687-4671)

Regional Math/Science Center

The RMSC serves traditionally under-represented high school students from the four westernmost counties in Maryland as well as Baltimore City. The program is designed to help these students develop the skills necessary for entering and succeeding in post-secondary education — specifically in the areas of math and science. Students attend a six-week residential program at FSU as well as an academic year component which includes tutoring and follow-up activities. For information and an application, contact 301/687-4295 or call toll-free at 1-800/646-6004 or visit our web site at www.frostburg.edu/clife/mscenter.

Upward Bound

Upward Bound provides academic and personal development programs for 77 educationally and/or economically disadvantaged high school students in Allegany County. Eligible students attend academic and enrichment programs on the University campus both during the school year and during a six-week residential summer program.

(301/687-4994)

Veterans Affairs

This office assists anyone eligible for Veterans Administration educational benefits. If you are a new or re-entering student who is or may be eligible for these benefits, please contact Veteran Affairs well in advance of the semester you plan to register and when you anticipate any change in academic status.

(301/687-4409)

Student Development Services

Our Student Development staff offers a variety of workshops, programs, and services for students which enhance both their personal development and the teaching/learning environment of the University. The Dean of Student Development (301/687-4311) can provide you with general information about regularly scheduled programs and individual services. The Office of Student Development also provides information on Parents Orientation, non-traditional students and off-campus housing for commuting students.

Health Services

- **Required Medical Form:** When you are accepted at the University, you will receive a medical form to be completed and returned to the Brady Health Center. A complete physical examination by your physician is strongly recommended.

- **Required Immunization Form:** The University requires all students to be immunized for rubeola, rubella, diphtheria, tetanus and mumps and to have documentation of these immunizations on file in the Brady Health Center prior to registration. Tuberculosis risk assessment is also required. If you were born before 1957, you are exempt from documentation for mumps, rubeola and rubella.

Effective June 1, 2000, the Maryland General Assembly passed a law requiring students enrolled in institutions or higher education in Maryland, who reside in on-campus housing, be vaccinated against meningococcal disease or, if they choose not to be vaccinated, they must sign a waiver indicating this decision.

- **Health Insurance and Fees:** Currently, there is a \$10 user fee for visits to the health center; there are also some miscellaneous charges for diagnostic tests, immunizations, treatments and prescription medications. Payment may be made at the center by cash, check or Bobcat Express card. Health insurance is strongly recommended. If you do not have health insurance, the University offers an affordable Student Health Plan through Sentry Insurance. For information, contact the Brady Health Center at 301/687-4310.

- **Services:** The Health Center is accredited by the AAAHC (Accreditation Association for Ambulatory Health Care). The services of the Health Center are available to all currently enrolled students. The health services program emphasizes prevention of health problems and offers limited direct health services combined with referrals to community health agencies, hospitals and specialists. You can find a list of the services offered by the Health

Center in the Brady Health Booklet, *The Pathfinder* (student handbook) and on-line at www.frostburg.edu. Also, a copy of required forms can be downloaded from the above web site.

Counseling and Psychological Services

The Counseling Service (301/687-4234) offers a variety of counseling and developmental services to students and the University community. The services are accredited by the International Association of Counseling Services and provided by experienced counselors, psychologists and supervised graduate practicum students. There are no fees charged to FSU students.

- **Individual Counseling:** Personal counseling is available to students who may wish to improve their personal or academic effectiveness, or who may be experiencing personal (relationships, anxiety, adjustment, depression, self-concept, etc.), social, career or academic concerns. Counseling sessions are private and confidential and do not become part of the student's academic record. Psychiatric consultation and evaluation is available through the Counseling or Health Services Offices.

- **Group Counseling and Personal Development:** Counseling groups and developmental programs are available on topics such as career development, stress management, eating concerns, substance abuse and relationships.

- **Consultation and Training:** The Counseling Center staff consults with individuals, student organizations and other groups on helping skills, goal-setting, empathetic listening, team building, crisis prevention and other topics. The staff also offers a variety of training programs for University employees.

- **University Testing Program:** The Counseling Service provides information, applications, and coordinates the administration of a number of tests students need for admission to graduate school or to fulfill professional standards required by states or other agencies. These tests in-

clude the Graduate Record Exam, PRAXIS, Law School Admission Test, Medical College Admissions Test, Miller Analogies Test and others.

- **Alcohol/Drug Education Program:** The Counseling Service sponsors an alcohol/drug education resource center (S.A.F.E. Communities Office, 301/687-4761) that contains educational material on alcohol and other drugs.

Career Development

The University encourages you to explore career options and to use the career development opportunities on campus from the beginning of your undergraduate education. Two offices help students explore occupations, find a graduate school, enter into professional careers, and develop job search skills: Career Services and the Career Resource Center.

Career Resource Center

The Career Resource Center (Sand Spring 129) contains the following information to help you explore occupations, plan a career or search for a graduate school:

- DISCOVER, a computerized self-exploration and career information system
- Materials on careers and graduate study for minorities and women.

Career Services

The Career Services Office (301/687-4403) can assist you in planning a career and preparing for life after graduation. The services range from helping you identify a major which matches your ability and interests to connecting you with future employers. Here is a sampling of our programs and services:

- Career exploration through research, interviews, summer jobs, internships, and networking with alumni on Career Day
- Workshops to improve job search skills like resume-writing and interviewing
- Senior Career Orientations that teach seniors competitive skills for the job market.
- Credential File Services
- Job fairs and on-campus interview opportunities with major employers.
- World wide web resources for internships/jobs.

Campus Activities

The Lane University Center—the FSU “Student Union” located in the center of campus—serves as the hub of student activities. Student organization offices, the University Bookstore, a bank, an information center, a lounge, game rooms, ticket office, a restaurant, and meeting rooms are all located here. The campus community uses the Lane University Center for gathering with friends as well as for attending banquets, concerts, dances, performances, conferences and many other events.

Campus activities at the University are largely administered by students with support from the Lane University Center and Office of Student and Community Involvement (301/687-4151). This office can provide you with complete information on all student organizations and activities and on special campus events.

Student Government Association

All students are represented by the two branches of the Student Government Association: the Executive Council and the Senate. The SGA develops and administers student self-government policies, provides many services to students, communicates with faculty and administration and decides how the student activity fees will be spent. Students from all undergraduate classes are encouraged to run for office in SGA and participate in shaping the future of the University. The Student Government Association Office (301/687-4304) can help you to get involved.

University Programming Council

The University Programming Council (UPC) is a student directed organization that provides a wide range of programs and activities for students and the campus community. UPC's annual activities include:

- Welcome Week, Family Weekend, First Night and Last Night Frostburg each semester and Spring Fest;
- Concerts, dances, comedy shows and other special events;
- Feature film series, the Live at the Loft! music series, lectures and more.

UPC is always looking for new student leaders to help plan and implement programs. For more information about the University Programming Council and how to get involved, please contact Tammi Wiley, Director of Student Activities at 301/687-4151 or contact UPC directly at 301/687-4192 or by email at upc@frostburg.edu.

Cultural Events

Each year the University sponsors many cultural events in the fine and performing arts. The Cultural Events Series (301/687-3137) presents 12-16 professional performances throughout the year. Past guests have included Jack Klugman, Herbie Hancock, Preservation Hall Jazz Band, Doobie Brothers,

The Goo Goo Dolls, as well as Broadway musicals like *Seven Brides for Seven Brothers*, *Urban Cowboy*, *Hello Dolly* and *Gentlemen Prefer Blondes*. FSU students receive discount ticket pricing for all CES performances. Opportunities also exist for students to work with CES to assist in the production of the events, as well as workshops and educational outreach opportunities.

University departments present major theatre productions, numerous music performances, poetry readings, lectures, art shows and other events featuring both students and visiting artists.

Volunteerism and National Service

University students provide over 40,000 hours of service each year. Volunteer work is coordinated through the Center for Volunteerism and National Service which sponsors numerous projects.

- READ TO SUCCEED! Program

- VOICE Program (Volunteer Opportunities in the Community Environment)
- HallSTARS! Volunteer Program
- Winter and spring Alternative Break trips
- Student Center for Volunteerism
- The Institute for Service-Learning

If you want more information about volunteer opportunities, call 301/687-4210.

Black Student Alliance

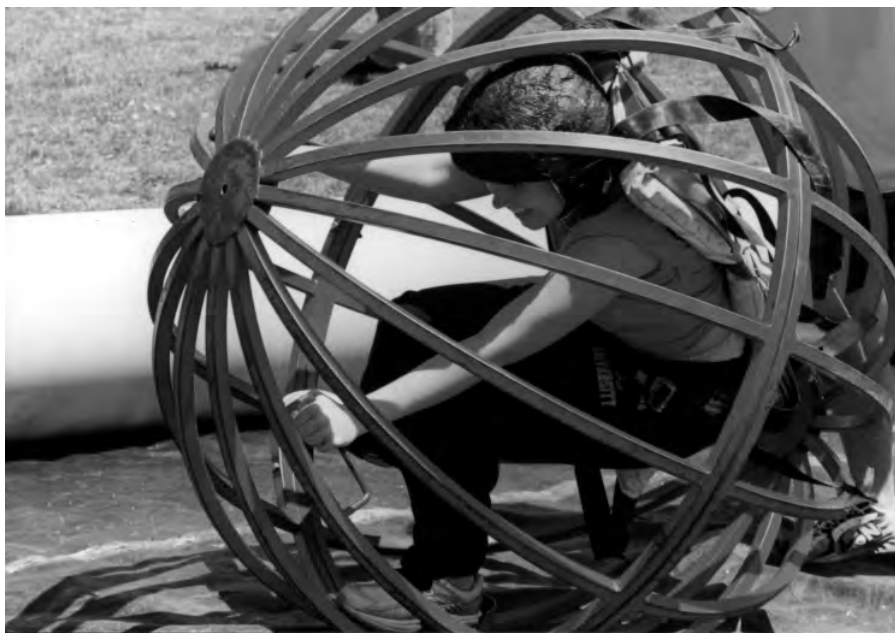
The Black Student Alliance members work to foster understanding of their culture and heritage in the campus community. The Alliance sponsors programs, events, and activities, provides an office where students can discuss issues and relax, maintains a library, and raises funds for charities and other organizations. Call 301/687-7402 for information.

International Students

International students can receive help in dealing with the Immigration and Naturalization Service, learning about local customs and culture, adjusting to campus life and understanding the U.S. educational system. For advising, programs and further information, please contact the Center for International Education at 301/687-4714.

Media and Student Publications

Students who want invaluable experience in media can take part in several extracurricular activities. Writers, editors, and artists/designers can join the staffs of two official student publications: (1) *The Bottom Line*, a student newspaper and (2) *Bittersweet*, a literary magazine. Students interested in broad-



The Spring Fest features a variety of fun activities such as human bowling.

casting can work at WFWM, the campus radio station. FSU-TV transmits important campus information over Channel 3.

Department of Athletics

Frostburg State University has one of the finest and most comprehensive varsity sports programs in the country. FSU offers 21 intercollegiate sports, 11 for women, 10 for men. Women's sports include basketball, cross country, field hockey, golf, lacrosse, soccer, softball, swimming, tennis, indoor and outdoor track, and volleyball. Men compete in baseball, basketball, cross country, football, golf, soccer, swimming, tennis, and indoor and outdoor track.

Competing in Division III of the National Collegiate Athletic Association (NCAA), Frostburg State University is a member of the Eastern College Athletic Conference (ECAC), the Allegheny Mountain Collegiate Conference (AMCC), the Atlantic Central Football



Conference and the Mason-Dixon Conference. Frostburg State has won championships in the NCAA, ECAC, AMCC, and the Mason-Dixon Conference. As a member of NCAA Division III, FSU can offer no athletic scholarships. Hundreds of FSU athletes have earned All-American honors over the years.

As a result of paying an athletic fee, students are admitted free of charge to home athletic events, have access to recreation facilities, and may participate in intramural and club sports.

The athletic department administers and funds the intramural and club sports programs at the university. A wide variety of intramural activities are held each year for both men and women.

Check out Bobcat Athletics on the Internet at www.frostburg.edu.



University Organizations

If you've got a special hobby or academic interest, join a club to find other people who like the same sort of thing! A partial list of clubs and organizations currently active at FSU follows, but the listing is by no means complete because you can start your own club with some friends and add it to the list. All student organizations register in the Lane University Center Reservations Office (301/687-4411) where you can find information about them.

Honor Societies

To encourage and recognize student scholarship within disciplines, more than sixteen academic departments at the University sponsor an honor society organization. First-year students may be eligible to join Phi Eta Sigma. In addition, there are special societies for students in the honors program and students studying wildlife.

Professional Organizations

Over thirty professional organizations can help you learn about and pursue the career you have chosen. These organizations include the Accounting Association, Finance Club, Justice Studies Club, Student Education Association and many others.

Greek Organizations

You may join one of FSU's 16 recognized fraternities/sororities on campus which offer students opportunities in

- leadership
- community service
- personal development
- scholarship
- brotherhood/sisterhood.

The Director of Greek Life at the University (301/687-4411) can provide you with detailed information about these social organizations and membership.

Religious Organizations

Campus religious organizations—both denominational and ecumenical—have established offices and offer programs to students. During orientation, you may voluntarily complete a form about your religious preferences so that these organizations can provide you with information about their services and about opportunities for worship in the community.

Special Interest Organizations

Students have many opportunities to join or to create organizations which fit their interests. Students have created clubs and special interest groups in sports, music, computers, politics, the arts and wildlife.

Registered Student Organizations

Major Organizations

Black Student Alliance
Residence Hall Association
Student Government Association
University Programming Council

Media and Publications

Bittersweet - literary magazine
The Bottom Line - newspaper
WFWM - radio station

Academic

Accounting Association
African American Studies Society
American Chemical Society
American Choral Directors Association
American Society for Mechanical Engineers
Art Club
Association for Computing Machinery
Athletic Training Club
Communication Club
Computer Club
Delta Omicron
Finance Club
French Club
Geography Club
History Club
International Relations Club
Marketing Club
Maryland Student Education Association
National Broadcasting Society
Philosophy Club
Physics & Engineering Club
Politics, Law & Society Club
Pre-Med Society
Psychology Club
Recreation Society
Society for Advancement of Management
Society for Human Resource Management
Sociology & Social Work Club
Spanish Club
Wildlife Society

Honor Societies

Alpha Kappa Delta - sociology
Beta Beta Beta - biology
Gamma Theta Upsilon - geography
Honors Student Association
Kappa Mu Epsilon - math
National Residence Hall Honorary
Omicron Delta Epsilon - economics
Order of Omega - Greek life
Phi Alpha - social work
Phi Alpha Theta - history
Phi Eta Sigma - first year students
Phi Mu Alpha Sinfonia
Phi Sigma Upsilon
Pi Sigma Alpha - political science
Psi Chi - psychology
Sigma Alpha Iota
Sigma Delta Pi - Spanish
Sigma Tau Delta - English

Community Service

Alpha Phi Omega
Alternative Break
Best Buddies
Sierra Student Coalition
Student Center for Volunteerism

Greek Life

Independently Recognized

Alpha Gamma
Gamma Sigma Chi
Kappa Tau Epsilon

I.F.C. (Inter Fraternity Council)

Delta Chi
Phi Mu Delta
Pi Lambda Phi
Sigma Alpha Epsilon
Sigma Tau Gamma
Tau Kappa Epsilon

N.P.C. (National Panhellenic Conference)

Alpha Sigma Tau
Alpha Xi Delta
Delta Zeta

N.P.H.C. (National Pan-Hellenic Council)

Alpha Phi Alpha
Delta Sigma Theta
Iota Phi Theta
Sigma Gamma Rho

Special Interest

Amnesty International
BURG/Peer Education Network
College Democrats
Collegiate Entrepreneurs' Organization
College Republicans
Collegiate Music Educators Nat. Conference
Fourth Dimension Science Fi & Anime Club
Frostburg Pagan Association
FSU Boxing

FSU High Brass Society

FSU Paintball Club
FSU Police Explorer Post 48
Gamers Inc.
G.O.L.D. (Generating Opportunities
for Leadership Development)
Grappling Club
IMAGE
Intramural Club Sports
Karate Club
Kittenettes Precision Dance Team
Lacrosse Club
L.E.A.D. Team
Marching Band
Maryland Student Legislature
Ophelia Project Advisory Council
Rugby Club (Men's)
Ski Club
STARS
Student Health Advisory Council
3 A.M. Society
Trombone/Euphonium Society
Unified Voices Under God's Dominion
Video Gaming Club

Religious Organizations

Baptist Student Ministry
Catholic Campus Ministry
Hillel Organization
Inter-Varsity Christian Fellowship
On Fire For Christ
United Campus Ministry

Multicultural

African Student Association
Chinese Culture Club
NAACP



The Greek Step Show is one of the highlights of Homecoming Weekend.

Academic Life

The Academic Program

The University offers courses of study in the Liberal Arts and Sciences, Business, and Education leading to the following degrees: (1) Bachelor of Science, (2) Bachelor of Arts, (3) Bachelor of Fine Arts, (4) Bachelor of Science in Urban and Regional Planning and (5) Bachelor of Technical and Professional Studies.

We also offer the degrees of Master of Business Administration, Master of Education, Master of Arts in Teaching, and Master of Science in a variety of fields. See the Graduate Catalog for full information.

Undergraduate Degree Requirements

Bachelor of Science Degree

Candidates for the Bachelor of Science degree must meet all of the following requirements:

1. Completion of at least 120 semester hours of college credit.
2. Completion of the General Education Program.
3. Completion of all course work taken at FSU with a cumulative GPA of at least 2.0.
4. Completion of a major with a cumulative grade point average of at least 2.0 in all courses taken in the major department (unless specifically excluded). Interdisciplinary majors count all courses specifically listed as meeting the requirements of the major to determine the major GPA.
5. Completion at Frostburg State University, through course work or special departmental exams, of at least one-half the credit hours required in the student's major department (unless specifically excluded or specified differently in the catalog description of the major). Interdisciplinary majors count all hours earned in courses specifically listed as meeting the requirements of the major.
6. Completion of a minimum of 30 semester hours of credit, of which at least 15 semester hours are upper division credit, towards the degree at Frostburg State University.
7. Completion of one of the following:
 - a. 15 elective credits outside of General Education requirements and course work in the major department.
 - b. An "interdisciplinary" major (one for which there is no "major department").
 - c. A minor.
 - d. A second major.
 - e. Secondary or K-12 teacher education certification.
8. Completion of at least 39 credits at the upper division (300-400) level.
9. Demonstration of technology fluency, defined as proficiency in the University-identified ten Basic Technology Skills, by completing one of the following:
 - a. Passing the *Test of Basic Information Technology Skills* (meets requirement but you do not earn credit).
 - b. Successfully completing COSC 100/110 with a grade of C or better.
 - c. Successfully completing other Frostburg State University courses that provide instruction in the basic technology skills with a grade of C or better. Courses approved for students following this catalog include:
 ART 207 Graphic Design
 EDUC 346, 447, and 448 Educational Technology Labs I, II, and III. (All three one-credit courses must be completed, each with a grade of C or better)
 GEOG 275 Fundamentals of Geographic Data Handling
You must meet all prerequisites for the course(s) selected.
10. Completion of all semester credit hours beyond 90 credits at Frostburg State University, except for up to seven credit hours following the stipulations in the policies concerning attendance at another institution.
11. Completion of all required professional education courses and requirements for students in teacher education programs.
12. Completion of all approved student outcomes assessment activities required by the University and the academic programs.
13. Completion of an application for diploma and graduation when student completes 70 credit hours (forms available in PAWS online).
14. Fulfillment of all financial obligations to the University.

In addition to these requirements, students are strongly encouraged to take advantage of alternative means of earning academic credit outside of the traditional classroom to enhance the quality of the educational experience and to ensure timely progress towards a degree. Options available to students include: online courses; registration in intersession or the summer sessions; independent study or undergraduate research; study abroad; service learning; internships, field experiences, and practica; credit by exam; and advanced placement credits.

Bachelor of Arts Degree

Candidates for the Bachelor of Arts degree must complete all requirements listed above for the Bachelor of Science degree and, in addition, complete or test out of the 250-level course in one foreign language offered at the University or transferred from another college or university.

Bachelor of Fine Arts Degree

The Bachelor of Fine Arts degree is a professional degree currently awarded only to students who major in Art and Design. Candidates for the Bachelor of Fine Arts degree must

complete all requirements listed above for the Bachelor of Science degree.

In the event that a student completes more than one major as an undergraduate student, and one of the majors would culminate in a BFA degree, an additional diploma will be issued by the Registrar's Office. You must declare your request for an additional diploma at the time of application for graduation and comply with the procedures established by the Registrar's Office to administer this policy.

Bachelor of Science in Urban and Regional Planning

The Bachelor of Science in Urban and Regional Planning is a professional degree awarded only to students who major in Urban and Regional Planning. Candidates for this degree must complete all requirements listed for the Bachelor of Science degree.

Bachelor of Technical and Professional Studies Degree

The Bachelor of Technical and Professional Studies (B.T.P.S.) degree is designed to meet the needs of students who have completed an Associate of Applied Science (A.A.S.) degree at a community college in a technical, special-

ized field and want to broaden their educational background and prepare for career advancement.

Currently, collaborative programs with Allegany College of Maryland are offered in health science administration (for students with an A.A.S. in a health professions discipline) and in information technology management (for students with an A.A.S. in computer science and technology). A collaborative program in criminal justice provides bachelor's degree opportunities for students with A.A.S. degrees from Allegany College of Maryland, Hagerstown Community College, and Frederick Community College (A.A.S. and A.A.). Students with equivalent degrees from other institutions also may apply.

In addition to the requirements specified in the description of each major, candidates for the Bachelor of Technical and Professional Studies degree must meet all the requirements listed for the Bachelor of Science degree.

Orientation Requirement

Frostburg State University offers ORIE 101, Introduction to Higher Education, to provide new students with a complete introduction to all dimensions of college life. This one-credit course is required of all first-year students with less than 13 semester hours of transfer credit, and may be elected by any first-year student. You may not withdraw from this course unless you are withdrawing from the University. You will find a complete description of ORIE 101 in the course description section of this catalog.

In the fall semester, most ORIE 101 sections are part of learning communities in which students in your ORIE section also will enroll in at least one other class together. You may study a shared theme across a group of courses, enroll with others who share your interest in a potential major or career, or get to know students who are interested in using certain support services. Stand-alone ORIE 101 sections are offered in the spring.



General Education Program (GEP)

Minimum of 40 credit hours required of all students

Goals of the General Education Program

Frostburg State University's Goals for General Education reflect the mission of the University and its Undergraduate Institutional Learning Goals through a focus on four specific areas of learning.

1. Core skills

You will become proficient in reading, writing, speaking, and listening skills necessary for effective communication. You also will develop quantitative literacy, technology literacy, and information literacy.

You will

- demonstrate foundational skills in the comprehension and interpretation of information in written and oral forms;
- communicate information and ideas effectively;
- understand and apply mathematical reasoning to solve quantitative problems and to evaluate quantitative information and arguments;
- use technological resources as appropriate to access and communicate relevant information.

2. Liberal knowledge and skills of inquiry, critical thinking, and synthesis

You will develop the foundational skills necessary to acquire knowledge in the humanities, the natural sciences, the social sciences, and the arts, which collectively embody the human cultural heritage. You will be introduced to critical thinking.

You will

- demonstrate foundational abilities to apply different methods of inquiry from various perspectives and disciplines to gather information;
- comprehend and use various fundamental research methods to evaluate information critically;
- use problem-defining and problem-solving skills by synthesizing core concepts within and across disciplines;
- demonstrate sustained intellectual curiosity through exploration of emerging issues.

3. Values and social responsibility

You will develop the foundational skills necessary to critically explore, evaluate, and define your values and become responsible citizens in a complex and changing society.

You will

- demonstrate respect and tolerance for other cultures and societies;
- make personal judgments based on ethical considerations and societal values;
- exhibit civic responsibility and leadership;
- understand the purpose and value of community service in advancing society.

4. Appreciation of cultural identities

You will gain insight into the ways cultural identities and experiences shape individual perspectives of the world and influence interactions with people from different backgrounds.

You will

- demonstrate the fundamental knowledge, skills, and attitudes essential for communicating and cooperating effectively with people of diverse backgrounds;
- demonstrate an awareness of the cultural and social exercise of power;
- recognize and appreciate arguments supporting perspectives different from your own.

GEP Grading Policy

- The P/F grading option is not permitted in the General Education Program.
- The grading policy for all **Core Skills** is as follows:

A-F grades will be assigned, with a CS possible for students who have met the CS criteria stipulated in the course syllabus.

The grade of CS may be earned only once per course; any CS assigned thereafter will revert to an F. Exceptions to this policy will be made only with the recommendation of the instructor.

A grade of C or better is necessary to satisfy each Core Skill.

Core Skills courses in which grades of CS, D, F, FX, or WF are awarded must be repeated at Frostburg State University.

Double-counting GEP Courses

- **A particular course may be counted to meet only one General Education requirement.**
- Courses that count for both the General Education Program and major/minor requirements are noted in the major/minor descriptions. You can complete your degree in a shorter time by choosing GEP courses that match the requirements of the majors/minors that interest you.

Core Skills

- All Core Skills may be satisfied by examination.
- You are expected to take these courses during your first 30 hours, with the exception of the advanced composition course requirement.
- If you are placed in a required section of ENGL 101, ENGL 105 (Critical Reading), or DVMT 095 (Pre-Algebra Mathematics) based on your scores on University placement tests, you may not withdraw unless you are withdrawing from the University.
- Once you are enrolled in ENGL 101, Freshman Composition, you may drop the course only during the drop/add period of one week at the beginning of the semester (except for required developmental courses, which may not be dropped). Under unusual circumstances, the chair of the English department may approve exceptions. Poor performance would not normally constitute a basis for an exception.
- You must continue taking a course which satisfies the requirement each semester until you have passed it with a grade of C or better.

Modes of Inquiry

- Modes of Inquiry courses should ordinarily be completed in the first 90 hours.

General Education Program (GEP) *Minimum of 40 credit hours required of all students*

CORE SKILLS - *Minimum of 9 credit hours of coursework or credit by exam*

1. Introductory Composition (3 hours)	3 hours
ENGL 101/111* Freshman Composition	
2. Advanced Writing: One of the following (3 hours each):	3 hours
ENGL 308/309/310/312* Advanced Composition	
ENGL 300 Critical Writing about Literature	
ENGL 330 Business Writing	
ENGL 338 Technical Writing	
ENGL 339 Scientific Writing	
3. Mathematics: One of the following (3-4 hours each):	3-4 hours
MATH 104 Intro to Mathematical Problem Solving	
MATH 102 College Algebra	
MATH 120 Pre-Calculus	
MATH 209/219* Elements of Applied Probability & Statistics	
MATH 236 Calculus I	
Total hours: minimum of 9	

MODES OF INQUIRY - *Totalling 31-32 credit hours*

● **You may not count more than one course or option where there are alternatives listed (as designated by OR) to meet Modes of Inquiry requirements in Groups A,B,C,D and E.**

A. The Fine and Performing Arts: At least one of the following (3 hours each)	3 hours
Art ART 100/111* Art Appreciation or ART 110 Visual Imagery	
Dance DANC 110 Dance Appreciation	
Music MUSC 110 Intro. to World Music or MUSC 117 Music of Africa, Asia & the Americas	
Theatre THEA 106 Intro. to Theatre or THEA 107 Introduction to Theatrical Vision	
B. The Humanities: At least two of the following (3 hours each)	6 hours
History HIST 100/111* The Contemporary World in Historical Perspective	
Languages FREN 250 Overview of French Language & Culture or SPAN 250 Overview of Spanish Language & Culture	
Literature ENGL 150/250* or ENGL 221 Intro. to Literature/Intermed. Composition	
Philosophy PHIL 101/111* Intro. to Philosophy or PHIL 102 Contemporary Ethical Problems	
C. The Natural Sciences: At least two of the following (3-4 hours each)	7-8 hours
Biology BIOL 109 Human Biology and the Environment or BIOL 149 General Biology I	
Chemistry CHEM 100/113* Chemistry and Society or CHEM 101 General Chemistry I	
Geography GEOG 103/113* Physical Geography	
Physical Science PHSC 100 Cosmic Concepts (3cr) and PHSC 101 Measurement (1cr) or PHSC 203 Physical Science or PHYS 215 General Physics I or PHYS 261 Principles of Physics I: Mechanics	
Interdisciplinary IDIS 160 Science, Technology, and Society (3cr)	
D. The Social Sciences: At least two of the following (3 hours each)	6 hours
Economics ECON 200 Basic Economics or ECON 201/211* Principles of Economics (Macro)	
Geography GEOG 104/GEOG 114* Human Geography	
Political Science POSC 110/112* Intro. to American Politics or POSC 113/114* Intro. to World Politics or POSC 131 Introduction to Comparative Politics	
Psychology PSYC 150/151* General Psychology	
Sociology SOCI 100/111* Introduction to Sociology	
E. The FSU Colloquia: Two courses (3-4 hours each)	6 hours
IDIS 150/151* First-Year FSU Colloquium (required; complete prior to earning 45 credit hours) and select one course from	
IDIS 350/351* Advanced FSU Colloquium (Complete after earning 45 credit hours) or one additional Modes of Inquiry course from Groups A-D above	
F. Identity and Difference: One of the following (3 hours each)	3 hours
<i>You must meet all prerequisites listed for the course you select.</i>	
AAST 200 Intro. to African American Studies	MDFL 111 Intercultural Understanding
AAST 400 Africans of the Diaspora	MDFL 301 Latin American Women's Issues
ART 301 Artistic Traditions: Asia	MUSC 117 Music of Africa, Asia & the Americas
ART 302 Artistic Traditions: Africa & the Americas	MUSC 250 Women in Music
GEOG 104/114* Human Geography	PHIL 308 Political Philosophy
GEOG 110 World Regional Geography: Cultural Diversity	PHIL 311 Asian and African Philosophy
GEOG 427 Geography of Languages and Religions	PHIL 409 Philosophy and Women
HEED 125 Health and Culture	POSC 131 Introduction to Comparative Politics
HIST 100/111* The Contemporary World in Historical Perspective	PSYC 220 Psychology of Women
HIST 318 Native Peoples of the Americas	RECR 100 Leisure & Diverse American Culture
HIST 436 Women's Issues in World History	SOCI 224 Cultural Anthropology
INST 100 Intro. to International Studies	SOCI 305/SOWK 305 Racial & Cultural Minorities
INST 150 Introduction to World Religions	WMST 201 Introduction to Women's Studies
Total hours: minimum of 31	

● **A particular course may be counted to meet only one General Education requirement.**

*Honors course equivalent

Majors offered at FSU	Career Cluster**
Accounting*	2
Art and Design	6
Athletic Training	5
Biology*	3,4,5
Business Administration*	1,2
Chemistry*	3,4,5
Communication Studies*	6
Computer Science*	10
Criminal Justice	8
Earth Science	4
Economics*	2
Elementary/Early Childhood	8
Elementary Education	8
Engineering, Electrical (w/UMCP)	3
Engineering, Mechanical (w/UMCP)	3
English*	3,6
Environmental Analysis & Planning	4,9
Ethnobotany	1,3,4,5
Exercise and Sport Science	1,5,8
Foreign Languages & Literature*	1,6
Geography*	1,4,7,9
Health & Physical Education	5,8
Health Science Administration	2,5,8
History*	6
Information Technology Management	2,10
International Studies*	1,2,8
Interpretive Biology & Natural History	1,4
Law and Society	8
Liberal Studies	all
Mass Communication	6
Mathematics*	3
Music*	6
Philosophy*	6
Physics*	3,4,5
Political Science*	8
Psychology*	5,8
Recreation & Parks Mgmt.*	1,4,5,8
Social Science	8
Social Work	5,8
Sociology*	8
Theatre*	6
Urban & Regional Planning	1,4,7,8,9
Wildlife & Fisheries	4

Minors

*Minors are offered in the fields starred above, as well as in African American Studies, Art History, Coaching, Cultural Anthropology, Dance, Environmental Humanities, Environmental Policy, Film Studies, Finance, Financial Services, Fine Arts, Forestry, Graphic Design, Health Promotion, International Studies, Journalism, Leadership Studies, Management, Marketing, Public Relations and Women's Studies.

Majors and Minors

A major consists of a minimum of 30 semester hours of credit in a particular field. A minor consists of a minimum of 18 semester hours of credit in a particular field.

For majors, at least one-half the credit hours required in the student's major department must be completed through course work or special departmental exams offered by Frostburg State University. For interdisciplinary majors and all minors, at least one-half of all the credit hours required for the completion of the major or minor must be earned at Frostburg State University.

To qualify for a specific major or minor, you must achieve, at a minimum, a 2.00 GPA in that field of study. (*See sections on calculating GPA in major/minor.*) Requirements for specific majors and minors appear under the Courses of Study section of this catalog.

You are responsible for planning your major in consultation with the chair of the major department and with your academic advisor. You should officially declare a major prior to the completion of 60 semester hours of credit. If you declare two majors and/or a minor, you must consult with your advisor and with the chairs of all departments involved. To be recorded on your transcript, a second major and/or a minor must be officially declared at least one semester prior to graduation. You are responsible for following departmental requirements, course sequences and prerequisites.

Majors offered at the USM-Hagerstown

Upper division course work required for the majors in business administration, criminal justice, early childhood/elementary education (early childhood specialization), liberal studies and sociology is offered at the USM at Hagerstown.

Capstone Experience

A capstone experience is defined as a course, project, or presentation with variable credits that can be used as the locus for assessment of your learning in your selected major(s). Every academic program at FSU requires that you complete as a component of your major a capstone experience that allows your faculty to evaluate your overall proficiencies and competencies prior to your graduation. Capstone experiences can take various forms: a specific course, a senior thesis, an internship, a written and/or oral report, undergraduate research, etc., as determined by faculty who teach in your major(s).

**Career Connections

Frostburg State University is an active partner in the Career Connections initiative (also known as School-to-Careers or School-to-Work). In the list on this page, the majors offered at FSU are keyed to ten career clusters chosen for emphasis by the State of Maryland. Students whose regions or states use a different cluster framework can overlay that rubric and find majors that match your interests and abilities.

As part of Career Connections, Frostburg State faculty have participated in workshops on how to blend disciplinary and career instruction, developed new curricula in partnership with local schools and community colleges, and updated curricula to insure what you learn matches current industry standards. In addition, teacher education students will learn how to blend career awareness into instruction at all levels.

The ten Maryland career clusters are:

1. Consumer Service, Hospitality & Tourism
2. Business Management & Finance
3. Manufacturing & Engineering Technology
4. Environmental, Agricultural & Natural Resources
5. Health & Biosciences
6. Arts, Media & Communication
7. Transportation Technologies
8. Human Resource Services
9. Construction & Development
10. Information Technology

Interdisciplinary Studies

Interdisciplinary courses and programs enable you to explore human knowledge and experience beyond the limits of a single discipline. Interdisciplinary majors currently offered include Criminal Justice, Earth Science, Environmental Analysis and Planning, Ethnobotany, Health Science Administration, Information Technology Management, International Studies, Law and Society, Liberal Studies, Social Science, and Urban and Regional Planning.

You may also elect to complete an interdisciplinary minor such as African-American Studies, Environmental Humanities, Environmental Policy, Film Studies, International Studies, Journalism, Leadership Studies, Public Relations or Women's Studies.

The Honors Program encourages interaction among good students engaged in the study of diverse disciplines and offers the interdisciplinary Honors Seminar (see IDIS courses in the course description section).

The Freshman Learning Communities also foster the development of interdisciplinary insights by grouping students, faculty and courses to look at a common theme from different perspectives.

Finally, every student will have the opportunity for interdisciplinary study by selecting one of the FSU Colloquia to meet General Education requirements.

Internships

Every program at FSU offers you the opportunity to apply your knowledge to real-world situations through internships, field experiences, service learning, special problems courses, applied research, competitions, simulations or use of actual case studies.

As you advance in your major, you will have increasing opportunities to apply your new knowledge and skills, culminating for some students in a full-time supervised internship for academic credit. See the 400 series in the course descriptions for application course offerings, though you will note that many other courses also include use of simulations and case studies.

You are strongly encouraged to participate in courses that provide an opportunity for you to apply your knowledge prior to graduation and employment.

Catalog Governing Graduation Requirements

Please note that you are responsible for knowing and meeting graduation requirements as stated in the catalog you are following. **Graduation requirements include the basic requirements to earn a bachelor's degree, the General Education Program, and major and minor requirements.** The following provisions apply to part-time as well as full-time students.

1. If you begin your college course work at Frostburg State University, you must meet the graduation requirements of the catalog in effect when you first enroll.
2. If you transfer to Frostburg State University after having begun your college course work at another institution, you must meet the graduation requirements of the Frostburg State University catalog in effect when you first enrolled at the other institution. Or, you may choose to meet the requirements of a later Frostburg State University catalog, provided that you indicate your choice when you are admitted to this university and that you meet all the requirements of the later catalog chosen.

If you had more than two sequential years of non-enrollment since enrolling in an institution of higher education, you must meet the graduation requirements of the Frostburg State University catalog in effect at the time you first enroll at Frostburg State University.

3. If you reenter Frostburg State University after an absence of one semester or more, regardless of whether you have attended another institution in the meantime, you must meet the graduation requirements of your previous Frostburg State University catalog. Or, you may choose to meet the requirements of a later Frostburg State University catalog, provided that you indicate your choice when you are readmitted to this university and that you meet all the requirements stated in the later catalog chosen.
4. The following qualifications apply to the provisions stated in 1-3 above:
 - a. If the University changes a program in a way that prevents your meeting any graduation requirement as stated in your catalog, the change may necessitate substitutions but will not result in any increase in your requirements.
 - b. Any substitution of a major or minor requirement must be approved by your department chair; all other exceptions to graduation requirements must be approved by the Academic Standards Subcommittee. Significant departures from

stated major requirements (e.g., substitution of more than one course) must also be approved by the Academic Standards Subcommittee. Substitutions must be reported with written rationale to the Registrar's Office.

- c. If a major/minor program undergoes revision after the year in which you enroll, you may choose to substitute the new requirements *in full* for those which appear in the catalog of your entry year. In order to select a particular set of major/minor requirements, you must enroll in and complete course work at Frostburg State University during a term when the new requirements are in effect. The catalog under which you first enrolled at Frostburg State University shall continue to govern general education and graduation requirements other than those which apply to the major/minor program. At the time you apply for graduation you must declare in writing your intention to follow a revised program.
- d. If more than seven years have passed since you were last enrolled in college course work, you will have to meet the requirements of the catalog current when you re-enroll. Also, if you take longer than seven years to complete a degree, you may, after the seventh year, be subject to the catalog current at that time.

Additional Academic Opportunities

Special Academic Services

The Office of Special Academic Services provides a wide variety of support programs that complement the University's academic programs. Services include coordination, management and promotion of Summer School and Intersession; management and coordination of Commencements; and administration of the University's academic eligibility compliance policy for all NCAA Division III sports.

You are welcome to visit the office at any time if you have questions or concerns about any of these areas. Special Academic Services is located in Room 512, Ort Library.

Learning Communities

FSU Connections Learning Communities introduce first-year students to the concept of critical thinking and offer the opportunity

to engage in an in-depth exploration of a theme, a career or any of the majors offered at FSU. In addition, learning communities provide an environment which fosters the development of support networks with faculty and other students, relationships that are important contributors to academic success. Each learning community consists of two or three classes linked by theme; all communities include "Introduction to Higher Education" (an orientation seminar required of all new first-year students). Learning community students take their courses together as a group during the fall semester; usually, no more than 20-25 students are enrolled in each community. Learning communities comprise eight or nine credit hours of an average first-semester credit hour load of 12-15 hours. Enrollment is limited to entering freshmen.

The faculty who teach in learning communities often arrange supplemental learning

activities, through special "Connections Seminars," that highlight the themes of the community. A vast majority of learning community courses fulfill FSU's requirements in general education.

For further information, contact the Assistant to the Provost.

Part-time Study

Regularly scheduled classes are available to part-time students wishing to earn college credit or to improve their professional or vocational competence. Information regarding part-time study may be obtained from the Office of Admissions.

Like full-time students, part-time students will be required to complete testing requirements upon entrance and will be required to complete remedial programs in the basic skills of composition, reading, and mathematics if they do not achieve scores at or above prescribed levels.

Summer School and Intersession

The principal mission of Frostburg State University's Summer School and Intersession is to provide FSU undergraduate and graduate students opportunities to enroll in a variety of high quality traditional classroom, internship and distance education courses that will help to ensure or accelerate your degree completion.

As part of this mission, the University provides a wide variety of online classes and more specialized courses during summer school and intersession that are not as available to

nontraditional or part-time FSU students during the regular academic year. In addition, the University offers you opportunities to pursue unique educational experiences that are difficult to schedule while enrolled in other classes.

Intersession

Each January, the University offers a compressed semester allowing students to pursue course work both online and in the classroom in the General Education program, in their majors (either through regular courses or via special-topics courses), or through participation in international studies courses. The semester is usually 18 to 20 days long, and requires intensive study due to its shortened format.

Enrollment in one three-credit course is recommended, although you can register for two courses and up to six credits. All courses offered carry the same level of credit as that applied during regular semesters. To register for Intersession, you may not be on academic probation during the fall semester. In addition, athletes who are involved in competition during Intersession should seriously discuss with their coach the feasibility of taking courses. For full information, refer to the Intersession bulletin distributed each fall, or contact Special Academic Services.

Summer School

From May to August each year, the University offers a program of courses during multiple sessions designed to meet almost every student's needs. Summer sessions provide

specialized courses for FSU students (undergraduate and graduate), students from other higher education institutions, high school students and adults from the general public who seek higher education as a means for professional and personal development. Students can earn college credit by registering for on-site and on-line courses at both the undergraduate and graduate levels in many subject areas. Refer to the summer school bulletin, distributed each spring, for further information, or contact Special Academic Services.

USM Inter-institutional Registration

Full time, undergraduate degree-seeking students may enroll in course work that enriches and augments their programs of study at other institutions in the University System of Maryland. Participants must have at least sophomore standing and a 2.0 cumulative GPA or above. Additional information is available in the Registrar's Office.

International Education

The Center for International Education

The Center for International Education (CIE) promotes, coordinates and supports FSU's study abroad programs and sponsors international co-curricular programs on campus. The Center's Director is advised by the International Education Council consisting of students, faculty and administrators. The CIE houses information on the many study abroad opportunities available to FSU students. CIE's

Primary Study Abroad Opportunities

Program Type	Terms Offered	Where	Academic
FSU Faculty Led Short Term	Summer and Intersession	Various. Recent programs to Spain, Madagascar, Ireland, England, and Malaysia	Earns credit in FSU courses, may be major specific.
Exchange			
Ireland	Fall, spring, year	Mary Immaculate College, Limerick	FSU faculty member on site most springs. Courses in many areas. Pay FSU tuition.
ISEP	Fall, spring, year, summer	Over 220 foreign sites	Pay FSU tuition, room, board. Some programs in French and Spanish
Direct Enrollment			
United Kingdom	Fall or spring	University of Northumbria, Newcastle, England	Courses in many fields.
Centro de Estudios Interamericanos	Fall, spring, summer	Cuenca, Ecuador	Spanish language courses. Homestay program.
Affiliated Programs			
Australearn	Fall, spring, year, summer, intersession	20 sites in Australia, New Zealand, and Fiji	Courses in many fields. English language instruction.
CEA: Cultural Experiences Abroad	Fall, spring and year	Many sites in Latin America and Europe	Courses in many fields. Language intensive programs.
GLS: Global Learning Semesters	Fall, spring and year	Many sites including Cyprus, Belize, Europe	Courses in many fields. English instruction and language courses
SIT: School for International Training	Fall, summer and year	Over 50 programs, many in less developed countries	Emphasis on cultural studies.
AIFS: American Institute for Foreign Study	Fall, spring, summer, year	Over 20 programs globally	Courses in many fields. Some language intensive programs.



FSU students in London.

library includes program materials, guides to study abroad programs and financial aid information. The Center also supplies the ISIC (International Student Identity Card) to students planning to study abroad, and hosts orientation sessions.

The Center also serves the FSU international student community by providing orientation programs for new students, advice concerning immigration and visa issues, guidance about immigration regulations, and extracurricular programming.

Study Abroad Programs at Frostburg State University

Currently, FSU students may choose from a wide range of study abroad programs which are designed to suit a variety of academic and financial needs. Most students study abroad during their junior year, although it is possible to arrange programs during the sophomore or senior year as well. Programs vary in length and academic focus. Some programs are designed specifically for graduate students. Participation in FSU's study abroad program assures that CIE will assist students with the transfer of credit to FSU from their study abroad program. Interested students are advised to attend the annual study abroad fair in September, come by the CIE Office for individual guidance in choosing a program, or to attend one of the CIE study abroad information sessions which take place on a weekly basis every semester. For further information, either phone the CIE Office at 301-687-4714 or visit the CIE web page at <http://www.frostburg.edu/admin/cie/cie.htm>.

Other Opportunities Abroad

In addition to the traditional study abroad programs mentioned above, FSU students may participate in programs that allow students to travel abroad, work abroad, participate in volunteer projects or service learning projects abroad or complete internships abroad. Some of these programs may offer academic credit in addition. Programs are offered by other universities, government and non-governmental organizations and international education organizations. The CIE library and website provide students with resources to identify programs of interest, and help students apply to participate.

Study Abroad Scholarships

Most FSU or FSU affiliated semester or year-long study abroad programs allow students to use their financial aid packages. In addition, the Center for International Education awards scholarships to students who meet specific eligibility requirements. Scholarships in the amount of \$500 and \$1000 per semester or session are awarded twice a year for programs taking place during the fall and spring semesters, the academic year, the intersession and the summer session. The Alan and Jane Wickert Scholarship of the FSU Foundation is dedicated to support study abroad. The CIE also provides information on state, federal and other international scholarships, such as the Gilman Scholarship (for Pell Grant recipients), and scholarships through Rotary, NSEP and the affiliated programs such as Australearn, CEA and AIFS. CIE is the campus support center for Fulbright awards for graduate study abroad. Students may apply at the CIE office.

International Student Services at FSU

Each semester Frostburg State University hosts a number of international students from all over the world. Faculty and scholars from international universities also join the FSU teaching faculty. In addition to providing services in dealing with immigration and naturalization, visa administration, employment, academic counseling, and orientation programs, the CIE organizes social events, week-end excursions and fun days out for international students and faculty. The CIE also administers the Rowe Scholarship program which awards funding to a number of international students each semester. Awards are available both to incoming and returning international students in F or J status. For further information, call the Center for International Education at 301/687-4714 or visit the CIE web site at <http://www.frostburg.edu/admin/cie/cie.htm>.

Enrollment of Undergraduates in Graduate Courses

Frostburg State University undergraduates may take no more than 7 credits in graduate courses for graduate credit prior to completion of the bachelor's degree requirements. To enroll in a graduate course, you must be a senior with at least a 2.5 grade point average and must have the recommendation of your advisor.

Registration for graduate courses will be completed under the direction of the Registrar's Office as a separate registration and will not be included in your undergraduate registration. If you are a full-time undergraduate student taking a graduate course during the academic year, you will not be required to pay tuition for the graduate course since you will pay tuition and fees as a full-time undergraduate.

Credit earned in a graduate course may be considered only as graduate credit and may not be used as undergraduate credit for the baccalaureate degree. The credit, although technically graduate credit, may not be used for a graduate degree at Frostburg State University unless it later becomes part of your graduate requirements.

Exceptions to these policies are made only for students who are admitted to a combined baccalaureate-master's program at Frostburg State University or for programs that have received an exemption to these requirements. See the degree program listings for descriptions of current programs, selection criteria, and exceptions allowed.

Graduate Studies

You may pursue such degree programs as M.A., M.B.A., M.Ed., M.A.T. and M.S. Most students study part-time in the evening. The Master of Arts in Teaching is offered as an intensive, year-long, full time program. You may enroll in courses and complete programs at the main campus in Frostburg or at the USM in Hagerstown.

See the Graduate Catalog for further information.

Post-Baccalaureate Study at the Undergraduate Level

In addition to its graduate programs, FSU also offers undergraduate opportunities for bachelor's degree holders who wish to extend their baccalaureate education. Please note the limitations on transfer credit described elsewhere in this catalog.

Additional Bachelor's Degree Program:

If you have already earned a bachelor's degree from an accredited institution, other than FSU, you may earn an additional bachelor's degree from FSU by meeting the following requirements:

1. Be admitted (contact the Admissions Office for information).
2. Complete an academic major at FSU under the provisions of the catalog in effect at the time of that admission (a period of seven years is allowed for completion).
3. Complete at FSU, through course work or special departmental exams, at least one-half the credit hours required in your major department. For interdisciplinary majors, at least one-half of all the credit hours required for completion of the major must be earned at FSU.
4. Complete a major with a cumulative grade point average of at least 2.0 in all courses taken in the major department (unless specifically excluded). Interdisciplinary majors count all courses specifically listed as meeting the requirements of the major to determine the major GPA.
5. Maintain a grade-point average of 2.0 overall.
6. Complete at least 30 credits of course work at FSU.
7. Submit to the Registrar's Office an application for graduation at least one semester prior to your intended graduation date.
8. Fulfill all financial obligations to the University.

Additional Major Program:

If you are a graduate of FSU, you may add another major to your record by meeting the following requirements:

1. Be admitted (contact the Admissions Office for information).
2. Complete an academic major at FSU under the provisions of the catalog in effect at the time of that admission (a period of seven years is allowed for completion.)
3. Complete at FSU, through course work or special departmental exams, at least one-half of the credit hours required in your major department. For interdisciplinary majors, at least one-half of all the credit hours required for completion of the major must be earned at FSU.
4. Complete a major with a cumulative grade point average of at least 2.0 in all courses taken in the major department (unless specifically excluded). Interdisciplinary majors count all courses specifically listed as meeting the requirements of the major

to determine the major GPA.

5. Maintain a grade-point average of 2.0 overall.
6. Inform the Registrar's Office in writing at least one semester prior to the time you expect to finish the major and wish it to be recorded.
7. Fulfill all financial obligations to the University.
8. In the event that the additional major would culminate in a degree other than the first degree earned by the student, a second diploma will be issued by the Registrar's Office. For details, check with the Registrar's Office one semester before the anticipated completion of the additional major.

Teaching Certification

If you already have a bachelor's degree and wish to pursue teaching certification at Frostburg State University, your options are to:

1. Complete all the requirements of a Maryland state approved program in teacher education as a second major (FSU graduates) or a second baccalaureate degree (graduates of other institutions).
2. Complete the Master of Arts in Teaching, including any undergraduate course work deficiencies. Information about the Master of Arts in Teaching is available from the Department of Educational Professions and in the *FSU Graduate Catalog*.
3. If you wish to teach in a state other than Maryland, it is your responsibility to ascertain if a Maryland state approved program will meet certification requirements.

General Course Work:

Bachelor's degree holders, like any other academically qualified students, may take general course work at FSU provided that they have the proper prerequisites, have been duly admitted to the university, and have paid the requisite fees. Interested students should apply through the Admissions Office.

Certificate Programs

Degree-seeking undergraduates and non-degree-seeking community members may earn a certificate in several specialized areas. Certificate programs are designed to provide specialized skills and knowledge that may enhance your undergraduate program and/or provide skills useful in employment. Undergraduate certificates include a minimum of 12 credit hours.

If you are a currently enrolled, degree-seeking undergraduate student you may declare your intent to complete a certificate on the

declaration of major form and the application for graduation. You must meet all prerequisites stated by the offering department for the particular certificate.

If you are not currently an FSU student, you may be admitted as a non-degree-seeking student to complete a certificate program. You must file an admission application and present evidence that you have a high school diploma or GED, or that you have been approved to participate in the dual enrollment high school/college program. Particular certificate programs may have additional admission requirements. Credits earned towards a certificate may later be applied to a degree if you choose to request admission, and are accepted, as a degree-seeking student. Credits also are transferable.

In order to earn a formal certificate, you must:

1. Earn at least one-half of the credit hours required in the certificate through course work or special departmental exams offered by Frostburg State University, and
2. Earn a minimum of a 2.0 grade point average in courses required in the certificate and completed at Frostburg State University.

(Exceptions to these standards may apply in the case of collaborative programs.)

Successful completion of a certificate program will be noted on your official Frostburg State University transcript. You also will receive a paper certificate to document your accomplishment.

The following certificate programs currently are offered. See the descriptions, and any special admission, prerequisite, and academic standards in the individual descriptions in the Courses of Study section of this catalog.

1. Addictions Counseling (Psychology)
2. Computer Print Graphics (Visual Arts)
3. Computing Technology (Computer Science)
4. Software Development (Computer Science)
5. Programming (Computer Science)
6. Networking (Computer Science)
7. International Area Studies (International Studies)
8. Professional Writing (English)
9. Public Administration (Political Science)
10. Child and Family (currently open only to degree-seeking Psychology majors)

Academic Regulations & Procedures

Student Academic Responsibility

- **You, the student, are responsible for planning your academic program and for meeting the requirements of the University and of departments.**

This responsibility includes developing a complete understanding of, and following all degree requirements, academic regulations, and procedures.

- **You must obtain, retain, and consult regularly the sections from the applicable catalog that govern your graduation requirements.**

The degree requirements specified in the catalog assigned to you at the time of admission or readmission serve as a two-way contract between you and the University. The contract specifies that the basic requirements to earn a bachelor's degree, the General Education Program, and major and minor requirements will not be changed as long as you complete a degree within seven years of the time of your initial enrollment in college. In turn, you are responsible for meeting these requirements.

- **The academic regulations and procedures described in this chapter may change during the period of your enrollment, and it is your responsibility to be aware of, and follow the academic regulations and procedures currently in effect.**

All changes in regulations and procedures will be published in official University publications such as the Undergraduate Catalog and Registration Guide, with prior notice of changes provided.

- You are assigned an academic advisor, whose role is to **assist** you in planning the academic program and in interpreting degree requirements and academic regulations. It is your responsibility to confer regularly with your advisor. The advisor will provide the best, most current information possible, but, ultimately, **it is your responsibility to request and use this advice wisely and to meet graduation requirements and academic regulations.**

- After you declare a major, you are assigned an academic advisor in the department in which you desire to major. **It is your responsibility to promptly declare or change your major** so that an appropriate advisor can be assigned. See the chair of the department in which you wish to major to declare or change your major or to change your advisor.

Academic Advising Policies and Procedures

At Frostburg, you always will have an academic advisor to assist you in realizing your academic and career goals. You are encouraged to see your advisor regularly to discuss your current academic work and future plans, to ask for advice about any problem you encounter, and to find out about other services on campus that are available to support your academic success. You will need to see your advisor at least once per semester prior to registration to plan your schedule for the next term. Your advisor will activate your registration status in PAWS (the Student Administration computer system) so you can regis-

ter and drop/add on the web. Most advisors post appointment sheets outside their office doors prior to registration, or you can call or e-mail your advisor to make an appointment. Plan ahead to make your advising experience successful.

If you enter FSU as a **first-time college student**, you should plan to come to Preview FSU, our freshman orientation program. At Preview FSU, you will work with an experienced faculty advisor who enjoys, and is specially trained, to work with first time students. During your first semester, your advisor will be the instructor of your ORIE 101, Introduction to Higher Education, class. ORIE instructors/advisors include faculty and administrators who volunteer to assist in your transition

to college. You will see your ORIE advisor at least once a week, so take advantage of this contact to ask any question you have. Whenever you are ready, you may officially declare your major. You then will be assigned a faculty advisor in your major department. If you aren't ready to declare your major, your ORIE instructor will continue to advise you until you do, or you may work with the Advising Center (Hitchins 126, 301/687-3132).

If you enter FSU as a **transfer student**, and know what major you want to pursue, you will be advised by the department chair or a designated faculty member during transfer orientation/initial registration. You then will be assigned your regular faculty advisor. If you aren't sure about your major, you will work with the Advising Center staff, who are trained to work with exploratory students, until you are ready to declare your major.

If all goes well, your major advisor will work with you throughout your academic career. But always remember that you can change your major, or request a change of advisor, at any time. Talk to the chair of the department that offers your major if you want to make a change.

Registration

The Academic Calendar lists the registration schedule for each semester and summer session. You may change your schedule within the period prescribed in the Calendar. You must satisfy your financial obligations to the University to complete registration.

Class Standing

Students achieve class standing according to the following table:

Freshman	0-29 semester hours earned
Sophomore	30-59 semester hours earned
Junior	60-89 semester hours earned
Senior	90+ semester hours earned

Course Load

The unit of course work is the semester hour, defined as the normal amount of work done in one 50-minute class period and two hours of outside preparation a week for one semester.

The normal full-time load is 15-17.5 semester hours of credit. The minimum load for a full-time student is 12 semester hours of credit; the maximum, 17.5 hours. If you carry fewer than 12 semester hours of credit you will be classified as a part-time student.

To enroll for more than 17.5 semester hours of credit, you must have earned an FSU cumulative G.P.A. of 3.0 or above, have completed at least one semester of course work at

FSU, and have the written permission of your advisor. Exceptions to these overload guidelines shall be made only upon recommendation of the advisor and the approval of the department chair (or Assistant Provost if the student has not declared a major). Forms for requesting an overload must be submitted prior to registration. You will not be able to register for an overload without permission.

Course Changes

(Drop/add/withdrawal)

You may change your registration (add or drop a course or change sections or credits) using PAWS (The Web-based student information system) from the time of registration through the first week of classes (or the equivalent proportion of class days in a session that is shorter than a semester) if the course or section added has openings. If the course is closed, you must request an override from the department chair involved. **You may not add courses after the first week of classes (or equivalent).**

You are responsible for dropping/adding courses/sections at all times. Failure to do so will result in a grade of FX in the course or section "dropped" and no credit in the course or section "added." However, if you miss the first class meeting without notifying the instructor/department, the department chair at his/her discretion has the authority to drop you from the course. All other drops must be initiated by you.

After the first week of classes, to drop a class, you must complete the change-of-course form and file it with the Registrar's Office. If you drop a course during the first eight weeks (beginning with the first day of classes) of full semester courses or the first half of a course less than a semester in length, you will receive a W. Exact dates governing withdrawal from a course without penalty appear in the Academic Calendar. After this period if you drop a course, the WF and W described below will apply. See the section "Withdrawal from the University" for a description of the process for withdrawing from all of your classes.

WF — withdrew-failing — for official withdrawal from a course after the first eight weeks or first half of a course. (USED in computation of average.)

W — withdrew — with approval of the Dean of the College offering the course, who will grant approval only under exceptional circumstances (e.g. serious illness) documented by the student, after consultation with the instructor of the course. The Dean will notify the academic advisor if a W is approved. A W will not be considered after the last day of classes. (NOT used in computation of average.)

Class Attendance

Faculty members individually set their policy on class attendance. You must understand clearly the attendance policy of each of your instructors and act accordingly. You are responsible for explaining the reason for any absence to your instructor. If at all possible, contact the instructor prior to your absence.

The Health Center does not issue verification notices for routine treatment. In cases of significant or prolonged impairment, the Center will provide appropriate written verification of treatment at your request.

If forced by an emergency to be absent from classes, you may notify the Office of the Vice President for Student and Educational Services, which will keep such information on file should instructors wish to confirm your absence.

Absences for Religious Observances

It is the policy of Frostburg State University that the academic programs and services of the University shall be available to all qualified students who have been admitted to its programs, regardless of their religious beliefs. Students shall not be penalized because of observance of their religious holidays and shall be given an opportunity to make up, within a reasonable time period, any academic assignment that is missed due to individual participation in religious observances. It is the responsibility of the student to notify his/her instructor of conflicts between religious observances and scheduled course activities.

Absences for Activities

The faculty recognize the value of such activities as attendance at meetings of regional and national scholastic and professional organizations, participation in University-sponsored dramatic or musical events, and varsity athletics. *If you participate in such activities and incur class absences because of them, you are responsible for notifying your instructors in advance of such absences.* An instructor who has any question regarding your absence for such activities may call the faculty member or other person responsible for the activity.

If you are on academic probation, you may not incur class absences for non-credit activities without prior permission of your instructors. Since field trips connected with activities offered for academic credit are a part of the academic program, you are eligible regardless of your grade average.

Attendance at Another Institution

Once you enroll as a degree candidate at Frostburg State University, you must request *prior* permission to pursue course work at another institution and transfer it into your program at Frostburg State. This procedure is for your protection to ensure that course work is transferable and is equivalent to the requirement you are trying to meet.

If you have 0-89 total credits earned (including previous transfer credit, credits in which you currently are enrolled at FSU or elsewhere, and the requested credits off-campus), you must follow these procedures:

1. Obtain a list of course offerings and catalog descriptions for the course(s) you want to take at another institution.
2. Complete the Authorization to Attend Another Institution Form in the Registrar's Office.
3. Have course equivalencies determined by the Transfer Credit Officer in the Admissions Office.
4. Return the form to the Registrar's Office for official signature.
5. Take the approval form to registration at the other institution.
6. After completion of the course work, have an official transcript forwarded from the other institution to Frostburg State University.

In addition to the steps noted above, the following special rules apply:

If you have 90 or more total credits (including previous transfer credits and credits in which you currently are enrolled at FSU or elsewhere), you may transfer a maximum of seven additional credits of general education or general elective course work, provided that you still earn a minimum of 30 credits towards the degree at Frostburg State University. These credits may include courses that count toward the major or minor only if you will earn half of your major or minor credits at Frostburg State University. After you have a total of 90 or more credits:

1. Your academic advisor (or department chair/coordinator) must give prior approval for additional transferred credits of general education or general elective course work.
2. Your department chair or coordinator must give prior approval for additional transferred course work that counts toward the major or minor.

You cannot repeat a Basic University Requirement at another institution if you have received a grade of D, F, FX, CS, or WF in a

course that meets that requirement through enrollment at Frostburg State University. Such course work must be repeated at FSU. An exception will be granted if you have not attended Frostburg State University for at least five years and have earned an associate or bachelor's degree at another institution during your absence.

If you have 70 credits transferred from two-year colleges, you cannot transfer additional credit from a two-year college. This is a State regulation and no exceptions are allowed.

Exceptions to the rules specified above require a written appeal to the Academic Standards Subcommittee at least one month prior to the term in which you wish to study at another institution.

Auditors

To be an auditor (one enrolled for non-credit instruction in a course), ordinarily you must have earned a place on the Dean's List (at least a 3.40 average) the preceding semester. You also may request to audit a class in which you previously have received credit if a period of time has elapsed since you enrolled in the course and you wish to refresh your knowledge prior to enrolling in a sequence course. Finally, if you are a non-degree student enrolling in a course for personal enrichment you may enroll as an auditor. You are charged the same tuition and fees for audit courses as for credit courses. You may be an auditor only if you have the consent of the instructor, ordinarily your advisor, and the Assistant Provost and if space is available. If the space is needed, registrants for credit may supplant auditors.

As an auditor, you are expected to attend regularly but do not participate in class discussion except upon request. You are not required to write papers or take quizzes, tests, or examinations. No credit or grade will be earned, but the audited course when completed will carry the symbol AU (Audited).

You are not eligible for credit by examination to cover a course you have audited. Courses which have been audited may not be taken for credit.

To be admitted to class as an auditor, you must be officially registered. You may secure approval to audit through the drop/add period.

Testing

The University provides testing programs designed to help students through their academic careers. As a result of these measurements of aptitude and achievement, students with varied personal and educational backgrounds can evaluate their relative strengths

and weaknesses. Because other colleges throughout the country administer these same tests, it is possible to compare FSU students with other college students objectively. The University makes use of this knowledge in planning the curriculum and in advising students about their programs.

Testing for First-Year Students

A. SAT:

To enroll in the University, you are required to submit the results from the College Board SAT. Take these tests at any convenient center on one of the dates assigned by the College Entrance Examination Board. Get detailed information at local high schools. If you take the American College Tests, it is recommended that you request a transcript of the results be sent to the University. Individual departments may also require achievement tests in their areas to be taken after you have been accepted to the University.

B. Testing Policies of FSU:

1. All entering first-year students with fewer than 13 credits will be administered diagnostic placement tests in reading, writing and mathematics to determine their strengths and weaknesses in those areas. Transfer students with more than 12 credits who have not transferred Freshman Composition and/or a college-level mathematics course will also be required to take the appropriate diagnostic placement test(s).
2. If you earn below a predetermined standard on these examinations, you will be required to participate in specified courses in your first semester to develop your skills to a level which is expected of all entering students. You may not withdraw from these courses unless you are withdrawing from the University. If you are unsuccessful, you must re-enroll in the relevant course(s) in your second semester, and in each subsequent semester until you receive a P or C grade in the course. If you receive an F or FX in the second semester (or any subsequent semester of required enrollment) you will be academically dismissed from the University.

Senior Testing

Some graduate schools and advanced professional programs may require aptitude or achievement test scores for admission. Most of the commonly needed tests such as the Graduate Record Exam and Graduate Management Admissions Test are given on campus. The PRAXIS exam, which is required for Maryland certification as well as for certification in several other states, is also offered.

Dates for these tests are publicized on campus. Further information about these and other tests is available in Counseling and Psychological Services.

Non-Graded Assessment Requirements

Assessment is the evaluation of learning used to improve teaching and academic programs. It is designed to identify patterns of strengths and weaknesses in student learning so that changes can be made that will benefit students. Some non-graded assessment activities may be voluntary, others may be required for graduation.

Credit by Examination

In addition to earning credit at FSU or transferring course credit from other accredited institutions, you may acquire up to 30 additional credits through examination. Examinations accepted include: Advanced Placement Examinations, College Level Examination Programs (CLEP), the International Baccalaureate Programme and special departmental examinations. Students who believe they may qualify for credit by exam must take the examination prior to signing up for the course. See the *Policies* section of this catalog for details on credit by exam procedures.

Transcripts of Records

To obtain an official transcript, fill out the proper form in the Registrar's Office or file a request online through your PAWS account. Official transcripts will be forwarded to designated parties or may be picked up in person.

Withdrawal from the University

To leave the University, you must withdraw officially by completing the following procedure. Failure to follow this procedure may jeopardize the right to withdrawal without penalty and to any refunds (see *Refunds Policy* in the catalog section on Expenses).

To withdraw from the University prior to the end of the drop/add period for the semester in which you are enrolled, you must notify the Registrar's Office in writing. That office will remove you from your classes and notify the Business Office that you will not be attending the current semester. You must contact the Business Office to arrange any refund that may be due to you.

If you withdraw after the end of the drop/add period for a semester in which you are enrolled, your permanent academic record will always carry one of the following notations, as well as the date on which withdrawal

procedures were completed. You will receive a *W* in each class if you withdraw within the first eight weeks of classes; *W* or *WF* depending on the circumstances surrounding your withdrawal after eight weeks; or *FX*, unofficial withdrawal. A *W* or *WF* will not be considered after the last day of classes.

To be eligible for the *W* after the first eight weeks of classes, you must provide written documentation of extenuating circumstances (such as medical problems) to the Office of the Vice President for Student and Educational Services. With approval of the Office of the Provost, the Registrar's Office will post a *W* for all courses and notify all other relevant campus offices of your withdrawal.

If you withdraw without notification, the date of withdrawal will not be known, and you will not be entitled to *Ws* on your transcript; grades will reflect instructors' appraisal of your overall performance, usually *FX*.

If you officially withdraw from the University near the end of a semester because of academic difficulty and receive *WFs* in courses for which you were registered, you may, as a result of your new cumulative grade point average, be academically dismissed from the University.

Once you withdraw, particularly for reasons other than medical, the University is not obliged to readmit you. Readmission especially will not be approved if you withdraw to circumvent regulations.

Call to Active Military Duty

A student called to active military duty during a national or international crisis or conflict should inform the University of the reason for his/her withdrawal prior to leaving, including presentation of copies of appropriate military orders, in order to benefit from special policies and procedures governing interruption of one's academic career for such military service. Please contact any one of the following offices. The designated contact person in each office will assist in facilitating your withdrawal and will contact other offices to insure that special exemptions concerning refunds and *W* or *I* grades are applied:

Veterans' Affairs

Sand Spring Hall 110

Phone: 301/687-4409 Fax: 301/687-3065

Office of the Registrar

Pullen 144

Phone: 301/687-4347 Fax: 301/687-4597

Student & Educational Services

Hitchins 116

Phone: 301/687-4311 Fax: 301/687-4937

Leave of Absence

If you withdraw from Frostburg State University with the intent to return within a semester or a year, you may request a leave of absence. If you are on an official leave of absence, you will continue to receive communications from the University, will not have to submit a readmission application or admissions deposit, and will be able to participate at the same time as continuing students in such activities as registration and the housing lottery. You must notify the Financial Aid Office that you are on leave, and file financial aid and scholarship applications by the regular deadlines.

To be eligible for a leave of absence, you must have a 2.0 cumulative grade point average at the end of your last term of enrollment, and have no judicial system penalties or charges pending. You may obtain an application for a leave of absence at the Registrar's Office. The application requests information about the reasons you are requesting a leave, what activities you plan during the leave, and for how long you are requesting a leave (one calendar year maximum). Your advisor will need to sign off on your application, which you then must return to the Registrar's Office no later than the last day of the drop/add (late registration) period in your first semester of leave.

If you are planning study at another college during your leave, you must complete an Authorization to Attend Another Institution form (available in the Registrar's Office) and obtain the required approvals. See the section of this catalog on Attendance at Another Institution concerning the rules for transfer of credit for students seeking a degree at FSU. If you plan study abroad during your leave, you must use the procedures currently in place for international study, administered by the Center for International Education.

You must keep the University informed of your permanent and local addresses during your leave in order to receive the privileges specified. If you do not enroll at the University at the end of the time period specified in your leave request, you will need to go through the readmission process whenever you return.

Graduation

To graduate with a baccalaureate degree, you must earn a minimum of 120 semester hours of credit and fulfill all degree requirements. Carrying a normal load of 15 semester hours of credit each semester, you can complete a degree program in eight semesters. You may graduate in fewer than eight semesters by attending summer sessions and/or Intersession, or by carrying more than 15 se-

master hours per semester. To accelerate, you should plan your program well in advance with your advisor.

You may enroll as a part-time student, carrying as many as 11 semester hours in the regular program.

To graduate on a given date, you must make application on a form furnished by the Registrar's Office (also available online in PAWS). Submit the application to the Registrar's Office when you complete 70 credit hours, or at least one year prior to your proposed graduation date.

To participate in commencement, you must have successfully completed, or be enrolled in the semester prior to the ceremony, in all course work required for you to complete your degree. If you complete your degree requirements in January or May, you are eligible to participate in the May commencement ceremony. If you complete your degree requirements in July, August, or December, you are eligible to participate in the December ceremony.

Exceptions to these rules require a written request to the Registrar's Office at least three weeks prior to the commencement ceremony, accompanied by evidence that you have enrolled in, and paid tuition for, course work that will meet the remaining requirements during the summer session immediately following May commencement or the January Intersession immediately following December commencement. Permission will be granted only if you have no more than two courses totaling no more than nine credits remaining to complete your degree and have a 2.0 cumulative FSU grade point average and a 2.0 cumulative FSU grade point average in your major at the time of the request, as determined by the official degree audit performed by the Registrar.

Participation in commencement does not confer a degree. Your degree will be posted on your official transcript and you will receive a diploma only after you have documented that you have met all degree requirements.

Graduation with Honors

If you have completed at least 50 credits at this University with a high cumulative grade point average, your scholastic achievement is recognized in the honors degree, awarded as follows:

Cum Laude	from 3.400 to 3.649
Magna Cum Laude	from 3.650 to 3.899
Summa Cum Laude	3.900 and above

Academic Standards

Grades

Your progress as a student is evaluated and officially reported at the end of each semester. Letter grades are used to record achievement. Generally, grades represent standards of comprehension of knowledge and the ability to communicate knowledge, and are recorded on your permanent record at the end of each semester.

The grading symbols used at Frostburg State University are as follows:

A	Superior
B	Above average
C	Average
D	Passing, but below average
F	Failure
P	Pass
W	Withdrew
WF	Withdrew after the withdrawal deadline (counts as an F, failure)
FX	Withdrew unofficially (counts as an F, failure)
NC	No credit
I	Incomplete
AU	Audit (no credit earned)
NR	Grade not provided by instructor
CS	Continued Study Required (you must enroll in a course which satisfies the requirement in the next semester). Only available in English and mathematics courses that meet Core Skills Requirements.
N	Non-pass (not permitted except where P/N is the only method of evaluation for a particular course)
AP, CE, CL, IB, PT - Pass by examination	

Incompletes

The grade I (Incomplete) may be given at the instructor's discretion in exceptional, documented cases if, after completing most of the work in a course, because of illness or other reasons beyond your control, you are unable to complete the remaining course requirements. An I may be removed and another grade substituted if you complete the course requirements to the instructor's satisfaction within six weeks of the beginning of the following semester. If you fail to remove the Incomplete within the prescribed period, the I will automatically be replaced by an F on your permanent record. It is your responsibility to make arrangements to complete the course requirements for the removal of the I.

Withdrawal

W-Withdrew; WF-Withdrew After Deadline (Failing); FX-Withdrew Unofficially (Failing). The FX will be given only if you have failed to withdraw or drop officially or have stopped going to class prior to the end of the

semester. Failure to pass the course because you did not take the final exam or complete other course requirements will be recorded as an F grade rather than an FX.

NC Grade

The grade NC (No Credit) is to be used at an instructor's option (instead of a grade of F) if you have put forth effort to master the content of the course but have not achieved at a level to warrant a grade above F. The NC Grade may be used only if you have earned fewer than 60 credits at the time grades are posted.

Limited Pass/Fail Option

You may take only one course per semester on the Pass/Fail Option and no more than four courses Pass/Fail during your college career. You will receive the grade of P for each of these courses passed. Credits earned in a course in which a P is received will be counted toward the number of semester hours of credit required for graduation. If you fail to do passing work in such a course, you will be graded F. The grade of P will not be used in the computation of cumulative grade point average; a grade of F will be computed.

Upon approval of your advisor, at final registration or up to eleven class days following registration, you may elect the P/F option for a course by submitting a form to the Registrar's Office. At no time during the semester will an instructor be informed by any administrative office which students are enrolled for P/F credit. The instructor will assign grades of A, B, C, D, FX, or F to each student, and the Registrar's Office will then enter grades of P for students earning A, B, C, or D but will retain a grade of FX or F.

If you wish to transfer or attend graduate school where letter grades are necessary, you may request, in writing, that the Registrar's Office provide letter grades for those courses in which a P was recorded.

Courses in the undergraduate program may be taken for P/F credit with the following restrictions:

1. The P/F option is not permitted to be used in the General Education Program.
2. The P/F option may not be used for any course taught by your major or minor department or which fulfills your major or minor requirements, including those courses which are required by, but offered outside of, the major or minor department.

3. If you are on academic probation, you are not eligible to enroll in a course on a P/F basis.
4. You may not elect to take more than one course per semester for P/F credit. The total number of courses you may elect to take for P/F credits is four.
5. Once registered in a course on a P/F basis, you may not later choose to take the course on the conventional letter-grade system, except as noted in number 6 below.
6. If you change your academic program so that a course previously taken for P/F credit becomes a requirement for a major, minor, or a professional program, you will receive the conventional grade originally reported by the instructor.
7. You may drop a P/F course the same as any other course.
8. You are subject to the same prerequisites and requirements for the course as is the student enrolled in the course under the standard grading system.
9. To be eligible for the Dean's List, you must take 12 semester hours of graded credit; thus 9 graded credits and 3 credits on a P/F basis do not qualify you for consideration.

Specifically, the P/F option may be used only for elective courses outside of the General Education Program, majors, minors, and concentrations.

Mid-semester Warnings

Faculty members will assess students' progress in all 100- and 200-level courses, and in all courses that meet Core Skills Requirements in the General Education Program, prior to mid-semester. Students performing at the D or F quality level will be issued a mid-semester warning early in the seventh week of classes. Students are responsible for discussing their performance with their instructors immediately.



Grade Points and Grade Point Averages

A four-point system is used to indicate quality of academic work through a grade point average:

Grade points per semester hour

A	4
B	3
C	2
D	1
F, WF, FX	0

Grades of P, PT, N, NR, NC, I, W, AU, and CS are *not* used in computation of averages.

The grade point average for a semester is determined by dividing the total number of grade points by the total number of semester hours graded with A, B, C, D, F, WF, and FX that semester.

The cumulative grade point average is found by dividing the total grade points earned in all courses completed at Frostburg State University by the total number of semester hours graded with A, B, C, D, F, WF, and FX at FSU. For example: a junior has attempted 80 semester hours at Frostburg and has earned a total of 192 grade points. The cumulative GPA is 2.40. If a course is repeated, the last grade earned is included in the computation. (*See Course Repetition section below.*)

As with most colleges and universities, credit hours earned at other institutions are accepted for transfer but grades are not. Consequently, the grades from transfer credits are not computed into the cumulative grade point average at FSU. However, academic progress is expected according to the total credit hours earned, including transfer credits.

Calculation of GPA in Major:

1. All courses taken in the major *department* count in calculating the grade point average for that major (unless specifically excluded).
2. Courses required for the major but taken outside the major department are not counted in the computation, unless specified in the catalog description of the major requirements.
3. Interdisciplinary majors, however, count all courses specifically listed as meeting the requirements for the major. Interdisciplinary majors include Criminal Justice; Environmental Analysis and Planning; Earth Science; Ethnobotany; Health Science Administration; Information Technology Management; International Studies; Law and Society; Liberal Studies; Social Science; and Urban and Regional Planning.

4. Prior written approval of the advisor and the department chair is required to repeat a course in which a satisfactory grade has been earned (whether a grade is considered "satisfactory" in a given major is defined by each department).
5. If a course is repeated, the last grade earned is included in the computation. (*See Course Repetition section below.*)

Calculation of GPA in Minor:

All courses required for the completion of a minor are used in calculating the grade point average.

Course Repetition and Grading

Any course taken at Frostburg State University for the Core Skills Requirements of the General Education Program must be repeated at FSU until a satisfactory grade is achieved — at least a C in all courses.

A course may be counted toward graduation requirements only once regardless of how many times it is repeated unless the officially approved course description states that the course can be repeated for credit.

Beginning with courses repeated in fall 2007 and after, when you repeat coursework in which you earned a grade of A, B, C, D, F, FX or WF, the last grade earned, whether higher or lower, will count in your cumulative grade point average. Only a grade of A, B, C, D, F, FX, WF, or P (in courses where all students are graded P/F) can replace the previous grade earned. The earlier grade will continue to appear on your transcript, but the credit hours attempted or earned and the grade earned in the previous attempt will not be used

in calculating the cumulative grade point average and cumulative credits. The coursework must be repeated at Frostburg State University. (*See the special rule above concerning approvals required for course repetitions in your major.*)

Change of Grades

A faculty member desiring to change a student's grade that has already been recorded with the Registrar must submit to the Registrar a Change of Grade form stating the reasons for the change. If the change of grade is not from "I" (incomplete) to a letter grade, the form must be approved by the Chair of the Department (or the Dean of the College if the Chair is the instructor) in which the course resides.

All grade changes must be made within six weeks of the beginning of the following semester. No grade changes are allowed after this date except in the case of an ongoing grade grievance that has reached Stage II; a late withdrawal due to documented extenuating circumstances; or, in exceptional cases, with the approval of the Dean of the College that offers the course. Faculty and students should raise issues about grades immediately upon recording and receipt.

Dean's List

Shortly after the end of each semester, the Dean of each School announces the names of students recorded on the Dean's List. The list includes all students who have earned a grade point average of at least 3.40 with at least 12 semester hours of graded credit for the semester.



Standards Governing Academic Probation and Dismissal

A cumulative grade point average (GPA) of 2.0 is the minimum standard acceptable for work leading to a bachelor's degree. If your cumulative GPA falls below 2.0, you will be placed on academic probation or be subject to academic dismissal.

Review of Student Records

Your records will be reviewed for possible dismissal at the end of the fall and spring semesters and the second six-week summer session. If you do not meet prescribed standards at the end of the spring semester, you will be so informed, but you will be permitted to attend any summer session except the third four-week session. You will need to meet the standard prescribed for your number of earned hours and number of semesters on probation no later than the end of the second six-week session or you will be dismissed and not allowed to apply for readmission until the following summer.

Academic Dismissal

Subject to the proviso that only those students who are on academic probation during a term or who fail basic skills courses on the second attempt or later are subject to dismissal at the end of that term, you will be dismissed for unsatisfactory scholarship if **any one** of the following conditions applies:

1. Your cumulative grade point average falls below 1.0;
2. You fail to meet the basic skill standard in reading, writing, and/or mathematics (as defined in the section of the catalog on testing policies);
3. You fail at least half of the semester hours of credit in any single semester while on academic probation;
4. You fail to meet the minimum academic progress standard for your number of earned hours while on academic probation (*see table on this page.*)
5. You remain on academic probation for three successive semesters without achieving a cumulative GPA of at least 2.0. Any enrollment in a summer session counts as one semester on probation.

Dismissal Conditions

1. You will not be allowed to enroll at Frostburg State University for at least two semesters. The summer sessions are considered the equivalent of one semester.

2. After the minimum two-semester dismissal period, you are eligible to apply for readmission through the Admissions Office. Readmission is not guaranteed. (*See the section on readmission in the admissions section of the catalog.*)

Dismissal Appeals

You may appeal your dismissal for unsatisfactory scholarship. To do so:

1. Submit a letter of appeal to the Academic Standards Subcommittee, c/o the Assistant Provost, who serves as Chair.
2. You must submit your letter of appeal and all documentation by the deadline specified in the academic dismissal notice. Letters of appeal received after the deadline will not be considered.
3. Your letter of appeal must demonstrate that your poor academic performance has resulted directly from serious physical, emotional or other personal problems. You must detail the reasons for your poor academic performance and provide documentation of the existence of the problems. You must show that the problems described have been addressed and that there is reason to believe that these problems will no longer affect your academic performance.
4. If you are reinstated on appeal, you will have to agree to meet specified conditions listed in the response to your appeal.

Academic Probation

1. If you are a first time FSU student whose FSU GPA is less than 1.0, you will be placed on conditional probation. You are not allowed to enroll in more than 13 credit hours during the following semester and you must enroll in a specified section of ORIE 101, Introduction to Higher Education, for assistance in improving your academic record.
2. If you have earned a cumulative grade point average of 1.0 or above, but below 2.0, you will be placed on academic probation.
3. You will be allowed to continue to enroll on academic probation if you meet the minimum academic progress standard for your number of earned hours (*see table on this page*), but for no longer than three successive semesters.

4. If you are on academic probation during the fall semester, you may not register for January Intersession courses. If you are on academic probation during the spring semester, or are placed on academic probation at the end of the spring semester, you may not register for the third four-week summer session.

Minimum Academic Progress Standards

The minimum academic progress standards you must meet in order to be continued on academic probation are as follows:

Total Hours Earned ¹	Minimum FSU Cumulative GPA ²
0-14	1.00
15-29	1.40
30-44	1.60
45-59	1.80
60-above	2.00

¹Total hours earned = all earned hours, graded and ungraded, including transfer credits.

²Cumulative FSU GPA = all letter grades (A, B, C, D, F, FX, WF) earned in all courses attempted at Frostburg State University, excluding prior grades in courses repeated at FSU and grade forgiveness. Enrollment at schools other than FSU can not improve the GPA because credits, not grades, transfer from these institutions.

Academic Warning

If your semester GPA falls below 1.5 and your cumulative GPA is below 2.5 you will be placed on academic warning, and must meet the warning conditions specified below.

Additional Probation and Warning Conditions

If you are on academic probation or warning, the following rules apply:

1. You may not enroll for more than 15 credit hours per semester.
2. You must have your course schedule and load reviewed and approved by your academic advisor. You must meet regularly with your advisor throughout the semester. (The Academic Standards Subcommittee seriously considers the written report of your advisor should you be subject to academic dismissal.)

Academic Eligibility for Athletes

As a student-athlete, you must be eligible according to the regulations of the National Collegiate Athletic Association and the academic eligibility standards of Frostburg State University. Specifically, in order to be eligible to participate in intercollegiate athletics, you must meet the following criteria:

1. Be regularly admitted as a degree-seeking student.
2. At the time of participation in intercollegiate athletics, be registered for and maintain enrollment in 12 or more credit hours, with the following exceptions:
 - a. You may practice and compete during the vacation period immediately preceding initial enrollment provided you meet all other eligibility requirements.
 - b. If you are an undergraduate student enrolled in the final semester of a baccalaureate program, who is certified as enrolled in all courses required to complete degree requirements by the Registrar's Office, you may practice and compete while enrolled in less than 12 credit hours with the approval of the Director of Special Academic Services.
 - c. If you are a graduate student who previously attended this institution as an undergraduate, you may practice and compete while enrolled in a minimum of nine credit hours with the approval of the Director of Special Academic Services.
3. Complete the maximum of four seasons of competition in any one sport during the first 10 semesters (15 quarters) of full time enrollment in a collegiate institution.
4. If you are a transfer student who has ever participated in intercollegiate athletics:
 - a. Be certified by the transfer institution as academically and athletically eligible had you remained at that institution. If you transferred from a four-year institution to a two-year college and then to Frostburg State University, you must have been both academically and athletically eligible had you remained at the previous four-year institution, or you must have completed 24 semester hours (or 36 quarter hours) of transferable degree credit and at least two semesters (or three quarters) of attendance at the two-year institution, in order to be immediately eligible at FSU, or
 - b. Complete two full time semesters in residence at Frostburg State University before being eligible to compete.
5. If you are a continuing or readmitted student:
 - a. Pass a minimum of 24 credits since the beginning of the last season of competition in a particular sport, with the following exceptions:
 - 1) You may request that credits earned in excess of the minimum 24 credits per year in previous years be counted to meet the 24-credit requirement. Each "banked" credit may be counted only once. Credits earned in repeated courses that are not repeatable for credit may be counted only once. Banking must be approved by the Director of Special Academic Services.
 - 2) You may receive an exception to the 24-credit rule if you can document circumstances outside your control which interfered with your ability to complete the required credits in a particular year, but you are still making satisfactory progress towards graduation. Rules established by the NCAA for Divisions I and II serve as guidelines for acceptable circumstances. To request an exception, you must submit a written appeal to the Athletics Program Advisory Group.
 - b. By the beginning of the fifth full-time semester, declare an academic major as proof of normal progress towards the degree.
 - c. Meet the minimum academic progress standards defined for your academic level (*see table on this page*), with the following exceptions:
 - 1) If you are ineligible at the beginning of a semester, you may become eligible mid-semester only due to:
 - a) Successful completion of a course in which you earned an incomplete (I) grade.
 - b) An official grade change.
 - c) A grade change due to recognition of an institutional error.

In any of these circumstances, you will not be eligible until the grade change is officially recorded in the Registrar's Office.

Minimum Academic Progress Standards for Athletes

Total Hours Earned ¹	Minimum FSU Cumulative GPA ²
0-29	1.65
30-above	2.00

¹Total hours earned = all earned hours, graded and ungraded, including transfer credits.

²Cumulative FSU GPA = all letter grades (A, B, C, D, F, FX, WF) earned in all courses attempted at Frostburg State University, excluding prior grades in courses repeated at FSU and grade forgiveness. Enrollment at schools other than FSU can not improve the GPA because credits, not grades, transfer from these institutions.

- 2) First -year transfer students will be held to the same standards as incoming freshmen, regardless of the number of earned semester hours.
- 3) You may request a waiver of the minimum GPA requirement (for an FSU GPA between 1.75-1.99 only) if compelling circumstances are present. Each request shall be considered on its own merits, independent of any other previous request. To insure consistency, waiver requests must be submitted to the Athletics Program Advisory Group. A record is kept of all waiver applications and the decisions rendered. Decisions are sent to the conference office as well.
- d. If you are allowed to re-enroll on academic probation or based on a successful appeal of academic dismissal, or you are readmitted on academic probation, you will not be allowed to participate in athletics unless your Frostburg State University cumulative grade point average meets the minimum specified above for the number of credit hours earned, and unless you have earned a total of 24 credits since the beginning of the last season of competition in a particular sport.
6. Requests for the application of the exceptions specified above must be submitted to the individual or committee listed. Requests for waivers of NCAA regulations must be submitted to the Director of Athletics for approval and transmission to the appropriate authorities.

College of Business

Programs offered in the College of Business

Accounting
BS Accounting/MBA Dual Degree
Business Administration
Economics (business concentration)
Economics
Finance
Financial Services
Management
Marketing

FSUBusiness Mission:

FSUBusiness provides progressive learning experiences to help students prepare to successfully meet professional opportunities through a dynamic educational environment that emphasizes applied learning, leadership, and a framework for professional growth.

Mission Statement Components:

- FSUBusiness provides all students, but especially those from Maryland, access to quality professional education.
- FSUBusiness emphasizes excellence in teaching at the undergraduate and master's levels through its small class environment and a caring, interactive focus.
- FSUBusiness provides intellectual and professional development to business students through coursework, student organizations, research opportunities, and a focus on leadership, core values, and regional engagement.
- FSUBusiness secures inputs from significant constituencies, such as business practitioners, alumni, and students, regarding their education needs and their view of FSUBusiness' quality.
- FSUBusiness faculty are involved in research and regional engagement endeavors, thereby allowing them to enhance their ability to engage in effective teaching, contribute to the body of knowledge in their academic fields, and provide assistance to organizations in the local community.

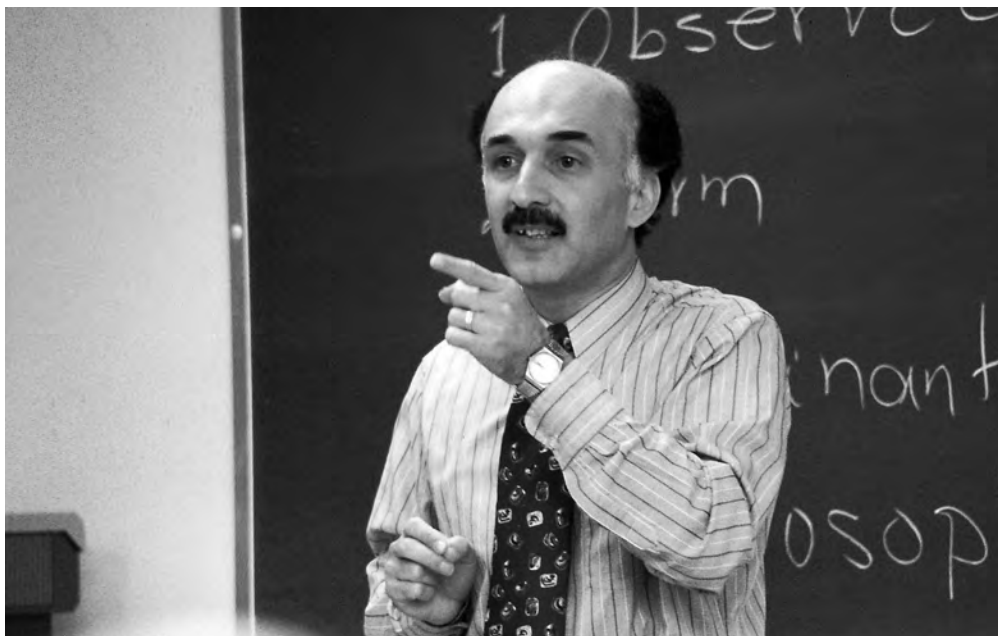
Learning Goals for all FSUBusiness Undergraduate Programs:

In addition to Institutional Learning Goals, the basic educational objectives of FSUBusiness undergraduate common body of knowledge courses (CBK) and its major programs are:

Students will develop and be able to demonstrate competencies appropriate for entry-level professionals in the following areas:

1. Communication and information technology skills (Reading, Writing, Speaking, Listening, & Technological fluency)
2. Analytic and reflective thinking skills (critical thinking)
3. Leadership, team work & collaboration skills
4. Personal responsibility: Ethics, values, and diversity understanding
5. Business Knowledge: core and discipline-specific knowledge
6. Application of business knowledge





Dr. Ahmad Tootoonchi, chair of the Management Department, is a two-time winner of the Faculty Achievement Award for Teaching.

FSUBusiness Common Body of Knowledge (CBK)

All accounting, business administration and economics-business concentration students are required to complete the following courses with grades of C or better (P grades in BUAD 105 and BUAD 400):

Outside FSUBusiness (18-19 hours):

CMST 102/112 Introduction to Human Communication
 COSC 100/110 Introduction to Computer Science (Tech. Fluency)
 ECON 201/211 Principles of Economics (Macro) (GEP Group D)
 ECON 202/212 Principles of Economics (Micro)

Choose one of the following (3-4 hours):

MATH 106 Algebra with Calculus for Business
 MATH 220 Calculus for Applications I
 MATH 236 Calculus I (Core Skill 3)

Choose one of the following (3 hours):

MATH 209/219 Elements of Applied Probability and Statistics (Core Skill 3)
 MATH 380 Introduction to Probability and Statistics

Inside FSUBusiness (33 hours):

ACCT 211 Financial Accounting
 ACCT 212 Managerial Accounting
 BLAW 291 Legal Environment of Business
 BUAD 105 Professional Development I (2 hours)
 MGMT 351 Management of Organizations
 MGMT 355 Operations Management
 MGMT 356 Leadership and Human Behavior
 MKTG 361 Principles of Marketing
 FINA 370 Corporate Finance
 or FINA 476 Financial Management (Accounting majors must take this as a CBK course)
 BUAD 400 Professional Development II (1 hour)
 MGMT 405 Business Ethics and Social Responsibility
 MGMT 485 Business Policy and Strategy (Capstone)

Accounting

Major

Minor

Combined BS/MBA Option

	For Major	For Minor
Hours Required in FSUBusiness Common Body of Knowledge:	33	6
Hours Required in Accounting:	27	12
Economics Elective:	3	0
Hours Required in CBK Outside FSUBusiness	18-19	0
Total Hours Required for Major/Minor	81-82	18

Summary of Requirements for Major/Minor in Accounting

Professors:

Bandura, R. Johnson,
Middleton, Robinson
(Chair), Shaffer

Associate Professors:

Groer, Ross

Assistant Professors:

Bao, Venezia

Lecturer:

Gilmore

- You must have at least a 2.0 grade point average in Accounting Department offerings in order to graduate.
- MBA courses for the combined BS in Accounting/ MBA option may be completed at the Frostburg campus or at the University System of Maryland at Hagerstown.

Major	Minor
1. FSUBusiness CBK: (33 hours)	
ACCT 211* Financial Accounting	ACCT 211* Financial Accounting
ACCT 212* Managerial Accounting	ACCT 212* Managerial Accounting
BLAW 291* Legal Environment of Business	
BUAD 105 Professional Development I	
MGMT 351* Management of Organizations	
MGMT 355* Operations Management	
MGMT 356* Leadership & Human Behavior	
MKTG 361* Principles of Marketing	
BUAD 400 Professional Development II	
MGMT 405* Business Ethics and Social Responsibility	
FINA 476* Financial Management	
MGMT 485* Business Policy and Strategy (Capstone)	
2. CBK Courses Outside FSUBusiness: (18-19 hours)	
Communication Studies (3 hours)	
CMST 102/112* Introduction to Human Communication	
Computer Science (3 hours)	
COSC 100/110* Introduction to Computer Science (Tech. Fluency)	
Economics (6 hours)	
ECON 201/211* Principles of Economics (Macro) (GEP Group D)	
ECON 202/212* Principles of Economics (Micro)	
Mathematics (6-7 hours)	
MATH 106* Algebra with Calculus for Business	
or MATH 220* Calculus for Applications I	
or MATH 236* Calculus I (Core Skill 3)	
MATH 209/219* Elements of Applied Probability and Statistics (Core Skill 3)	
or MATH 380* Introduction to Probability & Statistics	
3. Distribution Within Department: (24 hours)	
ACCT 311* Intermediate Accounting I	ACCT 311* Intermediate Accounting I
ACCT 312* Intermediate Accounting II	ACCT 312* Intermediate Accounting II
ACCT 313* Intermediate Accounting III	
ACCT 305* Accounting Systems	
ACCT 315 Cost Accounting	
ACCT 325 Auditing	
ACCT 401 Advanced Financial Accounting	
ACCT 420 Tax	
4. Elective Hours in Department: (3 hours)	
	(6 hours)
	From ACCT courses numbered higher than 300.
5. Economics Elective (3 hours)	
Three hours from ECON courses numbered higher than 212	

*You must receive a grade of "C" or better for this course to count toward major or minor.

Combined B.S. in Accounting/MBA Program

All CPA exam candidates in Maryland are required to have completed 150 hours of academic credit. Completion of this combined BS/MBA program will meet all educational requirements for CPA exam candidacy in Maryland. The combined BS/MBA program enables eligible students to complete FSU's B.S. in Accounting and MBA degree programs with 150 hours of academic credit. Separate pursuit of these degrees would require up to 168 hours of course work.

Graduates of FSU's accounting program who meet the eligibility requirements for the combined program will not have to complete the following FSU MBA courses:

- ACCT 540 Financial Accounting
- ACCT 546 Managerial Accounting
- BLAW 504 Political, Regulatory, and Legal Environment
- MGMT 501 Process and Production Management
- MGMT 502 Strategic Planning and Analysis
- MGMT 505 Business Ethics and Social Responsibility

Eligibility requirements for the combined BS/MBA:

- a) declared accounting major at FSU or FSU accounting graduate,
- b) a minimum score of 400 on the GMAT taken prior to the time of application,
- c) cumulative and major GPA of 2.5 or better at the time of application,
- d) application in the final semester of the senior year (by March 15 or October 15), and
- e) application for admission to the 150-hour program must first be approved by the Department of Accounting and then by the MBA program prior to the start of MBA classes.

Summary of Requirements for Combined BS in ACCT/MBA Option

1. Complete all requirements for baccalaureate degree in accounting listed above (120 hours)
2. Apply for the combined BS/MBA program (*see eligibility requirements listed above*)
3. After acceptance, complete the following MBA courses: (30 hours)
 - BMIS 607 Management Information Systems
 - ECON 511 Economics for Managers
 - FINA 610 Financial Management
 - MGMT 510 The Leadership Process
 - MGMT 512 Management Decision Analysis
 - MGMT 542 Organizational Behavior
 - MGMT 620 Strategic Human Resource Management
 - MGMT 680 Strategic Integration
 - MGMT 690 Strategic Change Management
 - MKTG 640 Marketing Management

Business Administration

Major

Minor

Concentrations in:

- finance
 - corporate finance
 - financial planning
- general management
- human resource management
- integrated business
- marketing
- small business/entrepreneurship

Department of Management and Department of Marketing and Finance

Professors:

Hawk, Lyons, McClive, Plucinski, Poorsoltan, Rahman, Shah, Shin, Singh, Tootoonchi (Chair, Department of Management), Wilkinson

Associate Professors:

Ashkeboussi, Ashley-Cotleur, McLellan

Assistant Professors:

Cheon, Foltos, Gaumer (Chair, Department of Marketing and Finance), Harrell-Cook, Offstein, Shore, Sigerstad

Instructors:

Higgins, Mattare

- All concentrations may be completed on the Frostburg campus. The concentrations in general management and integrated business may be completed at the University System of Maryland at Hagerstown.

	Major	Minor
Hours Required in FSUBusiness Common Body of Knowledge:	33	0
Hours Required in Concentration:	27	15
Hours Required in CBK Outside FSUBusiness:	18-19	6
Total Hours Required for Major/Minor:	78-79	21

Summary of Requirements for Major/Minor in Business Administration

Major	Minor
1. FSUBusiness CBK: <i>(33 hours)</i> ACCT 211* Financial Accounting ACCT 212* Managerial Accounting BLAW 291* Legal Environment of Business BUAD 105 Professional Development I MGMT 351* Management of Organizations MGMT 355* Operations Management MGMT 356* Leadership & Human Behavior MKTG 361* Principles of Marketing FINA 370* Corporate Finance BUAD 400 Professional Development II MGMT 405* Business Ethics & Social Responsibility MGMT 485* Business Policy and Strategy (<i>MGMT Capstone</i>)	
2. CBK Courses Outside FSUBusiness: <i>(18-19 hours)</i> Communication Studies <i>(3 hours)</i> CMST 102/112* Introduction to Human Communication Computer Science <i>(3 hours)</i> COSC 100/110* Introduction to Computer Science (<i>Tech. Fluency</i>) Economics <i>(6 hours)</i> ECON 201/211* Principles of Economics (Macro) (<i>GEP Group D</i>) ECON 202/212* Principles of Economics (Micro) Mathematics <i>(6-7 hours)</i> MATH 106* Algebra with Calculus for Business <i>or</i> MATH 220* Calculus for Applications I <i>or</i> MATH 236* Calculus I (<i>Core Skill 3</i>) MATH 209/219* Elements of Applied Probability and Statistics (<i>Core Skill 3</i>) <i>or</i> MATH 380* Introduction to Probability and Statistics	
3. Area of Concentration: <i>(27 hours)</i> <i>Majors must choose to concentrate in one of the following. Requirements for each are specified below:</i> s Finance (two tracks: corporate finance and financial planning) s General Management s Human Resource Management s Integrated Business s Marketing s Small Business/Entrepreneurship	
<i>(18 hours)</i> ACCT 211 Financial Accounting BUAD 100 Introduction to Business <i>or</i> BLAW 291 Legal Environment of Business MGMT 351 Management of Organizations MKTG 361 Principles of Marketing FINA 303 Principles of Finance <i>or</i> FINA 370 Corporate Finance <i>or</i> FINA 476 Financial Management MGMT 356 Leadership & Human Behavior <i>or</i> BMIS 320 Adv. Computer Applications in Business	
<i>(3 hours)</i> ECON 200 Basic Economics <i>or</i> ECON 201/211 Principles of Economics- (Macro) (<i>GEP Group D</i>)	

**You must receive a grade of C or better for this course to count toward major.*

Requirements for Concentration in Finance

1. **Core Courses** (51 - 52 hours):
Required of all majors in Business Administration.; listed above.
2. **Required Courses in Concentration** (9 hours):
FINA 375 Financial Institutions Management
FINA 475 Securities Investment
FINA 476 Financial Management
3. **Finance Tracks** (18 hours):
You must complete 18 hours in one of the following tracks:
 - a. **Corporate Finance Track**
FINA 477 International Financial Management
FINA 479 Financial Policy (*Capstone*)
Select four courses from among the following:
FINA 405 Short-term Financial Management
FINA 420 Entrepreneurial Finance
FINA 494 Internship in Finance
ACCT 311 Intermediate Accounting I
ACCT 312 Intermediate Accounting II
ACCT 313 Intermediate Accounting III
ACCT 330 Governmental and Nonprofit Accounting
ACCT 340 Financial Reporting Issues
ECON 305 Managerial Economics
ECON 401 International Finance
 - b. **Financial Planning Track**
FINA 301 Introduction to Personal Financial Planning
FINA 371 Insurance Planning and Risk Management
FINA 377 Retirement Income Planning
FINA 451 Estate Planning and Advanced Topics in Financial Planning (*Capstone*)
ACCT 420 Tax
Select one course from among the following:
FINA 381 Principles of Real Estate
FINA 494 Internship in Finance
CMST 300 Interpersonal Communication

Requirements for Concentration in General Management

1. **Core Courses** (51- 52 hours):
Required of all majors in Business Administration; listed above.
2. **Required courses in Concentration** (15 hours):
BMIS 320 Advanced Computer Applications in Business
BUAD 330 International Business
MGMT 357 Human Resources Management
MGMT 359 Quality Management
ACCT 315 Cost Accounting
or ECON 305 Managerial Economics
or FINA 476 Financial Management
3. **Elective Courses** (12 hours):
Four from among the following:
Any ACCT, ECON, MGMT, MKTG or FINA courses numbered 300 and above not used to meet CBK or concentration requirements
CMST 300 Interpersonal Communication
or CMST 322 Presentational Communication
or CMST 335 Organizational Communication

Requirements for Concentration in Human Resource Management

1. **Core Courses** (51 - 52 hours):
Required of all majors in Business Administration; listed above.
2. **Required courses in Concentration** (18 hours):
BMIS 320 Advanced Computer Applications in Business
BUAD 330 International Business
MGMT 357 Human Resources Management
MGMT 452 Staffing and Development
MGMT 456 Compensation Management
MGMT 457 Labor Relations
3. **Elective Courses** (9 hours):
Three from among the following:
Any ACCT, ECON, MGMT, MKTG or FINA courses numbered 300 and above not used to meet CBK or concentration requirements
CMST 300 Interpersonal Communication
or CMST 322 Presentational Communication
or CMST 335 Organizational Communication

Requirements for Concentration in Integrated Business

1. Core Courses (51 - 52 hours):

Required of all majors in Business Administration; listed above.

2. Required Courses in Concentration (6 hours):

BMIS 320* Advanced Computer Applications in Business
BUAD 330 International Business

3. Elective courses in Concentration (21 hours):

Choose seven courses from the following, with at least two courses from a minimum of three disciplines. However, Internship/Field Experience choices cannot exceed 6 credits total (i.e., only one 6-credit Internship/Field Experience or two 3-credit Internships/Field Experience choices will count). A 6-credit Internship/Field Experience choice counts as one course.

Accounting

ACCT 311* Intermediate Accounting I
ACCT 315 Cost Accounting or ACCT 325 Auditing
ACCT 420 Tax
ACCT 494 Internship in Accounting

Economics

ECON 305 Managerial Economics
ECON 306 Money and Banking
ECON 307 Government, Business, and Public Policy
ECON 494 Field Experience in Economics

Finance

FINA 375 Financial Institutions Management
FINA 420 Entrepreneurial Finance
FINA 475 Securities Investment
FINA 494 Internship in Finance

Management

MGMT 357 Human Resources Management
MGMT 359 Quality Management
MGMT 415 New Business Ventures
MGMT 494 Internship in Management

Marketing

MKTG 363 Advertising
MKTG 365 Principles of Selling
MKTG 366 Consumer Behavior
MKTG 494 Internship in Marketing

**You must receive a grade of C or better for this course to count toward major.*

Requirements for Concentration in Marketing

1. Core Courses (51 - 52 hours):

Required of all majors in Business Administration; listed above.

2. Required Courses in Concentration (15 hours):

MKTG 363 Advertising
MKTG 366 Consumer Behavior
MKTG 462 Marketing Research
MKTG 465 Marketing Strategies
MKTG 469 Marketing Plans Development (Capstone)

3. Elective Courses (12 hours):

Four (including at least two MKTG) from among the following:

MKTG 364 Merchandising
MKTG 365 Principles of Selling
MKTG 460 International Marketing
MKTG 466 Services Marketing
MKTG 467 Internet Marketing
MKTG 494 Internship in Marketing
ECON 460 Econometrics
GEOG 410 Locational Analysis
MGMT 359 Quality Management
or MGMT 415 New Business Ventures
or ACCT 315 Cost Accounting
or CMST 322 Presentational Analysis

Requirements for Concentration in Small Business/
Entrepreneurship**1. Core Courses (51- 52 hours):**

Required of all majors in Business Administration; listed above.

2. Required Courses in Concentration (21 hours):

BMIS 320 Advanced Computer Applications in Business
BUAD 330 International Business
MGMT 315 New Business Ventures
MGMT 357 Human Resources Management
MGMT 425 Entrepreneurial Business Plan
FINA 420 Entrepreneurial Finance
MKTG 366 Consumer Behavior

3. Elective Courses (6 hours):

Two from among the following:

Any ACCT, ECON, MGMT, MKTG or FINA courses numbered 300 and above not used to meet CBK or concentration requirements
CMST 300 Interpersonal Communication
or CMST 322 Presentational Communication
or CMST 335 Organizational Communication

Economics

Major

Business Concentration

Professors:

Dalton, Mizak, Neral, Stair

Associate Professor:

Anderson

Assistant Professors:Kiriazis (Chair),
Rossi

- The Concentration in Business Economics is recommended for students who intend to seek employment in the private sector and/or pursue graduate study in business.

	For Major
Hours Required in FSUBusiness Common Body of Knowledge:	33
Hours Required in Economics:	27
Hours Required in CBK Outside FSUBusiness:	18-21
Total Hours Required for Major:	78-81

Requirements for Major in Economics with Concentration in Business Economics

1. FSUBusiness CBK:*(33 hours)*

ACCT 211* Principles of Accounting
 ACCT 212* Managerial Accounting
 BLAW 291* Legal Environment of Business
 BUAD 105 Professional Development I
 MGMT 351* Management of Organizations
 MGMT 355* Operations Management
 MGMT 356* Leadership & Human Behavior
 MKTG 361* Principles of Marketing
 FINA 370* Corporate Finance
 BUAD 400 Professional Development II
 MGMT 405* Business Ethics and Social Responsibility
 MGMT 485* Business Policy and Strategy

2. CBK Courses Outside FSUBusiness:*(18-21 hours)***Economics** *(6 hours)*

ECON 201/211* Principles of Economics (Macro) (*GEP Group D*)
 ECON 202/212* Principles of Economics (Micro)

Communication Studies *(3 hours)*

CMST 102* Introduction to Human Communication

Computer Science *(3 hours)*COSC 100* Introduction to Computer Science (*Tech. Fluency*)**Mathematics** *(6 - 9 hours)*

MATH 106* Algebra with Calculus for Business *and* ECON 450* Quantitative Economics
or MATH 220* Calculus for Applications I
or MATH 236* Calculus I (*Core Skill 3*)
 MATH 209/219* Elements of Applied Probability and Statistics (*Core Skill 3*)
or MATH 380* Introduction to Probability and Statistics

3. Area of Concentration: *(27 hours)*

ECON 351* Intermediate Macro-Economics
 ECON 352* Intermediate Micro-Economics
 ECON 305 Managerial Economics
 ECON 400 International Trade
or ECON 401 International Finance
 ECON 407 Business Cycles and Forecasting
or ECON 460 Introduction to Econometrics
 ECON 491* Seminar in Economics (*Capstone*)

Select three of the following courses:

ECON 301 Labor Economics
 ECON 306 Money and Banking
 ECON 307 Government, Business, and Public Policy
 ECON 408 Urban and Regional Economics
 ECON 492 Internship Research Paper
 ECON 494 Field Experience in Economics

* Note: You must receive a grade of C or better for this course to count toward the major.

Economics

Major

Concentrations in

- public policy economics
- quantitative economics

Minor

Professors:

Dalton, Mizak, Neral, Stair

Associate Professor:

Anderson

Assistant Professors:

Kiriazis (Chair), Rossi

- All economics majors other than those with a business economics concentration must complete a common core curriculum. Students may major in economics without pursuing a specialized concentration or they may pursue a concentration in Business Economics, Public Policy Economics or Quantitative Economics.
- The economics major without specialized concentration is appropriate for students with a social science perspective. It provides excellent preparation for entry-level employment in the private or public sectors, as well as for law school or graduate school.
- The Concentration in Public Policy Economics is recommended for students who intend to seek employment in government or with other policy-oriented organizations.
- The Concentration in Quantitative Economics is recommended for students who intend to seek employment in economic consulting or forecasting and/or pursue graduate study in economics.
- A concentration in International Economics is available in the International Studies Major.

	For Major		For Minor	
	No Concentration	Public Policy Conc.	Quantitative Conc.	
Hours Required in Economics:	33-36	39-42	27-36	18
Hours Required in Other Departments:	6	6	10-19	6
Total Hours Required:	39-42	45-48	46	24

Summary of Requirements for Major/Minor in Economics

Major	Minor
1. Required Core Courses in Economics: <i>(18 hours)</i> ECON 201/211* Principles of Econ. (Macro) <i>(GEP Group D)</i> ECON 202/212* Principles of Econ. (Micro) ECON 351* Intermediate Macro-Economics ECON 352* Intermediate Micro-Economics ECON 407 Business Cycles and Forecasting <i>or</i> ECON 460 Introduction to Econometrics ECON 491* Seminar in Economics <i>(Capstone)</i>	<i>(12 hours)</i> ECON 201/211* Principles of Econ. (Macro) <i>(GEP Group D)</i> ECON 202/212* Principles of Econ. (Micro) ECON 351* Intermediate Macro-Economics ECON 352* Intermediate Micro-Economics
2. Required Core Courses in Other Departments: <i>(3 hours)</i> MATH 209/219* Elements of Applied Probability and Statistics <i>(Core Skill 3)</i>	<i>(3 hours)</i> MATH 209/219* Elements of Applied Probability and Statistics <i>(Core Skill 3)</i>
3. Other Courses: <i>(18-42 hours)</i> <i>Majors must choose from among the major in economics without specialized concentration, the public policy economics concentration or the quantitative economics concentration.</i>	<i>(9-10 hours)</i> MATH 236* Calculus I <i>(Core Skill 3)</i> <i>or</i> MATH 220* Calculus for Applications I <i>or</i> MATH 106* Algebra with Calculus for Business <i>Minors must also complete at least 6 additional credit hours in economics (excluding ECON 495) at the 300 or 400 level.</i>

Requirements for Major in Economics

without specialized concentration

- 1. Core Courses: (21 hours)**
Required of Economics majors; listed above.
- 2. Other Economics Courses: (15 hours)**
ECON 300 History of Economic Thought
Students must also complete 12 additional elective credit hours in economics (excluding ECON 495) at the 300 or 400 level, of which at least 6 hours must be at the 400 level.
- 3. Courses in Other Departments: (3-6 hours)**
MATH 236* Calculus I *(Core Skill 3)*
or MATH 220* Calculus for Applications I
or MATH 106* Algebra with Calculus for Business *and* ECON 450* Quantitative Economics⁺

* Note: You must receive a grade of C or better for this course to count toward the major/minor.

⁺Note: If this option is selected, ECON 450 may not be used to satisfy an Economics elective.

Requirements for Major in Economics with Concentration in Quantitative Economics

1. Core Courses: (21 hours)

Required of Economics majors; listed above.

2. Other Economics Courses: (18 hours)

ECON 300 History of Economic Thought

or ECON 303 American Economic History

ECON 407 Business Cycles and Forecasting or ECON 460 Introduction to Econometrics (*whichever one is not taken as a required core course*)

ECON 450 Quantitative Economics

Students must also complete at least 9 additional elective credit hours in economics (excluding ECON 495) or Mathematics (excluding MATH 495) at the 300 or 400 level.

3. Courses in Other Departments: (7 hours)

MATH 236* Calculus I (Core Skill 3)

MATH 350 Linear Algebra I

Requirements for Major in Economics with Concentration in Public Policy Economics

1. Core Courses: (21 hours)

Required of Economics majors; listed above.

2. Other Economics Courses: (21 hours)

ECON 307 Government, Business, and Public Policy

ECON 404 Public Sector Economics

ECON 300 History of Economic Thought

or ECON 303 American Economic History

ECON 309 Comparative Economic Systems

or ECON 405 Economics of Developing Countries

Select four of the following courses:

ECON 301 Labor Economics

ECON 306 Money and Banking

ECON 400 International Trade

ECON 401 International Finance

ECON 407 Business Cycles and Forecasting

ECON 408 Urban and Regional Economics

ECON 410 Resource and Environmental Economics

ECON 460 Introduction to Econometrics

ECON 492 Internship Research Paper

ECON 494 Field Experience in Economics

3. Courses in Other Departments: (3-6 hours)

MATH 236* Calculus I (Core Skill 3)

or MATH 220* Calculus for Applications I

or MATH 106* Algebra with Calculus of Business

and ECON 450* Quantitative Economics

Finance

Minor

Coordinator:

Dr. Hung Sik "Allen" Shin
Professor, Department of
Marketing and Finance

- You cannot earn the minor in finance if you are completing a major in business administration with a concentration in finance.
- You cannot major in finance.

For Minor

Total Hours Required: 18

You should consider the minor in finance if you are completing a major not subject to the requirements of the FSUBusiness common body of knowledge—CBK (primarily majors outside the College of Business). This minor will give you the opportunity to learn the basic concepts and principles of finance, both for personal benefit and to explore a career in the finance profession.

Summary of Requirements for Minor in Finance

ACCT 211 Financial Accounting
ECON 200 Basic Economics *or* ECON 201/211 Principles of Economics (Macro)
FINA 303 Principles of Finance

Select three courses from among the following:

FINA 301 Introduction to Personal Financial Planning
FINA 370 Corporate Finance
FINA 371 Insurance Planning and Risk Management
FINA 375 Financial Institutions Management
FINA 377 Retirement Income Planning
FINA 381 Principles of Real Estate
FINA 405 Short-term Financial Management
FINA 420 Entrepreneurial Finance *or* FINA 476 Financial Management
FINA 475 Securities Investment
FINA 477 International Financial Management

Financial Services

Minor

Coordinator:

Dr. Hung Sik "Allen" Shin
Professor, Department of
Marketing and Finance

- You cannot earn the minor in financial services if you are completing the major in business administration with a concentration in finance.
- You cannot major in financial services.

For Minor

Total Hours Required: 18

You should consider the minor in financial services if you are majoring in another discipline within the College of Business that requires you to complete the FSUBusiness common body of knowledge (CBK). You need to be prepared to take advanced finance courses.

Summary of Requirements for Minor in Financial Services

FINA 370 Corporate Finance *or* FINA 476 Financial Management

Select five courses from among the following:

FINA 301 Introduction to Personal Financial Planning
FINA 371 Insurance Planning and Risk Management
FINA 375 Financial Institutions Management
FINA 377 Retirement Income Planning
FINA 381 Principles of Real Estate
FINA 405 Short-term Financial Management
FINA 420 Entrepreneurial Finance *or* FINA 476 Financial Management
(*if not selected to meet the requirement listed above*)
FINA 475 Securities Investment
FINA 477 International Financial Management

Management

For Minor

Hours Required in Management:	15
Hours Required in Other Departments	3
Total Hours Required	18

Minor

Summary of Requirements for Minor in Management

Professors:

Hawk, Lyons, McClive,
Poorsoltan, Rahman, Shah,
Tootoonchi (Chair,
Department of Management)

Associate Professor:

McLellan

Assistant Professors:

Harrell-Cook, Offstein,
Sigerstad

Instructor:

Higgins, Mattare

- Only courses in which a grade of C or better is earned may count towards satisfaction of minor requirements.
- The Department of Management also offers concentrations in general management, human resource management and small business/entrepreneurship as specialties in the business administration major. Concentrators in these areas cannot minor in management.
- You cannot major in Management.

1. Required Courses:

(9 hours)

BUAD 100 Introduction to Business
or ACCT 211 Financial Accounting
or ECON 200, Basic Economics (GEP Group D)
or ECON 201/211 Principles of Econ (Macro) (GEP Group D)
MGMT 351 Management of Organizations
MGMT 405 Business Ethics and Social Responsibility

2. Elective Courses

(9 hours):

Select from:

MGMT 315 New Business Ventures
MGMT 355 Operations Management
MGMT 356 Leadership and Human Behavior
MGMT 357 Human Resources Management
MGMT 359 Quality Management
MGMT 452 Staffing and Development
MGMT 494 Internship in Management (3 credits maximum)

Marketing

For Minor

Hours Required in Marketing:	12
Hours Required in Other Departments	6
Total Hours Required	18

Minor

Summary of Requirements for Minor in Marketing

Minor

Professors:

Plucinski, Shin, Singh,
Wilkinson

Associate Professors:

Ashkeboussi, Ashley-Cotleur

Assistant Professors:

Cheon, Foltos, Gaumer
(Chair, Department of
Marketing and Finance)

- Only courses in which a grade of C or better is earned will count towards satisfaction of minor requirements.
- Not open to students completing the marketing concentration in the business administration major.
- You cannot major in Marketing.

1. Required Courses:

(9 hours)

BUAD 100 Introduction to Business
or ACCT 211 Financial Accounting
ECON 201/211 Principles of Economics (Macro)
MKTG 361 Principles of Marketing

2. Elective Courses

(9 hours):

Choose three of the following:

MKTG 363 Advertising
MKTG 365 Principles of Selling
MKTG 366 Consumer Behavior
MKTG 465 Marketing Strategies

College of Education

Programs offered in the College of Education

Athletic Training
Coaching
Early Childhood/Elementary Education
Elementary Education
K-12 Programs
Secondary Programs
Secondary/Adult Generic Special Education
Exercise & Sport Science
Health & Physical Education
Health Promotion
Recreation & Parks Management

Mission

The College of Education is committed to preparing professionals who provide excellent instruction, service, and leadership to a diverse and global community.

Vision

The vision of the College of Education at Frostburg State University is to build upon its rich history of teacher education and position itself as a national exemplar of quality professional preparation programs.

Goals

Goals for the College of Education are:

1. To provide programs of exceptional quality based on national standards that meet the needs of the state and region.
2. To assure that all graduates are capable of providing leadership in their professions.
3. To assure that all graduates are dedicated professionals committed to the success of all their students or clients.
4. To assure that all graduates are fully prepared for their professional responsibilities.
5. To assure that all graduates can assess their own professional practice and make changes based on their assessments.
6. To instill in graduates a sense of advocacy for their students, clients, community, and profession.
7. To encourage and help develop a sense of collaboration in our graduates.
8. To assure that graduates are prepared to meet the challenges of a changing global community.
9. To continuously assess our programs according to professional standards and use the findings to enhance our programs.
10. To provide graduates with an appreciation for the environment and the value of a healthy, quality life-style.

Teacher Education Program Characteristics and Features

The Educational Unit subscribes to the motto - Linked Hands, Heads, and Hearts: Building Powerful Learning Communities. Performance assessments are used to affirm that graduates have met the Unit Outcomes by exhibiting characteristics that demonstrate they are prepared to be Dedicated Professionals, Instructional Leaders, Continuous Assessors, Educational Advocates, Collaborative Bridge Builders, and Reflective Decision Makers. The following programmatic features are among those which identify the uniqueness of this educational unit and lead to the success of its candidates: programs are based on proven national and state standards; candidates must have a strong background in content areas; teaching skills are developed in multiple field experiences using the Professional Development School model; candidates develop instructional strategies to maximize the learning for all students, including those of diversity and those with special needs; candidates are helped to develop or enhance dispositions that are consistent with codes of ethics and professionalism; all programs use technology to improve instruction and teach candidates to apply technology to their own instruction.

FSU's Teacher Education Report Card

Contextual Information

Total number of students admitted into teacher preparation, all specializations, AY 2005-2006	737
Number of students in supervised student teaching	188
Number of faculty members who supervised student teachers:	
Full-time faculty in professional education	15
Part-time faculty in professional education but full-time in the institution	4
Part-time faculty in professional education, not otherwise employed by the institution	11
Total faculty student teaching supervisors	30
Student teacher/faculty ratio	6.3
The average number of student teaching hours per week required*	35
The total number of weeks of supervised student teaching required	20
Average total number of hours required	700

*Student teaching varies by program with most interns spending 20 weeks in the school.

Individual Assessments completed by 10 or more students

Type of Assessment	Frostburg State University			Statewide		
	Number Taking Assessment	Number Passing Assessment	Institutional Pass Rate	Number Taking Assessment	Number Passing Assessment	Statewide Pass Rate
Professional Knowledge						
ELEM ED CONTENT AREA EXERCISES	122	122	100%	1080	1072	99%
Academic Content Areas						
ELEMENTARY ED CONTENT KNOWLEDGE	122	122	100%	1281	1277	100%
EARLY CHILDHOOD EDUCATION	55	55	100%	264	261	99%

Aggregate and Summary Institutional-level Pass-rate Data: Regular Teacher Preparation Program
Academic Year: 2005-2006 *Number of Program Completers: 174*

Type of Assessment ²	Number Taking Assessment ³	Number Passing Assessment ⁴	Institutional Pass Rate	Statewide Pass Rate
Aggregate - Basic Skills	172	171	99%	99%
Aggregate - Professional Knowledge	168	168	100%	98%
Aggregate - Academic Content Areas**	171	170	99%	99%
Aggregate - Other Content Areas***	18	14	78%	87%
Summary Totals and Pass Rates⁵	174	172	99%	97%

See College of Education web site for detailed report.

**Math, English, Biology, etc.

*** Career/Technical Education, Health Educations, etc.

¹ The number of program completers found, matched and used in the passing rate calculation will not equal the sum of the column labeled "Number Taking Assessment" since a completer can take more than one assessment.

² Institutions and/or States did not require the assessments within an aggregate where data cells are blank.

³ Number of completers who took one or more tests in a category and within their area of specialization.

⁴ Number who passed all tests they took in a category and within their area of specialization.

⁵ Summary Totals and Pass Rate: Number of completers who successfully completed one or more tests across all categories used by the state for licensure and the total pass rate.

Athletic Training

Major

Director:

John Wright, Assistant Professor, Department of Health and Physical Education

Assistant Professor:

Wright

Head Athletic Trainer:

Zaloga

Assistant Athletic Trainers:

Schoenly, Wright

- The Athletic Training Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).
- Special entrance requirements are designed to insure that students are capable of completing the rigorous curriculum and will have the ability to pass the Board of Certification (BOC) exam for athletic training.
- You must pass the BOC exam to become a Certified Athletic Trainer.

	For Major
Hours Required in HPE:	54
Hours Required in Other Departments:	27
Total Hours Required	81

Admission Requirements

To be considered for full admission into the Athletic Training Education Program (ATEP), the student must meet each of the following criteria:

1. Completion of a minimum of 28 semester hours. Transfer students are required to have prerequisite course work approved by the Program Director.
2. A minimum 2.5 overall GPA.
3. A minimum of a "C" grade in each of the following courses:
 - a. BIOL 149 General Biology
 - b. HEED 103 Foundations of Exercise & Sport Science
 - c. HEED 206 Introduction to Athletic Training
4. Satisfactory completion of 50 observational hours in the FSU athletic training room. The student must make arrangements with the Program Director prior to starting observation.
5. A completed formal application for admission into the ATEP including an essay.
6. Two completed recommendation forms from non-Athletic Training faculty members.
7. Completion of a formal interview with the ATEP selection committee.
8. Signed copy of the Technical Standards for admission into the Athletic Training Program.

The total number of students that can be accepted into the program is dependent on the availability of clinical placements. Meeting the criteria listed in the section on the Application Review Process does not guarantee acceptance into the Athletic Training Program.

In addition to the previous criteria, the student must complete a physical examination that includes each of the following:

- Clearance on TB testing
- Meningococcal vaccination
- Hepatitis B vaccination

Application Review Process

1. Students who have met the above minimum requirements will be evaluated on the following scale:

Overall GPA	25 points possible
Prerequisite GPA	25 points possible
Faculty Recommendations	20 points possible
Interview	15 points possible
Application/Essay	15 points possible
	100 points possible

2. The following scale will be used to evaluate the quality of the applicant.

100 – 75 points	Student recommended for full admission
74 - 70 points	Student <i>provisionally admitted</i> for one academic year (if clinical placements available)
Below 70 points	Student rejected for admission/may reapply next academic year
Provisional Admission	Student is admitted into program with the stipulation that he/she must rectify deficiencies identified by the ATEP admission committee by the end of the next academic year

Maintaining Advanced Good Standing in Athletic Training Education Program

Once admitted, the Athletic Training student must maintain the following to remain fully admitted:

1. A minimum overall GPA of 2.5
2. A minimum grade of "C" in each of the required courses in the major
3. Current certifications in First Aid and CPR
4. Attendance at the annual OSHA bloodborne pathogens presentation

Students who fail to meet 1 and/or 2 have one academic year to correct the deficiency before being dismissed from the ATEP.

Violations of 3 and/or 4 will result in an immediate suspension of clinical experiences until the student is in compliance.

Summary of Requirements for Major in Athletic Training

Major

1. HPE Courses:*(54 hours)*

HEED 103 Foundations of Exercise & Sport Science
 HEED 200 Nutrition
 HEED 206 Introduction to Athletic Training
 HEED 210 Athletic Taping and Bracing Techniques
 HEED 222 Emergency Medical Techniques in Athletic Training
 HEED 223 Clinical Experiences in Athletic Training I
 HEED 306 Organization & Administration of Exercise & Sport Science
 HEED 318 Orthopedic Assessment I Upper Extremity
 HEED 319 Orthopedic Assessment II Lower Extremity
 HEED 320 Pharmacology and General Medical Conditions
 HEED 322 Clinical Experiences in Athletic Training II
 HEED 323 Clinical Experiences in Athletic Training III
 HEED 408 Therapeutic Modalities in Sports Medicine
 HEED 413 Rehabilitation Techniques in Sports Medicine
 HEED 422 Clinical Experiences in Athletic Training IV (*Capstone*)
 HEED 423 Clinical Experiences in Athletic Training V (*Capstone*)
 PHEC 175 Foundations of Resistance Training
 PHEC 303 Biomechanics for Exercise and Sport Science
 PHEC 401 Physiology of Exercise
 PHEC 410 Advanced Strength Training
 PHEC 411 Evaluation and Prescription in Fitness
 PHEC 435 Lifespan Health and Fitness

2. Courses in Other Departments:*(27 hours)*

BIOL 149 General Biology (*GEP Group C*)
 BIOL 201 Anatomy & Physiology I
 BIOL 202 Anatomy & Physiology II
 MATH 209 Elements of Applied Probability and Statistics (*Core Skill 3*)
 PHIL 101 Introduction to Philosophy (*GEP Group B*)
 PHIL 313 Biomedical Ethics
 PSYC 150 General Psychology (*GEP Group D*)
 PSYC 430 Health Psychology

Coaching

Minor

Coordinator:

Troy Strieby, Assistant
Professor, Department of
Health and Physical
Education

Professors:

R. Lewis, Surgent

Assistant Professors:

Strieby, Wright

Head Athletic Trainer:

Zaloga

- Field experience required in school program. Recommended during senior year.
- You cannot major in coaching.

For Minor

Hours Required in HPE:

22

Hours Required in Other Departments:

0

Total Hours Required:

22

Summary of Requirements for Minor in Coaching

Minor

All of the following:

(16 hours)

HEED 305 Care and Prevention of Athletic Injuries

PHEC 175 Foundations of Resistance Training

PHEC 405 Psycho-Social Foundations of Sport

PHEC 412 Principles of Coaching

PHEC 420 Sports Law and Ethics

PHEC 481 Field Experience in Coaching

Two from among:

(6 hours)

PHEC 360 Theory of Track & Field

PHEC 361 Theory of Football

PHEC 362 Theory of Baseball

PHEC 364 Theory of Basketball

PHEC 365 Theory of Volleyball

PHEC 366 Theory of Soccer

PHEC 369 Theory of Softball

Educational Professions

Professors:

Azzi, Bingman, Cushall,
Dow, T. Palardy, Wheaton,
K. Witmer

Associate Professors:

Crawford, Finan, Golden
(Chair), Holmes, B.
Ornstein, Rotruck,
Schweiker-Marra, O.
Simmons, Snyder, Wakefield
(Associate Chair)

Assistant Professors:

Boayue, Childs, De La Paz,
Diehl, James, S. Pack,
Stephenson, J. Welsch

Instructors:

Milleson, Tobery-Nystrom

- You may elect to major in one of two areas: Early Childhood/Elementary Education or Elementary Education.
- All elementary majors are required to have an area of specialization.
- Professional education sequences for secondary and K-12 programs are provided in cooperation with other departments (see separate sections of this catalog).
- You cannot minor in education.
- An internship is required.
- You must complete application for each phase of the program. The requirements for entry in phases are described in this section.
- Further information is available in the Undergraduate Teacher Education Handbook available in Framptom Hall 220.

Teacher Education Programs

The Educational Professions Department offers an Early Childhood/Elementary major leading to eligibility for certification in nursery school through grade 6 and middle school and an Elementary Education major leading to eligibility for certification in grades 1-6 and middle school.

The Educational Professions Department also offers approved teacher education programs leading to eligibility for certification in Secondary Education (biology, chemistry, English, foreign languages - French and Spanish, earth science, mathematics, physics, social studies), for grades 7-12 as well as middle school depending on subject area, and K-12 Education (art, music, health and physical education) for grades kindergarten-12. Requirements for these majors and programs are listed in the catalog under Education: Early Childhood/Elementary Program, Elementary Program, Secondary School Programs, K-12 Programs and departments offering the areas of content specialization.

The teacher education programs are committed to preparing professionals who are able to provide quality instruction, service, and leadership in a global community. The conceptual framework upon which each program rests focuses on the knowledge, skills and dispositions needed to develop powerful learning communities. The university, the public schools, parents and other community members link together using their hands, heads and hearts to prepare the finest pre-service teacher candidates. Educational Professions' graduates are expected to be dedicated professionals, instructional leaders, continuous assessors, educational advocates, collaborative bridge-builders and reflective decision-makers.

Eligibility for Teacher Certification in Maryland

For eligibility for certification in the Early Childhood/Elementary program or the Elementary program, candidates must complete the approved program requirements as listed, university graduation requirements and Praxis testing requirements. Passing Praxis II, demonstrating the knowledge and skills of a specialized content area at the Maryland State Department of Education prescribed score, is required to gain teacher certification. Therefore, candidates must take Praxis II to become program completers and to graduate in an approved teacher education program. Completion of K-12 teacher education programs and the secondary professional sequence also requires taking Praxis II.

Candidates may apply for a certificate of eligibility directly to the Maryland State Department of Education or may apply for a Standard Professional Certificate I through the personnel office of a county offering employment.

Eligibility for Teacher Certification in Other States

If candidates wish to gain a teaching license in a state other than Maryland, candidates need to check the certification requirements in the state(s) for the program in which they wish to teach, including the passing standard for Praxis in that state. Having a Maryland certificate of eligibility may prove helpful in the out-of-state certification effort.

Approved Program

Since NCATE (National Council for Accreditation of Teacher Education) and the Maryland State Department of Education have approved FSU's teacher education programs, the Department of Educational Professions authorizes the Registrar's Office to affix an approved program stamp on your official transcript upon satisfactory completion of all requirements.

Special Admission Criteria

In addition to the requirements set forth in the summaries of requirements for majors in Early Childhood/Elementary and Elementary Education, the Professional Education Sequences for Secondary Programs, and K-12 Programs (found in separate sections of this catalog), applicants must meet the following phase admission requirements in order to be accepted into and complete an education program. Application deadlines for Phase I, Phase II and Phase III for all candidates, including transfers, are established in October for spring semester and in May for fall semester by the Office of Unit Assessment.

Accreditation

Teacher Education Programs are accredited by the State of Maryland under the Redesign for Teacher Education and by the National Council for Accreditation of Teacher Education. Further, the education programs are recognized by 14 professional content area associations which offer national recognition for being compliant with national standards. The University will continue to update education programs and discipline requirements in the major or specialization to meet national and state standards and directives, making substitutions when required. Check with the Department of Educational Professions for current information.

Pre-Phase Requirement

1. EDUC 100 students are required to be certified free of TB prior to fieldwork.

Phase I Admission Requirements (Program Entrance)

1. Completion of at least 45 credit hours.
2. Cumulative GPA of at least 2.5 (including all grades from transfer institutions).
3. Passing grade on PRAXIS I as established by the state of Maryland.
4. C or above in ENGL 101/111.
5. Twenty (20) documented hours of working with diverse populations.*
6. Declaration of a major. Transfer students must indicate intended major at transfer institutions.
7. Successful completion of technology inventory.*
8. Certified free of TB.
9. Completion of consent and release form. **

Additional Phase I Requirements for Early Childhood/Elementary and Elementary Education Majors

1. C or above in MATH 206.
2. Grade of C or above in EDUC 100.
3. Declaration of specialization.

Additional Phase I Requirements for Secondary and K-12 Majors

1. C or above in Core Skill 3 (Math).
2. Grade of C or above in EDUC 100 (Secondary only).

Phase II Admission Requirements

1. Completion of at least 60 credit hours (Junior standing).
2. Cumulative GPA of at least 2.5 (including final grade point averages from transfer institutions).
3. C or better in each of the Phase I courses designated by program.
4. Cumulative GPA of 2.5 in each of the Phase I courses designated by program.
5. GPA of 2.5 in major (K-12/secondary only).
6. Grade of P in EDUC 200.
7. Grade of C or better in ENGL 308 or equivalent.
8. Completion of at least one course in each of groups A, B, C and D of the GEP.
9. Positive recommendation of advisor.
10. Seventy-five percent or 18 credits of content major or specialization completed with study plan submitted to the Office of Unit Assessment.
11. Grade of C or better in MATH 207 (ECE/ELEM and ELEM majors).

Admission Requirements for Professional Development Schools

1. Successful completion of EDUC 307 (field work). (ECE/ELEM and ELEM majors)
2. Cumulative GPA of at least 2.5.
3. GPA of 2.5 in major with no grade less than C in Block I courses.
4. Successful completion of a collaborative entrance interview into a PDS.

Phase III Admission Requirements

1. Completion of at least 90 credit hours (senior standing).
2. Cumulative GPA of at least 2.60.
3. GPA of at least 2.75 in all required education courses.
4. GPA of at least 2.75 in content major or area of specialization.
5. Grade of C or better in each Phase II course.

Special Note:

- If you complete all three Educational Technology courses (EDUC 346, 447, 448) with grades of C or better in each course, you will fulfill the University's technology fluency requirement

* According to departmental format.

**Confirming that candidate is free of convictions that would disqualify him/her from obtaining certification in Maryland.

Early Childhood/Elementary Education

Major

Professors:

Azzi, Bingman, Cushall,
Dow, T. Palardy, Wheaton,
K. Witmer

Associate Professors:

Finan, Golden (Chair),
Holmes, B. Ornstein,
Rotruck, Schweiker-Marra,
O. Simmons, Snyder,
Wakefield (Associate
Chair)

Assistant Professors:

Boayue, Childs, De La Paz,
Diehl, S. Pack,
Stephenson, J. Welsch

Instructors:

Milleson, Tobery-Nystrom

- The requirements in numbers 1-4 list specific hours required in other departments. These requirements include but go beyond the University GEP.
- You must complete the 24 hour early childhood specialization.
- You must complete application for each phase of the program.
- The requirements for entry into phases are listed in the Educational Professions section of this catalog.

6. Successful completion of Phase II field work.
7. Approval of Program Coordinator.
8. Verification of taking PRAXIS II content knowledge and pedagogy tests required by the Maryland State Department of Education.

Program Exit Requirements

- Successful presentation of a portfolio that meets institutional, Maryland state, and national standards.

	For Major
Hours Required in Education:	72
Hours Required in Other Departments:	60
Total Hours Required:	132

Summary of Requirements for Major in Early Childhood/Elementary Education

Directed academic course requirements within and beyond the University GEP

Major

1. Completion of Core Skills: (9 hours)

2. Specific Hours for Early Childhood/Elementary Education Majors: (27 hours)

Fine Arts Component (3 hours; satisfies GEP Group A)

ART 110 Visual Imagery

English (Literature) (3 hours; GEP Group B)

ENGL 150/250 Intro. to Literature

History (3 hours; GEP Group B)

HIST 100/111 The Contemporary World in Historical Perspective

Mathematics (9 hours; 3 hours satisfy Core Skill 3)

MATH 206 Problem Solving for Elementary Teachers I

MATH 207 Problem Solving for Elementary Teachers II

MATH 209 Elements of Applied Probability and Statistics (Core Skill 3)

or MATH 102 College Algebra (Core Skill 3)

Natural Science (12 hours; at least 8 satisfy GEP Group C)

a. BIOL 109 Human Biology and the Environment or BIOL 149 General Biology I

b. PHYS 203 Physical Science

c. 4 hour lab science elective - GEP recommended

Social Science (3 hours; GEP Group D)

GEOG 104 Human Geography

3. Additional GEP Requirements: (12 hours)

a. Social Science (3 hours minimum – GEP Group D) (Check specialization for GEP possibilities).

b. IDIS 150/151 First-Year FSU Colloquium (required) and IDIS 350/351 Advanced FSU Colloquium or select one additional Modes of Inquiry course from Groups A-D. You may select a GEP 4-credit science course for the third science course required for Early Childhood/Elementary majors or check specialization for GEP possibilities.

c. Identity and Difference (3 hours; GEP Group F) (Check specialization for GEP possibilities).

4. Professional Education Courses Required Prior to Entrance to Phase III: (6 hours)

MUSC 350 Music and Creative Interaction for the Elementary Classroom (3)

PHEC 309 Health and Physical Education for the Elementary Classroom (3)

5. Specialization (24 hours; 2 courses satisfy GEP)

a. ART 110 Visual Imagery (3 hours satisfy GEP Group A)

b. PSYC 150/151 General Psychology (3 hours satisfy GEP Group D)

c. PSYC 210 Child Development

- Consider a double major in Liberal Studies (see the major description in this catalog).
 - The Early Childhood/Elementary Education major (early childhood specialization) can be completed on the Frostburg campus and, in cooperation with area community colleges, at the University System of Maryland at Hagerstown.
- d. EDUC 290 Field Experiences in Education (3 hours required during Phase I. Proposal written during ECED 293)
 - e. All of the following (12 hours)
 - ECED 150 Early Childhood Foundations (taken Pre-Phase I)
 - ECED 293 Early Childhood Learning Environment, Materials and Methods (taken Pre-Phase I after ECED 150)
 - ECED 431 Early Childhood Education Curriculum Development, Implementation and Assessment (taken during Block II)
 - ECED 443 Adults in the Child's World (taken during Block I)
- 6. Professional Education Courses Required Prior to or Concurrent with Phase I: (4 hrs.)**
- EDUC 100 Career Analysis in Education (1)
 - EDUC 201 Students, Teachers, and Learning Environments (3)
- 7. Professional Education Sequence: (53 hours)**
- PHASE I (11 hours)**
- EDUC 200 Phase I Teaching and Professional Assessment Laboratory (1)
 - EDUC 202 Foundations of Learning and Instruction (3)
 - EDUC 346 Educational Technology Laboratory I (1)
 - EDUC 376 Special and Multicultural Education (3)
 - REED 323 Process and Acquisition of Reading (3)
- PHASE II, Block 1 (14 hours)**
- EDUC 447 Educational Technology Laboratory II (1)
 - ELED 307 Block 1 Clinical and Professional Assessment Component (1)
 - ELED 471 Mathematics Curriculum, Methods and Assessment (3)
 - ELED 474 Science Curriculum, Methods and Assessment (3)
 - ELED 475 Social Studies Curriculum, Methods and Assessment (3)
 - REED 473 Reading Instruction (3)
- PHASE II, Block 2 (13 hours)**
- EDUC 448 Educational Technology Laboratory III (1)
 - REED 420 Assessment for Reading Instruction (3)
 - REED 425 Materials and Motivations for Reading (3)
 - ELED 494 Teaching Internship I: N-8 (6)
- PHASE III (15 hours)**
- EDUC 422 Leadership Seminar N-8*(3) (Capstone)
 - ELED 495 Teaching Internship II: N-8 (12) (Capstone)
- 8. Other Graduation/Program Exit Requirements**
- a. Successful presentation of a portfolio that meets institutional, Maryland state, and national standards.
 - b. Verification of taking PRAXIS II content knowledge and pedagogy tests required by the Maryland State Department of Education (before Phase III).

Elementary Education

Major

Professors:

Azzi, Bingman, Cushall,
Dow, T. Palardy, Wheaton,
K. Witmer

Associate Professors:

Finan, Golden (Chair),
Holmes, B. Ornstein,
Rotruck, Schweiker-Marra,
O. Simmons, Snyder,
Wakefield (Associate Chair)

Assistant Professors:

Boayue, Childs, De La Paz,
Diehl, S. Pack, Stephenson,
J. Welsch

Instructors:

Milleson, Tobery-Nystrom

- The requirements in numbers 1-3 at right list specific hours required in other departments. These requirements include but go beyond the University GEP.
- You must complete an approved 24 hour specialization.
- You must complete application for each phase of the program.
- The requirements for entry into phases are described in the Educational Professions section of this catalog.
- Consider a double major in Liberal Studies (see the major description in this catalog).

	For Major
Hours Required in Education:	57
Hours Required in Other Departments:	75
Total Hours Required:	132

Summary of Requirements for Major in Elementary Education

Directed academic course requirements within and beyond the University GEP

Major

1. Completion of Core Skills: (9 hours)

2. Specific Hours for Elementary Education Majors: (27 hours)

Fine Arts Component (3 hours; satisfies GEP Group A)

ART 110 Visual Imagery

English (Literature) (3 hours; GEP Group B)

ENGL 150/250 Intro. to Literature

History (3 hours; GEP Group B)

HIST 100/111 The Contemporary World in Historical Perspective

Mathematics (9 hours; 3 satisfy Core Skill 3)

MATH 206 Problem Solving for Elementary Teachers I

MATH 207 Problem Solving for Elementary Teachers II

MATH 209 Elements of Applied Probability and Statistics (Core Skill 3)
or MATH 102 College Algebra (Core Skill 3)

Natural Science (12 hours; at least 8 satisfy GEP Group C)

a. BIOL 109 Human Biology and the Environment or BIOL 149 General Biology I

b. PHYS 203 Physical Science

c. 4 hour lab science elective - GEP recommended

Social Science (3 hours; GEP Group D)

GEOG 104 Human Geography

3. Additional GEP Requirements: (12 hours)

a. Social Science (3 hours minimum — see GEP Group D)

b. IDIS 150/151 First-Year FSU Colloquium (required) and IDIS 350/351 Advanced FSU Colloquium or select one additional Modes of Inquiry course from Groups A-D. *You may select a 4-credit GEP science course for the third science course required for Elementary majors or check specialization for GEP possibilities.*

c. Identity and Difference, GEP Group F (3 hours). Check specialization for GEP possibilities.

4. Professional Education Courses Required Prior to Entrance to Phase III: (6 hours)

MUSC 350 Music and Creative Interaction for the Elementary Classroom (3)

PHEC 309 Health and Physical Education for the Elementary Classroom (3)

5. Specializations (24 hours, 2 courses count for GEP)

A 24 hour specialization must be completed in one of the following areas: Mathematics, General Science, Social Studies, Language Arts or an Approved Individualized Specialization. Requirements for each specialization are available in the Department of Educational Professions.

6. Professional Education Courses Required Prior to or Concurrent with Phase I: (4 hours)

EDUC 100 Career Analysis in Education (1)

EDUC 201 Students, Teachers, and Learning Environments (3)

7. Professional Education Sequence (53 hours)

PHASE I (11 hours)

EDUC 200 Phase I Teaching and Professional Assessment Laboratory (1)

EDUC 202 Foundations of Learning and Instruction (3)

EDUC 346 Educational Technology Laboratory I (1)

EDUC 376 Special and Multicultural Education (3)

REED 323 Process and Acquisition of Reading (3)

PHASE II, Block 1 (14 hours)

EDUC 447 Educational Technology Laboratory II (1)

ELED 307 Block 1 Clinical and Professional Assessment Component (1)

ELED 471 Mathematics Curriculum, Methods and Assessment (3)
 ELED 474 Science Curriculum, Methods and Assessment (3)
 ELED 475 Social Studies Curriculum, Methods and Assessment (3)
 REED 473 Reading Instruction (3)

PHASE II, Block 2 (13 hours)

EDUC 448 Educational Technology Laboratory III (1)
 ELED 494 Teaching Internship I: N-8 (6)
 REED 420 Assessment for Reading Instruction (3)
 REED 425 Materials and Motivations for Reading (3)

PHASE III (15 hours)

EDUC 422 Leadership Seminar N-8 (3) (*Capstone*)
 ELED 495 Teaching Internship II: N-8 (12) (*Capstone*)

8. Other Internship Requirements

Students wishing to have an internship placement in a middle school must take EDUC 445 Middle School Curriculum Methods (3 hours) during the semester in which they are enrolled in Phase II Block I.

9. Other Graduation/Program Exit Requirements

- Successful presentation of a portfolio that meets institutional, Maryland state, and national standards.
- Verification of taking Praxis II content knowledge and pedagogy tests required by the Maryland State Department of Education (before Phase III).

K-12 Programs

Teaching Certification

Contact:

William P. Childs, Assistant
 Professor, Department of
 Educational Professions

Professors:

Azzi, Cushall, K. Soderberg-
 Sarnaker, Wheaton

Associate Professors:

Golden (Chair), Schweiker-
 Marra

Assistant Professors:

Childs, J. Welsch

Instructors:

Milleson, L. Simpson

- You must complete an application for each phase of the program.
- The requirements for entry into phases are listed in the Educational Professions section of this catalog.
- The courses of study to be followed in academic content areas are established by the individual departments (art, health and physical education, music).

Professional Education Sequence for K-12 Programs

ART

Pre-Phase I EDUC 201 Students, Teachers, and Learning Environments
 (3 hours)

Phase I EDUC 200 Phase I Teaching and Professional Assessment Laboratory
 (7 hours) EDUC 202 Foundations of Learning & Instruction
 REED 317 Content Area Reading

Phase II EDUC 300 Phase II Teaching and Professional Assessment Laboratory
 (14.5 hours) EDUC 392 K-12 Field Experience
 EDUC 450 Art Education Methods for the Secondary Teacher
 EDUC 451 Art Education Methods for the Elementary Teacher
 REED 418 Reading and Writing Connections
 SPED 451 Adapting Instruction in Diverse Classrooms

Phase III EDUC 406 Leadership Seminar
 (14 hours) EDUC 497 Teaching Internship, K-12 Program

Other Graduation/Program Exit Requirements

- Successful presentation of a portfolio that meets institutional, Maryland state, and national standards.
- Verification of taking PRAXIS II content knowledge and pedagogy tests required by the Maryland State Department of Education (before Phase III).

MUSIC

Pre-Phase I EDUC 201 Students, Teachers, and Learning Environments
 (3 hours)

Phase I EDUC 200 Phase I Teaching and Professional Assessment Laboratory
 (7 hours) EDUC 202 Foundations of Learning & Instruction
 REED 317 Content Area Reading

Phase II EDUC 300 Phase II Teaching and Professional Assessment Laboratory
 (16.5 hours) EDUC 354 General Music Methods in Elementary School
 EDUC 355 General Music Methods in Secondary School
 EDUC 392 K-12 Field Experience

- You cannot major or minor in K-12 education.

MUSC 352 Choral Music Methods
or MUSC 353 Instrumental Music Methods
REED 418 Reading and Writing Connections
SPED 451 Adapting Instruction in Diverse Classrooms

Phase III EDUC 406 Leadership Seminar
(14 hours) EDUC 497 Teaching Internship, K-12 Program

Other Graduation/Program Exit Requirements

- Successful presentation of a portfolio that meets institutional, Maryland state, and national standards.
- Verification of taking PRAXIS II content knowledge and pedagogy tests required by the Maryland State Department of Education (before Phase III).

HEALTH & PHYSICAL EDUCATION

Pre-Phase I EDUC 100 Career Analysis in Education
(4 hours) EDUC 201 Students, Teachers, and Learning Environments

Phase I EDUC 202 Foundations of Learning & Instruction
(7 hours) EDUC 346 Educational Technology Lab I
REED 317 Content Area Reading

Phase II EDUC 392 K-12 Field Experience
(11 hours) EDUC 447 Educational Technology Lab II
HEED 404 Health Instruction
PHEC 418 Physical Education in the Secondary School
REED 418 Reading and Writing Connection

Phase III EDUC 406 Leadership Seminar
(15 hours) EDUC 448 Educational Technology Lab III
PHEC 497 Teaching Internship, K-12 Program (*Capstone*)

Other Graduation/Program Exit Requirements

- Successful presentation of a portfolio that meets institutional, Maryland state, and national standards.
- Verification of taking PRAXIS II content knowledge and pedagogy tests required by the Maryland State Department of Education (before Phase III).

Secondary Programs

Teaching Certification

Contact:

William P. Childs, Assistant Professor, Department of Educational Professions

Professors:

Azzi, Cushall, K. Parks, Wheaton

Associate Professors:

Golden (Chair), Schweiker-Marra

Assistant Professors:

Childs, James, J. Welsch

Instructors:

Milleson

The courses of study to be followed in academic content areas are established by individual departments. You may select the secondary school teaching certification option in addition to completing the major in the following fields:

- biology
- chemistry
- English
- foreign languages & literature (certification in concentration, French or Spanish)
- earth science
- mathematics
- physics
- social science

If you are majoring in economics, geography, history, political science, social science, or sociology, you are strongly advised to meet Maryland State certification requirements in social studies or have a second major in which you can be assigned for student teaching.

Professional Education Sequence for Secondary Programs

Pre-Phase I EDUC 100 Career Analysis in Education
(4 hours) EDUC 201 Students, Teachers, and Learning Environments

Phase I EDUC 200 Phase I Teaching and Professional Assessment Laboratory
(8 hours) EDUC 202 Foundations of Learning & Instruction
EDUC 346 Educational Technology Lab I
REED 317 Content Area Reading

- You must complete an application for each phase of the program.
- The requirements for entry into phases are listed in the Educational Professions section of this catalog.
- You cannot major or minor in Education: Secondary Programs

- Phase II** (15.5 hours) EDUC 300 Phase II Teaching and Professional Assessment Laboratory
EDUC 391 Teaching Internship I: Secondary Education
REED 418 Reading and Writing Connections
SCED 410 Secondary Methods and Curriculum
EDUC 447 Educational Technology Lab II
SPED 451 Adapting Instruction in Diverse Classrooms
One course from among the following:
SCED 411, 414, 415, 419, or 420 (*content-specific methods courses*).
- Phase III** (15 hours) EDUC 406 Leadership Seminar
EDUC 448 Educational Technology Lab III
SCED 496 Teaching Internship II: Secondary Education (*Capstone*)

Other Graduation/Program Exit Requirements

- Successful presentation of a portfolio that meets institutional, Maryland state, and national standards.
- Verification of taking PRAXIS II content knowledge and pedagogy tests required by the Maryland State Department of Education (before Phase III).

Secondary/Adult Generic Special Education

Teaching Certification

Certificate

Coordinator:

Oma Gail Simmons, Associate Professor, Department of Educational Professions

- You must meet all phase admission requirements as listed in the Educational Professions section of this catalog.
- If you have officially declared your intent to complete this certificate, you may count the nine graduate credits required towards your undergraduate degree.
- If you have dual certification in a content area and in special education, you will be sought after as a master teacher.
- If you already have a bachelor's degree and hold secondary or K-12 certification, you may attain dual certification through the M.Ed. in Special Education (see the FSU Graduate Catalog).

Hours Required in Education	30
Hours Required in Other Departments	3
Total Hours Required	33

You are eligible to complete the upper-division certificate in Secondary/Adult Generic Special Education if you are a currently enrolled undergraduate student earning secondary or K-12 teaching certification along with a major in your content discipline.

Summary of Requirements for Certificate in Secondary/Adult Generic Special Education

(33 hours)

EDUC 202 Foundations of Learning and Instruction*
PSYC 210 Child Development
or PSYC 212 Adolescence and Adulthood
REED 317 Content Area Reading*
REED 418 Reading and Writing Connections*
SPED 451 Adapting Instruction in Diverse Classrooms*
SPED 462 Introduction to the Education of Exceptional Children
SPED 601 Assessment, Diagnosis, and Evaluation of Exceptional Children
SPED 602 Instructional Content and Practices for Exceptional Children
SPED 605 Communication and Collaborative Partnerships in Special Education Programs
SCED 496 Teaching Internship II: Secondary Education
or EDUC 497/PHEC 497 Teaching Internship: K-12 Programs**

* Also required for secondary and some K-12 teaching certification programs.

**Six of the 12 credits required for secondary K-12 teaching certification must involve working with students with special needs.

Subject to change pending approval from the Maryland State Department of Education

Exercise & Sport Science

Major

Professor:

Surgent

Associate Professor:

A. Siemann

Assistant Professors:

Strieby, Wright

Lecturer:

M. Siemann

Head Athletic Trainer:

Zaloga

- You must complete a 9-credit internship during your senior year.
- Upon completion of degree requirements you will be eligible to take the National Strength and Conditioning Association (NSCA) certification exam for Personal Trainer and/or Certified Strength and Conditioning Specialist.

	For Major
Hours Required in HPE:	49
Hours Required in Other Departments:	27
Total Hours Required:	76

Summary of Requirements for Major in Exercise and Sport Science

1. Discipline Core Courses:

(40 hours)

HEED 103 Foundations of Exercise and Sport Science

HEED 200 Nutrition

HEED 305 Care and Prevention of Athletic Injuries

HEED 306 Organization & Administration of Exercise and Sport Science

PHEC 115 Methods of Group Exercise Instruction

PHEC 175 Foundations of Resistance Training

PHEC 303 Biomechanics for Exercise and Sport Science

PHEC 341 Psychology of Physical Activity

PHEC 401 Physiology of Exercise

PHEC 410 Advanced Strength Training

PHEC 411 Evaluation and Prescription in Fitness

PHEC 435 Lifespan Health and Fitness

PHEC 482 Field Experience in Health Fitness (3 hours)

PHEC 492 Seminar in Health Fitness

PHEC 495 Internship in Health Fitness (*Capstone*)

(9 hours)

2. Courses Required in Other Departments:

(27 hours)

ACCT 211 Financial Accounting

BIOL 149 General Biology (*GEP Group C*)

BIOL 201 Anatomy and Physiology I

BIOL 202 Anatomy and Physiology II

BUAD 100 Introduction to Business

MATH 209 Elements of Applied Probability and Statistics (*Core Skill 3*)

MGMT 315 New Business Ventures

PSYC 150 General Psychology (*GEP Group D*)

Health & Physical Education

Major with Teaching Certification

Professors:

R. Lewis, Surgent

Associate Professor:

A. Siemann (Chair), Gray
(Recreation & Parks
Management)

Assistant Professors:

Strieby, Wright

Instructor:

L. Simpson

Lecturers:

M. Siemann

- Upon successful completion of the program, you will be eligible to apply for 7-12 health certification and K-12 physical education certification.
- The Department of HPE also offers majors in athletic training and exercise and sport science.
- A minor is offered in coaching (see separate section of this catalog). You cannot minor in Health and Physical Education.

For Major and
Teaching Certification

Hours Required in HPE:	75
Hours Required in Other Departments:	30
Total Hours Required:	105

Summary of Requirements for Major in Health & Physical Education

Major

1. Discipline Core:

(57 hours)

Health Education

(26 hours)

HEED 100 Personal Wellness
HEED 104 Foundations of Health Education
HEED 202 Coordinated School Health Program
HEED 207 Tobacco and Other Drugs
HEED 208 Health Education for Special Populations
HEED 209 Safety and First Aid
HEED 220 School Health Nutrition
HEED 221 Family Life and Sex Education
HEED 224 Mental and Emotional Health
HEED 225 Consumer and Environmental Health
HEED 226 Community Health
HEED 227 Disease Prevention
HEED 311 Assessment & Evaluation Methodology
HEED 416 Curriculum Design in Health Education
HEED 418 Current Issues in Health

Physical Education

(31 hours)

PHEC 103 Foundations of Physical Education
PHEC 164 Teaching of Physical Education Through Outdoor Adventure Education
PHEC 165 Teaching of Physical Education Through Cooperative Team Challenges
PHEC 166 Teaching of Physical Education Through Game and Activity Skills
PHEC 167 Teaching of Physical Education Through Educational Gymnastics
PHEC 168 Teaching of Physical Education Through Dance Forms
PHEC 169 Teaching of Physical Education Through Health Fitness
PHEC 301 Applied Biomechanics
PHEC 310 Organization & Administration of Health and Physical Education
PHEC 402 Adapted Physical Activities
PHEC 406 Applied Physiology
PHEC 407 Motor Learning and Performance
PHEC 408 Movement Experiences for Children
PHEC 416 Curriculum Design in Physical Education

Transfer Students

(1 hour)

PHEC 170 Physical Education Teaching Lab

2. Required Courses in Other Departments:

(11 hours)

BIOL 149 General Biology I (GEP Group C)
BIOL 211 Essentials of Anatomy and Physiology
GEOG 104 Human Geography (GEP Group D or F)

3. Education Courses

(37 hours)

Pre-Phase EDUC 100 Career Analysis in Education

(4 hours) EDUC 201 Students, Teachers, and Learning Environments

Phase I (7 hours)	EDUC 202 Foundations of Learning & Instruction EDUC 346 Educational Technology Lab I REED 317 Content Area Reading
Phase II (11 hours)	EDUC 392 K-12 Field Experience EDUC 447 Educational Technology Lab II HEED 404 Health Instruction PHEC 418 Physical Education in the Secondary School REED 418 Reading and Writing Connections
Phase III (15 hours)	EDUC 406 Leadership Seminar EDUC 448 Educational Technology Lab III PHEC 497 Teaching Internship, K-12 Program (<i>Capstone</i>)

4. Other graduation/program exit requirements

- Successful presentation of a developmental portfolio according to department format.
- Verification of taking Praxis II content knowledge and pedagogy tests required by the Maryland State Department of Education before Phase III.

Health Promotion

Minor

Coordinator:

Susan Gray, Associate Professor, Department of Recreation and Parks Management

- The curriculum is based on the professional responsibilities and competencies for health education and health promotion specialists developed by the American Association of Health Education.
- If you have a GPA of 2.75 or higher, you may be accepted into the master's degree program in Community Health Promotion at West Virginia University.
- You cannot major in health promotion.

For Minor

Total Hours Required

21

Summary of Requirements for Minor in Health Promotion

Minor

(21 hours)

HEED 101 Community Health Promotion
HEED 125 Health and Culture (*GEP Group F*)
HEED 330 Epidemiology of Health and Disease
HEED 405 Sexuality
HEED 430 Methods and Materials for Health Promotion
HEED 435 Health Promotion Programming
PHEC 483 Field Experience in Health Promotion (3 cr.)

Recreation and Parks Management

Concentrations:	Community Program Delivery	Adventure Sports	Hospitality & Tourism	Therapeutic Recreation	Minor
Hours Required in Department:	48	42	42	48	21
Hours Required in Other Departments:	21	12-13	9	29	0
Additional Hours Required:	0	13	19	0	0
Total Hours Required:	69	69-70	70	77	21

Summary of Requirements for Major/Minor in Recreation and Parks Management

Major

Minor

Concentrations in:

- adventure sports
- community program delivery
- hospitality management & tourism
- therapeutic recreation

Professor:

Kauffman

Associate Professor:

Gray

Assistant Professors:

Blankenship, Dougherty, Hill

Affiliated Faculty:

Debra Frank, Allegany College of Maryland;
Wilma Brooks, Community College of Baltimore County, Catonsville Campus;
Mike Logsdon, Garrett College

- Program accredited by NRPA/AAPAR (American Association for Physical Activity and Recreation).
- You are required to complete RECR 497 which includes attendance at one state, regional or national conference during your junior or senior year and current certification in CPR and first aid.
- Current certification in CPR and first aid is required.
- This program may also be completed at the Community College of Baltimore County - Catonsville. Interested students may contact Maureen Dougherty, coordinator of the FSU Recreation and Parks program at CCBC, 410/869-1103.

Major

Minor

1. Discipline Core:

(39 hours)

RECR 201 Introduction to Recreation and Parks
RECR 221 Introduction to Therapeutic Recreation
RECR 342 Park and Facility Design
RECR 380 Recreation Leadership
RECR 382 Program Planning
RECR 388 Research Methods in Recreation & Parks
RECR 440 Organization and Administration of Recreation & Parks
RECR 443 Issues and Legal Liability in Recreation & Parks
RECR 491 Practicum & Professional Seminar
RECR 492 Internship Project (*Capstone*)
RECR 495 Internship in Recreation
RECR 497 Out-of-class Requirements (*see bullets at left*)

2. Courses Outside Department:

(3 hours)

COSC 100/110 Intro. to Computer Science (*Tech. Fluency*)
or COSC 220 Introduction to Software Applications
or EDUC 454 Microcomputer Application in Education
or approved computer application course

3. Complete one of the following:

- a. a second major
- b. a minor
- c. an associate's degree
- d. a bachelor's degree from another institution
- e. a concentration within the major as follows:

I. Community Program Delivery (27 hours)

A. HPE/RECR (9 hours):

Select three of the following:

RECR 100 Leisure and the Diverse American Culture (*GEP Group F*)
RECR 330 Outdoor Education
RECR 381 Facilitation Skills & Techniques in Recreation & Parks
RECR 384 Special Event Management
HEED 101 Community Health Promotion
ASI 138 Backcountry & Outdoor Living Skills*
ASI 260 Wilderness First Responder*

B. Psychology (6 hours):

PSYC 150 General Psychology (*GEP Group D*)
PSYC 210 Child Development
or PSYC 212 Adolescence and Adulthood

C. Sociology (6 hours):

SOCI 100 Intro. to Sociology (*GEP Group D*)

And one of the following:

SOCI 200 Social Problems
SOCI 203 Sociology of Deviant Behavior
SOCI 322 Social Demography
SOCI 325 Community Analysis
SOCI 326 Sociology of Rural Life

1. Required Courses

(6 hours)

RECR 380 Recreation Leadership
RECR 382 Recreation Programming

2. Electives

(15 hours)

Select five additional RECR courses, at least four of which must be at the 300- or 400-level, excluding field experiences and internships (RECR 480, RECR 491, RECR 492 and REC 495).

* courses offered only at Garrett College

SOCI 328 Sociology of Urban Life

SOCI 366 Social Inequality

D. Communications Studies (6 hours)

Select one of the following:

CMST 102/112 Introduction to Human Communications

CMST 122 Introduction to Public Speaking

CMST 132 Introduction to Interpersonal and Small Group Communication

Select one of the following:

CMST 215 Small Group Communication

CMST 300 Interpersonal Communication

CMST 322 Presentational Communication

**Adventure Sports
Concentration**

- The adventure sports concentration is a collaborative program between Garrett College and Frostburg State University.
- You may enroll in this program at Frostburg State University and take adventure sports courses at Garrett College, or you may complete your first two years at Garrett College and then transfer to FSU. If you complete the Adventure Sports concentration, you will be eligible to receive an AAS in adventure sports at Garrett College.
- Legal residents of Delaware, South Carolina, Virginia and West Virginia may complete a recreation management degree (adventure sports concentration) at Maryland resident tuition rates through the SREB Academic Common Market (see Admissions section of the catalog).

II. Adventure Sports (27-28 hours)

A. Two ASI skills courses (2 hours)*

Any two courses from Section B, C, D or E

B. Two Introductory Level Courses (2 hours)*

Examples include but are not limited to:

ASI 111 Beginning Orienteering

ASI 113 GPS Navigation in Adventure Sports

ASI 115 Wilderness Survival Skills

ASI 120 Introduction to Traditional Rock Climbing

ASI 121 Rock Craft 1

ASI 130 Introduction to Whitewater Kayaking

ASI 133 Introduction to Whitewater Canoeing

ASI 136 Introduction to Rafting and River Guiding

ASI 138 Introduction to Sea Kayaking

ASI 140 Introduction to Cross Country Mountain Biking

ASI 145 Mountain Bike Mechanics I

ASI 150 Beginning Alpine Skiing

ASI 154 Beginning Snowboarding

ASI 158 Cross Country Skiing

ASI 159 Introduction to Telemark Skiing

ASI 180 Introduction to New Games-Initiatives/Low Ropes Challenge Course

ASI 190 Beginning Open Water SCUBA

ASI 192 Basic Sailing

C. Three Intermediate Level Courses (3 hours)*

Examples include but are not limited to:

ASI 117 Cold Weather Outdoor Living Skills

ASI 212 Eastern Mountaineering

ASI 220 Rock Craft 2

ASI 221 Rock Craft 4

ASI 222 Rock Craft 5

ASI 226 Ice Climbing

ASI 230 Whitewater Kayaking Techniques I

ASI 231 Whitewater Kayaking Techniques II

ASI 232 Whitewater Freestyle Kayaking

ASI 233 Whitewater Canoeing Techniques I

ASI 236 Whitewater Rafting Technique Development

ASI 238 Sea Kayaking Techniques I

ASI 240 Intermediate Cross Country Mountain Biking

ASI 241 Mountain Bike Touring

ASI 242 Trails Riding

ASI 244 Downhill and Dual-Slalom

ASI 245 Mountain Bike Mechanics II

ASI 247 Mountain Bike Mechanics Certification

ASI 250 Alpine Skiing Techniques I

ASI 251 Alpine Skiing Techniques II

ASI 252 Slalom/Giant Slalom Alpine Ski Racing

ASI 254 Snowboarding Techniques I

ASI 255 Snowboarding Techniques II

**Garrett College courses*

ASI 258 Cross Country Skiing Techniques I
 ASI 280 Intermediate Ropes Course
 ASI 290 Intermediate Open Water SCUBA

D. One Instructor/Guide Level Course (1 hour)*

Examples include but are not limited to:

ASI 270 Rock Craft 6: Rock Climbing Instructor Development
 ASI 272 High Ropes Course Instructor Development
 ASI 273 Mountain Bike Guide Development and Certification
 ASI 274 Ski School Instructor Training
 ASI 275 Whitewater Canoe Instructor Training
 ASI 276 Whitewater Kayak Instructor Training
 ASI 277 Whitewater Rafting Instructor Training

E. One Rescue Level Course (1 hour)*

Examples include but are not limited to:

ASI 160 Swift Water Rescue
 ASI 162 Fundamentals of Search and Rescue
 ASI 164 Advanced Level First Aid and CPR
 ASI 260 Rock Craft 3: Vertical Rock Rescue
 ASI 262 National Ski Patrol Training
 ASI 264 Rescue Diving

F. Take all of the following: (9 hours)

ASI 110 Backcountry Living Skills *
 ASI 260 Wilderness First Responder *
 RECR 393 History and Philosophy of Outdoor Recreation
 or HUM 210 Society & the Environment *

G. Communications Studies (3 hours)

Select one of the following:

CMST 102/112 Intro to Human Communications
 CMST 122 Introduction to Public Speaking
 CMST 132 Introduction to Interpersonal and Small Group Communication
 CMST 215 Small Group Communication

H. Select two of the following: (6-7 hours)

ACCT 211 Financial Accounting
 BIO 110 Natural History (4 credit hours) *
 MGMT 351 Management of Organizations
 FINA 303 Principles of Finance
 RECR 421 Program Design and Evaluation in Therapeutic Recreation
 PSYC 150 General Psychology (GEP Group D)
 PSYC 210 Child Psychology
 PSYC 212 Adolescence and Adulthood
 PSYC 385 Group Processes
 PSYC 386 Drugs and Behavior
 PSYC 410 Introduction to Counseling
 PSYC 417 Psychology of Abnormal Behavior

Hospitality Management & Tourism Concentration

- The hospitality concentration is a collaborative program with Allegany College of Maryland (ACM).
- You may enroll in this program at Frostburg State University and take the hospitality courses at ACM, or you may complete your first two years at ACM and then transfer to FSU.

III. Hospitality Management and Tourism (27 hours)

A. Recreation course:

(3 hours)
 RECR 384 Special Events Management

B. Tourism courses:

(3 hours)
 GEOG 454 Geography of Tourism
 or GEOG 455 Tourism Planning
 or **30-120 Principles of Travel/Tourism

C. Hotel and Resort courses:

(19 hours)
 **30-110 Food Service Sanitation

*Garrett College courses

**Allegany College of Maryland courses

Therapeutic Recreation Concentration

- The therapeutic recreation concentration prepares you to sit for the National Council for Therapeutic Recreation Certification Exam.
- You may complete the B.S. in Recreation and Parks Management with a therapeutic recreation concentration at the main campus or at the CCBC Catonsville campus.
- You may complete a minor in either Psychology or Sociology by taking several additional courses.

**30-160 Quantity Food Production
 **30-203 Food Purchasing, Inventory and Cost Control
 **30-204 Menu Planning and Food Merchandising
 **30-205 Food and Beverage Cost Control
 **30-209 Hotel/Motel Front Office Management
 **30-215 Hotel/Motel Property Management

D. Business courses:

(3 hours)
 ACCT 211 Financial Accounting
 or **61-109 Practical Accounting/Bookkeeping

IV. Therapeutic Recreation

(35 credits)

A. Complete a 480 hour consecutive internship under an NCTRC certified supervisor.

B. Recreation Courses:

(9 hours)
 RECR 321 Theories and Concepts of Therapeutic Recreation
 RECR 421 Program Design and Evaluation in Therapeutic Recreation
 RECR 422 Principles and Practices in Therapeutic Recreation

C. Anatomy and Physiology:

(4 hours)
 BIOL 211 Essentials of Anatomy and Physiology
 or BIOL 201 Anatomy and Physiology I
 or BIOL 201 Human Anatomy and Physiology I***

D. Abnormal Psychology:

(3 hours)
 PSYC 417 Psychology of Abnormal Behavior
 or PSYC 201 Abnormal Psychology***

E. Human Growth and Development through the Life Span:

(3-6 hours)
 PSYC 210 Child Psychology
 and PSYC 212 Adolescence and Adulthood
 or PSYC 103 Principles of Human Growth/Development***

F. Human Services and Related Biological and Physical Sciences:

(Frostburg: 13 hours. CCBC: 16 hours)
 Select 4-5 courses:
 Required for students on Frostburg campus:
 BIOL 149 General Biology I (GEP Group C)
 PSYC 150/151 General Psychology (GEP Group D)

BIOL 202 Anatomy and Physiology II
 PSYC 213 Psychology of Adjustment
 PSYC 250 Death and Dying
 PSYC 404 Psychology of Exceptional Children
 PSYC 409 Human Learning and Cognition
 PSYC 418 Social Psychology
 PSYC 489 Child and Adolescent Disorders
 PSYC 410 Introduction to Counseling
 SOCI 100 Introduction to Sociology (GEP Group D)
 SOCI 200 Social Problems
 SOCI 203 Sociology of Deviant Behavior
 SOCI 340 Criminology
 SOCI 442 Juvenile Delinquency
 SOCI 468 Sociology of Later Life
 PHEC 303 Biomechanics for Exercise Science
 BIOL 101 General Biology***
 BIOL 202 Human Anatomy & Physiology II***
 PSYC 101 Introduction to Psychology***
 SOCL 101 Introduction to Sociology***

**Allegany College of Maryland courses
 *** CCBC, Catonsville courses

College of Liberal Arts & Sciences

Programs in the College of Liberal Arts & Sciences

Addictions Counseling
 African American Studies
 Art & Design
 Art History
 Biology
 Interpretive Biology & Natural History
 Chemistry
 Communication Studies
 Computer Print Graphics
 Computer Science
 Criminal Justice
 Cultural Anthropology
 Dance
 Dental Hygiene Preparation
 Dentistry Preparation
 Earth Science
 Engineering: Dual Degree Program
 Electrical Engineering
 Mechanical Engineering
 English
 Environmental Analysis & Planning
 Environmental Humanities
 Environmental Policy
 Ethnobotany
 Film Studies
 Fine Arts
 Foreign Languages & Literature
 Forestry
 Geography
 Graphic Design
 History
 Journalism
 Law & Society
 Law: Bachelors/J.D. Dual Degree Program
 Law School Preparation
 Mass Communication
 Mathematical Sciences
 Mathematics
 Medical Technology Preparation
 Medicine Preparation
 Music
 Nursing Preparation
 Occupational Therapy Preparation
 Optometry Preparation
 Pharmacy Preparation
 Philosophy
 Physical Therapy Preparation
 Physics
 B.S. Physics/M.S. Applied Physics
 Dual Degree
 Political Science
 Professional Writing
 Psychology
 Public Administration
 Public Relations
 Social Work
 Sociology
 Theatre
 Urban & Regional Planning
 Veterinary Medicine Preparation
 Wildlife & Fisheries
 Women's Studies

College of Liberal Arts & Sciences Strategic Plan

Vision Statement

The College of Liberal Arts and Sciences will be recognized regionally, throughout the state, and nationally for providing excellent disciplinary and interdisciplinary academic programs and for serving as a catalyst for economic development. Its diverse programs will contribute to the reputation of Frostburg State University as the premier educational and cultural center for the region. The college's efforts in undergraduate research and experiential learning will achieve national recognition for providing "real life" experiences for students.

Mission

The mission of the College of Liberal Arts and Sciences is to provide students with a rigorous liberal arts and sciences curriculum grounded in a flexible, broad-based general education program and enriched by the availability of challenging academic majors and minors, graduate programs, interdisciplinary offerings, and other newly evolving programs that are responsive to emerging needs.

The college mission is implemented through a diverse recognized and credentialed faculty committed to excellence in teaching, learning, scholarship, and creative artistic production.

The college fulfills its mission by preparing graduates to enter a complex changing global society with competence and confidence.

Core Values

1. We value a high standard of excellence in teaching, service, research, and other professional endeavors.
2. We value a stimulating, collaborative, and supportive setting for students, faculty, staff, and administrators characterized by creativity, innovation, and excellence.
3. We value lifelong learning and professional development for students, faculty, staff, and administrators.
4. We value an atmosphere of mutual respect and support, which promotes open sharing of ideas and viewpoints and debate of issues and concerns.
5. We value high standards of ethics, integrity, responsibility, and accountability.
6. We value the active participation of stakeholders in the planning and development of programs.
7. We value interdisciplinary collaboration.
8. We value diversity.
9. We value assessment that leads to continuous improvement.
10. We value nimble response to change.

Fundamental Assumptions

1. Teaching methodologies, strategies, curricula, and classroom architecture must be informed by research on the science of learning.
2. In an environment of accelerated change, FSU must be responsive to emerging needs of society.
3. A pattern of continuously diminishing state resources for public higher education has developed nationally.
4. New or expanded programs will be supported by reallocation of existing resources or through external funding.
5. Following the Board of Regents initiative, FSU will continue to improve effectiveness and efficiency.
6. Collaboration across programs, departments, divisions, and colleges can lead to enhanced student learning and improved effectiveness and efficiency.
7. Growth of FSU student population will continue but not uniformly across colleges or departments.
8. Faculty development is critical to achieving educational objectives.
9. CLAS will increase its support of economic development throughout the region.

Addictions Counselor Preparation

Professional Certification Program

Certificate

Contact:

Department of Psychology

- You cannot major or minor in addictions counseling.
- You may receive credit-by-examination for the following courses: PSYC 386, 387, 388, 389, 417.

- Since the Addictions Counseling program is a regional collaboration with Allegany College of Maryland, with shared courses and faculty, you may count enrollments at either Frostburg State University or Allegany College of Maryland to meet the requirement that at least one-half of the credit hours required in the certificate be completed in residence. In addition, grades from courses completed while enrolled through Allegany will count in determining whether you meet the 2.0 minimum grade point average in certificate courses.

Addictions Counselor Preparation

The Board of Professional Counselors and Therapists oversees the following regulations for Addictions Counselors in Maryland. There are three levels of certification, two of which are relevant to the undergraduate student and are briefly described below. For complete requirements for certification, please contact:

Board of Professional Counselors and Therapists
4201 Patterson Avenue
Baltimore, Maryland 21215-2299
(410) 764-4732

Certified Supervised Counselor – Alcohol and Drug (CSC-AD): 15 credit hours of alcohol and drug counselor training required and an associate's degree in a health or a human service counseling field.

Certified Associate Counselor – Alcohol and Drug (CAC-AD): 20 credit hours of alcohol and drug counselor training required and a bachelor's degree in a health or human services counseling field.

At FSU, students majoring in psychology or social work are automatically eligible, while majors in law and society or sociology will be considered on a case-by-case basis. Completing one of these degree programs AND taking the required alcohol and drug counselor training courses, are the first steps in meeting certification requirements. At the bachelor's degree level you must also have at least three years or 3000 hours of supervised experience and two years of the experience must have been completed after the award of the degree. You will also have to pass an examination selected by the Board.

The credit hour requirement must be satisfied from the following content areas. Each area is followed by the appropriate FSU course(s); all are 3 credit courses except Ethics. Please be aware that although bachelor's degree counselors need only 20 credit hours from the following list to satisfy the course requirement, **your examination will cover ALL CONTENT AREAS.**

1. Pharmacology of Psychoactive Drugs	PSYC 386
2. Individual Counseling Techniques	PSYC 410, SOWK 379
3. Group Therapy Techniques	PSYC 385, SOWK 473
4. Abnormal Psychology	PSYC 417
5. Addictions Treatment Delivery	PSYC 387
6. Treatment Issues and Theory in Addictions	PSYC 388
7. Family Counseling*	no undergraduate course offered
8. Theories of Counseling and Psychotherapy	no undergraduate course offered
9. Human Life Span Development	PSYC 210 and 212, SOWK 375
10. Ethics for the Addiction Counselor (1 credit hour)	PSYC 389

* Although FSU does not currently offer an undergraduate course in family counseling, SOWK majors taking SOWK 470, *Generalist Practice with Individuals and Families*, will find this course helpful in their preparation for family counseling issues covered on the examination.

Addictions Counseling Certificate

If you would like to get a head start on professional certification for addictions counselors, you may complete the following undergraduate certificate as a degree-seeking or non degree-seeking student. You still must complete a bachelor's degree in one of the human services fields noted above as well as complete additional course work in order to sit for the state exam.

Required Courses:

(16 hours)

PSYC 150 General Psychology
PSYC 386 Drugs and Human Behavior
PSYC 387 Addictions Treatment Delivery
PSYC 388 Treatment Issues and Theory in Addictions
PSYC 389 Ethics for the Addiction Counselor

ONE of the following:

SOWK 379 or PSYC 410 Foundations for Generalist Practice OR Introduction to Counseling
SOWK 473 or PSYC 385 Generalist Practice with Groups OR Group Processes

African American Studies

Minor

Coordinator:

Robert M. Moore,
Associate Professor,
Department of Sociology

Professor:

Bullamore (Geography)

Associate Professors:

Makang (Philosophy),
Moore (Sociology),
O'Rorke (Political Science),
Redmond-Matz
(Psychology), Rhodes
(Visual Arts), Saku
(Geography)

Assistant Professor:

Abbey (History)

- You may minor in African American Studies. There is no major available.
- All courses in African American Studies may be taken whether or not you wish to pursue the minor.
- A listing of Special Topics courses offered for the minor in future semesters is available through the Coordinator.

For Minor

Hours Required in African American Studies:

9

Hours Required in Other Departments:

12

Total Hours Required:

21

Summary of Requirements for Minor in African American Studies

Minor

1. Required Core Courses:

(9 hours)

AAST 200 Introduction to African American Studies (*GEP Group F*)

AAST 300/HIST 301 Traditional Africa

AAST 400 Africans of the Diaspora (*GEP Group F*)

2. Elective Courses:

(12 hours)

A minimum of 3 hours must be taken from Humanities, and 3 hours from Social Sciences.

Humanities:

ART 302 Artistic Traditions: Africa and the Americas (*GEP Group F*)

ENGL 231 African American Literature

HIST 453 Contemporary Africa

PHIL 311 Asian and African Philosophy (*GEP Group F*)

Special Topics courses numbered 290, 403, 490, or 491 when approved by Coordinator

Social Sciences:

GEOG 324 Urban Geography: Internal City Patterns

GEOG 403 Geography of Sub-Saharan Africa

POSC 330 Politics of Africa

PSYC 418 Social Psychology

PSYC 450 Multicultural Counseling

SOCI 305 Racial and Cultural Minorities (*GEP Group F*)

SOCI 306 The Sociology of African Americans

Special Topics courses numbered 290, 403, 490, or 491 when approved by Coordinator

Other:

AAST 490 Special Topics in African American Studies

AAST 494 Practicum - limited to one 3 hour total enrollment

PHEC 415 The Black Athlete in American Society

Independent Studies courses numbered 499 when approved by the Coordinator, limited to one 3-hour total enrollment.

Art & Design

Major

Teaching Certification Option

Professors:

Brown, Davis, Dieruf,
Llewellyn

Associate Professor:

Rhodes (chair)

Assistant Professor:

Herzfeld, Hodges

- If you complete the major in Art & Design, you will earn the Bachelor of Fine Arts (BFA) degree.
- Minors are offered in art history, fine arts, and graphic design. A certificate is offered in Computer Print Graphics. See separate sections of catalog.
- You must successfully pass the 30 hour Studio Focus Review and Senior Review.
- You must successfully complete ART 207 Graphic Design by the time you earn 45 credit hours. ART 207 also provides instruction in technology fluency and information literacy for BFA candidates.
- Only courses in which a grade of C or better is earned may count towards satisfaction of major and minor requirements.
- Optional internships are available to qualifying students, particularly in graphic design. Student interns have been placed in government services, design studios, public relations firms and advertising businesses.
- You may elect the teaching certification option (internship required) as part of your bachelor's degree or complete the MAT Secondary/K-12 in art education (See Graduate Catalog).

	For Major	For Teaching Cert. Option
Hours Required in Art:	60	60
Hours Required in Other Departments:	0	38.5
Total Hours Required:	60	98.5

Summary of Requirements for BFA in Art & Design

Major

1. Basic Courses:

(12 hours)

ART 104 Two-Dimensional Design
ART 105 Three-Dimensional Design
ART 212 Drawing
ART 412 Advanced Drawing

2. Introductory Studio:

(18 hours)

ART 207 Graphic Design (*Tech. Fluency*)

And choose five courses from:

ART 202 Ceramics
ART 207 Graphic Design
ART 221 Painting
ART 232 Printmaking
ART 235 Photography
ART 240 Sculpture
ART 307 Computer Graphics or 236 Digital Imaging

Note: Students wishing to specialize in Graphic Design must include 235, 307.

Students seeking certification to teach art must include 202, 221, 232, 240.

3. Studio Focus Review:

(0 hours)

ART 291 Studio Focus Review

4. Art History and Critical Studies:

(12 hours)

ART 301 Artistic Traditions: Asia (*GEP Group F*)
or ART 302 Artistic Traditions: Africa and the Americas (*GEP Group F*)
ART 360 Western Art History
ART 408 20th Century Art History
ART 415 Art Criticism

5. Advanced Studio Focus

(15 hours - 12 credit hours in focus and 3 credit hours in secondary area.)

ART 402 Advanced Ceramics
ART ____* Advanced Graphic Design
ART 421 Advanced Painting
ART 432 Advanced Printmaking
ART 435 Advanced Photography
ART 440 Advanced Sculpture

*ART 407 Advanced Graphic Design:

Print and Video Media

*ART 414 Advanced Graphic Design: Interactive
Multimedia Design

OR

Dual-Media Studio Focus+

(15 hours - 9 credit hours in focus and 6 hours in secondary area.)

+Note: Only students seeking certification to teach art may have a Dual-Media focus in Graphic Design.

6. Senior Portfolio:

(3 hours)

ART 411 Senior Portfolio (*Capstone*) (co-registration in ART 491 required)

7. Senior Review:

(0 hours)

ART 491 Senior Review (co-registration in ART 411 required)

Summary of Requirements for Teaching Certification Option in Art

If you wish to complete a Maryland State approved program in teaching Art, you must:

- Complete the BFA in Art and Design.
- Select the following courses in partial fulfillment of the Introductory Studio requirement:
 - ART 202 Ceramics
 - ART 221 Painting
 - ART 232 Printmaking
 - ART 240 Sculpture
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: K-12 Programs.

Art History

Minor

Professors:

Brown, Davis, Dieruf,
Llewellyn

Associate Professor:

Rhodes (chair)

Assistant Professor:

Herzfeld, Hodges

- Minors are also offered in fine arts and graphic design. A major is offered in Art & Design. See separate listings in this catalog.
- Only courses in which a grade of C or better is earned may count towards satisfaction of major and minor requirements.
- You cannot major in Art History.

For Minor

Hours Required in Art: 15-18

Hours Required in Other Departments: 3-0

Total Hours Required: 18

Summary of Requirements for Minor in Art History

Minor

1. Basic Courses:

(3 hours)

Choose from:

ART 100 Art Appreciation (*GEP Group A*)

HIST 100 The Twentieth Century World (*GEP Group B or Group F*)

2. Core Courses:

(12 hours)

ART 301 Artistic Traditions: Asia (*GEP Group F*)

or ART 302 Artistic Traditions: Africa and the Americas (*GEP Group F*)

ART 360 Western Art History

ART 408 20th Century Art History

ART 415 Art Criticism

3. Elective:

(3 hours)

Choose from:

ART 370 Women/Gender and the Visual Arts

ART 380 19th Century Art History

ART 430 Greek and Roman Art

ART 460 Renaissance and Baroque Art History

Biology

Major

Minor

Pre-health Professions Option

Concentrations in

- biotechnology
- environmental science

Teaching Certification Option

See related programs:

- environmental analysis & planning
- ethnobotany
- forestry
- interpretive biology & natural history
- wildlife & fisheries

Professors:Harman, Morton, Raesly,
Yoder**Associate Professors:**Li, Pegg, Seddon (Chair),
Serfass**Assistant Professors:**

Ammer, Fritz, Ghioca

- You may elect the teaching certification option (internship required). Select the biology major without concentration to meet certification requirements.

	For Major	For Minor	Pre-Health Prof. Option	Biotech. Concen.	Env. Science Concen.	Teaching Cert. Option
Hours Required in Biology:	40-41	24	40-41	43-44	42	40-41
Hours Required in Other Depts.:	32	0	32	39-40	43	74.5
Total Hours Required:	72-73	24	72-73	82-84	85	114.5-115.5

Summary of Requirements for Major/Minor in Biology

Major	Minor
1. Introductory Level Courses: <i>(8 hours)</i> BIOL 149 General Biology I (<i>GEP Group C</i>) BIOL 150 General Biology II	<i>(8 hours)</i> BIOL 149 General Biology I (<i>GEP Group C</i>) BIOL 150 General Biology II
2. Advanced Level Courses: <i>(16 hours)</i> BIOL 304 Microbiology BIOL 310 Cell Biology BIOL 340 General Ecology BIOL 350 Genetics BIOL 496 Seminar in Biology (<i>Capstone</i>)	
3. Distribution Within Department: <i>(16-17 hours)</i> <i>Total of 4 courses in 3 groups; at least 1 in each group:</i> Group I BIOL 302 Animal Physiology BIOL 303 Plant Physiology Group II BIOL 411 Invertebrate Zoology <i>Either</i> BIOL 327 Comparative Anatomy <i>or</i> BIOL 426 Vertebrate Zoology Group III BIOL 311 Morphology of Fungi and Non-Vascular Plants BIOL 312 Morphology of Vascular Plants	
4. Elective Hours in Department: <i>(0 hours)</i>	<i>(16 hours)</i> <i>Select from biology courses at the 200 level or higher.</i>
5. Required Courses in Other Departments: Chemistry: <i>(18 hours)</i> CHEM 101, 102 General Chemistry (<i>CHEM 101-GEP Group C</i>) CHEM 301, 302 Organic Chemistry Mathematics: <i>(6 hours)</i> MATH 209 Elements of Applied Probability & Statistics (<i>Core Skill 3</i>) <i>or</i> MATH 219 Honors: Elements of Applied Probability & Statistics (<i>Core Skill 3</i>) <i>Select one from:</i> MATH 102 College Algebra (<i>Core Skill 3</i>) MATH 103 Trigonometry MATH 120 Pre-Calculus Mathematics (<i>Core Skill 3</i>) <i>or any course above 210</i> Physics: <i>(8 hours)</i> PHYS 215, 216 General Physics I and II (<i>PHYS 215-GEP Group C</i>) <i>or</i> PHYS 261, 262 Principles of Physics I and II (<i>PHYS 261-GEP Group C</i>)	

- Biology is often selected as a major by students planning to enter medicine and other health professions careers. If you plan advanced study in the health professions, you should choose the pre-health professions option.
- If you are a pre-physical therapy or pre-occupational therapy student, you should consult individual allied health program listings for specific program requirements. If you are interested in pursuing graduate studies in other areas of Biology, you should not choose this option.

Pre-Health Professions Option for Biology Majors (Pre-Dental, Pre-Medical, Pre-Optometry and Pre-Veterinary)

1. Introductory Level Courses:

(8 hours)

BIOL 149 General Biology I (GEP Group C)

BIOL 150 General Biology II

2. Advanced Level Courses:

(28-29 hours)

BIOL 302 Animal Physiology*

BIOL 304 Microbiology

BIOL 310 Cell Biology

BIOL 311 Morphology of Fungi and Non-Vascular Plants

or BIOL 312 Morphology of Vascular Plants

BIOL 327 Comparative Anatomy*

BIOL 340 General Ecology

BIOL 350 Genetics

BIOL 496 Seminar in Biology (Capstone)

3. Elective Hours in Biology Department:

(4 hours)

Choose one course:

BIOL 306 Vertebrate Embryology

BIOL 404 Histology

BIOL 412 General Parasitology

**Only students interested in a career in Physical Therapy or Occupational Therapy should take BIOL 201 (Anatomy and Physiology I) and BIOL 202 (Anatomy and Physiology II) in place of BIOL 302 (Animal Physiology) and BIOL 327 (Comparative Anatomy). All other program requirements are the same as for the Pre-Health Professions Option for Biology Majors.*

4. Required Advanced Courses in Other Departments:

(32 hours)

Same as major. See #5 above.

- The biotechnology concentration in biology offers you an interdisciplinary program with a strong emphasis on laboratory experiences in biology and chemistry, while maintaining a strong biology core. The option is best suited for students who wish to pursue an advanced degree in cell or molecular biology or to find employment in the biotechnology industry.

Summary of Requirements for Major in Biology - Biotechnology Concentration

1. Introductory Level Courses:

(8 hours)

BIOL 149 General Biology I (GEP Group C)

BIOL 150 General Biology II

2. Advanced Level Courses:

(15 hours)

BIOL 304 Microbiology

BIOL 310 Cell Biology

BIOL 340 General Ecology

BIOL 350 Genetics

3. Biotechnology Option:

(17 hours)

BIOL 401 Genetics Lab

BIOL 435 Molecular Biology

BIOL 437 Molecular Biology Seminar (Capstone)

BIOL 438 Biotechnology Laboratory (3 hours)

BIOL 440 Developmental Biology

BIOL 445 Immunology

4. Select one from:*(3-4 hours)*

BIOL 302 Animal Physiology
 BIOL 303 Plant Physiology
 BIOL 404 Histology
 BIOL 436 Electron Microscopy
 BIOL 499 Special Problems in Biology
 or IDIS 493 Honors Thesis

5. Required Courses in Other Departments:**Chemistry:***(25 hours)*

CHEM 101 General Chemistry I (*GEP Group C*)
 CHEM 102 General Chemistry II
 CHEM 301 Organic Chemistry I
 CHEM 302 Organic Chemistry II
 CHEM 455 Biochemistry I
 CHEM 456 Biochemistry Lab
 CHEM 457 Biochemistry II

Mathematics:*(6-7 hours)*

MATH 209 Elements of Applied Probability & Statistics (*Core Skill 3*)
 or Math 219 Honors: Elements of Applied Probability & Statistics (*Core Skill 3*)

Select one from:

MATH 220 Calculus for Applications I
 MATH 236 Calculus I (*Core Skill 3*)

Physics:*(8 hours)*

PHYS 215, 216 General Physics I and II (*PHYS 215 - GEP Group C*)
 or PHYS 261, 262 Principles of Physics I and II (*PHYS 261 - GEP Group C*)

- For students interested in the stewardship of natural resources with a greater emphasis on economic and political perspectives.
- This concentration allows you to choose electives in economics, political science and the humanities which potentially add a thematic direction to your degree.
- You should not choose this concentration if you are in pre-health professions or planning to attend a traditional biology graduate program.

Summary of Requirements for Major in Biology - Environmental Science Concentration

1. Introductory Level Courses:*(18 hours)*

BIOL 149 General Biology I (*GEP Group C*)
 BIOL 150 General Biology II
 ECON 201/211* Macroeconomics (*GEP Group D*)
 GEOG 103/113* Physical Geography (*GEP Group C*)
 POSC 110/112* Introduction to American Politics (*GEP Group D*)
 or POSC 113/114* Introduction to World Politics (*GEP Group D*)
 or POSC 131 Introduction to Comparative Politics (*GEP Group D or F*)
(Check the prerequisites for other POSC courses before choosing your introductory POSC course)

2. Advanced Level Courses:*(40 hours)*

BIOL 200 Scientific Investigation and Communication
 BIOL 304 Microbiology
 BIOL 310 Cell Biology
 BIOL 340 General Ecology
 BIOL 350 Genetics
 BIOL 406 Ornithology
 or BIOL 423 Mammalogy
 or BIOL 426 Vertebrate Zoology
 BIOL 425 Forest Science
 BIOL 450 Ecology and Management of Wildlife Populations
 or BIOL 420 Fish Management and Culture
 GEOG 473 Environmental Law
 ECON 202 Microeconomics
 BIOL 494 Field Experiences in Biological Sciences (*Capstone - 6 credits*)

3. Required Supporting Courses:*(18 hours)*CHEM 101 General Chemistry I (*GEP Group C*)

CHEM 102 General Chemistry II

CHEM 420 Environmental Chemical Analysis

MATH 209/219* Elements of Applied Probability & Statistics (*Core Skill 3*)MATH 102 College Algebra (*Core Skill 3*)*or* MATH 103 Trigonometry*or* MATH 120 Pre-Calculus Mathematics (*Core Skill 3*)*or any MATH course above 210***4. Electives:***(9 hours)**Select at least three courses listed below. At least one course must be taken from each group.***Group I Advanced Economics**

ECON 309 Comparative Economic Systems

ECON 405 Economic Growth and Development: The Developing Economies

Group II Advanced Political Science

POSC 330 Politics of Africa

POSC 331 Politics of Latin America

POSC 332 Politics of the Middle East

POSC 450 Environmental Public Policy

GEOG 407 Political Geography

Group III Advanced Humanities

ENGL 440 Literature of the Environment

HIST 309 World Environmental History

PHIL 315 Philosophy and the Environment

Summary of Requirements for Teaching Certification Option in Biology

If you wish to complete a Maryland State approved program in teaching Biology, you must:

- Complete the BA/BS in Biology (without concentration).
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: Secondary School Programs.

Interpretive Biology and Natural History

Major

See related programs:

- biology
 - pre-health option
 - biotechnology
 - environmental science
- environmental analysis & planning
- ethnobotany
- forestry
- wildlife & fisheries

Coordinator:

Frank Ammer, Assistant
Professor, Department of
Biology

Professors:

Harman, Morton, Raesly,
Yoder

Associate Professors:

Li, Pegg, Seddon, Serfass

Assistant Professors:

Ammer, Fritz, Ghioca

For Major

Hours Required in Biology: 44-55

Hours Required in Other Departments: 23-30

Total Hours Required: 74-78

Summary of Requirements for Major in Interpretive Biology and Natural History

Major

1. Introductory Level Courses:

(8 hours)

BIOL 149 General Biology I (*GEP Group C*)

BIOL 150 General Biology II

2. Advanced Level Courses

(32-35 hours)

BIOL 230 Wildlife Techniques

BIOL 309 General Entomology

BIOL 314 Plant Taxonomy

BIOL 334 General Animal Behavior

BIOL 340 General Ecology

BIOL 406 Ornithology

BIOL 411 Invertebrate Zoology

BIOL 426 Vertebrate Zoology

BIOL 494 Field Experiences in Biological Sciences (*minimum 3 credits*) (*Capstone*)

3. Electives:

Select 11-12 hours from among the following:

BIOL 305 Dendrology

BIOL 311 Morphology of Fungi and Non-Vascular Plants

BIOL 312 Morphology of Vascular Plants

BIOL 402 Evolution

BIOL 417 Ichthyology

BIOL 422 Herpetology

BIOL 425 Forest Science

BIOL 423 Mammalogy

BIOL 430 Introductory Limnology

GEOG 208 Historical Geology

GEOG 445 Biogeography

4. Required Courses in Other Departments

(23 hours)

CHEM 101 General Chemistry I (*GEP Group C*)

CMST 102/112 Introduction to Human Communication

COSC 100/110 Introduction to Computer Science (*Tech. Fluency*)

GEOG 103/113 Physical Geography (*GEP Group C*)

MATH 209/219 Elements of Applied Probability and Statistics (*Core Skill 3*)

RECR 330 Outdoor Education

RECR 342 Park and Facility Design

5. Suggested (Optional) Courses in Other Departments

ART 235 Photography

CMST 322 Presentational Communication

ENGL 336 Journalistic Writing

PHSC 210 Descriptive Astronomy

PHSC 211 Descriptive Astronomy Laboratory

RECR 201 Introduction to Recreation and Parks

Chemistry

Major

Minor

Track in:

- traditional chemistry

Concentrations in:

- professional chemistry
- biochemistry

Teaching certification option

Professors:

Larivee (Chair), F. Senese,
Weser

Associate Professors:

Mumper

Assistant Professor:

Biser, Simon

- All chemistry majors must take the core courses and select either the Traditional Track, Professional Concentration, Biochemistry Concentration or Teaching Certification Option to fulfill requirements for the major. The Traditional Track is recommended for students wishing to double major.
- Chemistry is often selected as a major by students planning to enter health professions careers. The Biochemistry Concentration is a suitable choice. (See the section on Health Professions Preparation of this catalog.)
- The Professional Concentration is a strong program for graduate school preparation.

	Trad. Track	For Major Profess. Con.	Biochem. Con.	Teaching Certification	For Minor
Hours Required in Chemistry:	38	48	40	41	25
Hours Required in Other Departments:	20	20	31	66.5	0
Total Hours Required:	58	68	71	107.5	25

Summary of Requirements for Major/Minor in Chemistry

Major	Minor
1. Core Introductory Level Courses: <i>(8 hours)</i> CHEM 101 General Chemistry I <i>(GEP Group C)</i> CHEM 102 General Chemistry II	<i>(8 hours)</i> CHEM 101 General Chemistry I <i>(GEP Group C)</i> CHEM 102 General Chemistry II
2. Core Advanced Courses: <i>(22 hours)</i> CHEM 300 Computational Tech. in Chem CHEM 301 Organic Chemistry I CHEM 302 Organic Chemistry II CHEM 320 Quantitative Anal. Chem. CHEM 441 Physical Chem. Lecture I CHEM 445 Physical Chemistry Lab I CHEM 491 Seminar in Chemistry CHEM 492 Capstone Experience	<i>(17 hours)</i> CHEM 301 Organic Chemistry I CHEM 302 Organic Chemistry II <i>and 7 additional hours in Chemistry, 300 level or above, except CHEM 491 Seminar in Chemistry, CHEM 492 Capstone Experience, CHEM 493 Advanced Chemical Research, CHEM 495 Internship in Chemistry, and CHEM 499 Special Problems in Chemistry</i>
3. Required Courses in Other Departments: Mathematics: <i>(8 hours)</i> MATH 236 Calculus I <i>(Core Skill 3)</i> MATH 237 Calculus II Physics: <i>(8 hours)</i> PHYS 215, 216 General Physics I, II <i>(215: GEP Group C)</i> <i>or PHYS 261, 262 Principles of Physics I, II (261: GEP Group C)</i>	
4. Choice of Specialization: <i>(12 - 61.5 hours)</i> Majors must choose the Traditional Track, Professional Concentration, Biochemistry Concentration or Teaching Certification Option. Requirements listed below.	

5. All majors must earn a C or better in CHEM 101, 102, 301, 302, 320.

Requirements for the Traditional Track for Chemistry Majors

- Core Courses:**
(46 hours)
Required of all Chemistry majors, listed above
- Advanced Courses:**
(8 hours)
CHEM 421 Instrumental Analysis
CHEM 442 Physical Chemistry II
CHEM 446 Physical Chemistry Lab II
- Required Courses in Mathematics:**
(4 hours)
MATH 238 Calculus III
- All majors in this track must earn a C or better in CHEM 441.**

Requirements for the Professional Concentration for Chemistry Majors

1. **Core Courses:**
(46 hours)
Required of all Chemistry majors, listed above.
2. **Additional Core Courses:**
(12 hours)
CHEM 411 Advanced Inorganic Chemistry
CHEM 421 Instrumental Analysis
CHEM 442 Physical Chemistry II
CHEM 446 Physical Chemistry Lab II
3. **Advanced Courses**
(6-7 hours)
CHEM 455 Biochemistry I
CHEM 493 Advanced Chemistry Research (1-3 hours)
If less than three hours of CHEM 493 are taken, then one additional advanced course from among the following is required:
CHEM 438 Advanced Organic Chemistry
CHEM 457 Biochemistry II
CHEM 460 Environmental Chemistry
CHEM 490 Selected Topics in Chemistry
4. **Required Courses in Other Departments**
Mathematics: (4 hours)
MATH 238 Calculus III
5. **All majors in this concentration must earn a C or better in CHEM 441.**

Requirements for the Biochemistry Concentration for Chemistry Majors (Pre-Dental, Pre-Medical, Pre-Optometry, Pre-Veterinary, Pre-Pharmacy)

1. **Core Courses:**
(46 hours)
Required of all Chemistry majors, listed above.
2. **Advanced Courses:**
(7 hours)
CHEM 455 Biochemistry I
CHEM 456 Biochemistry Lab
CHEM 457 Biochemistry II
3. **Required Courses in Biology:**
(15 hours)
BIOL 149 General Biology I (GEP Group C)
BIOL 304 Microbiology
BIOL 350 Genetics
BIOL 435 Molecular Biology
4. **Required Electives:**
(3-4 hours)
Select from among:
CHEM 411 Advanced Inorganic Chemistry
CHEM 420 Environmental Chemical Analysis
CHEM 421 Instrumental Analysis
CHEM 442 Physical Chemistry II
CHEM 493 Advanced Chemistry Research (3 hours minimum)
MATH 238 Calculus III
5. **All majors in this concentration must earn a C or better in CHEM 455.**

Requirements for the Teaching Certification Option in Chemistry

1. **Core Courses:**
(46 hours)
Required of all Chemistry majors, listed above.
2. **Advanced Courses:**
(11 hours)
CHEM 442 Physical Chemistry II
CHEM 446 Physical Chemistry Lab II
CHEM 455 Biochemistry I
CHEM 460 Environmental Chemistry
CHEM 493 Advanced Chemistry Research (1 hour)
3. **Required Courses in Other Departments**
(8 hours)
MATH 238 Calculus III
BIOL 149 General Biology (GEP Group C)
4. **Required Courses in Education**
(42.5 hours)
See Professional Education sequence for Secondary Programs in the Educational Professions section of this catalog.

Communication Studies

Major

Minor

Professors:

Routhier, M. Wallinger

Assistant Professor:

Ruminski

Lecturer:

R. Wallinger

- Only courses in which you earn a grade of C or better may count towards satisfaction of major or minor requirements.
- All grades earned in courses completed for the major in Communication Studies count in determining whether you meet the graduation requirement of a 2.0 cumulative grade point average in the major.

	For Major	For Minor
Hours Required in Communication Studies:	21-33	21
Hours Required in Other Departments:	6-18	3
Total Hours Required:	39	24

Summary of Requirements for Major/Minor In Communication Studies

Major	Minor
<p>1. Communication Studies Core Courses: (18 hours) <i>All of the following:</i> CMST 102/112 Intro. to Human Comm. CMST 300 Interpersonal Communication CMST 302 Argumentation & Advocacy CMST 312 Language Behavior & Comm. CMST 485 Issues & Responsibilities of Comm. <i>and one from:</i> CMST 422 Seminar in Comm. Analysis CMST 451 Seminar in Communication Theory</p> <p>2. Communication Studies Tracks: (12 hours) <i>Select one of the following tracks:</i></p> <p>a. Professional Communication CMST 215 Small Group Communication CMST 225 Interviewing CMST 322 Presentational Communication CMST 335 Organizational Communication</p> <p>b. Interdisciplinary Track Select an additional four courses to create a definable Communication Studies Track. <i>This option requires the collaboration and written approval of your faculty advisor.</i> You may select courses in art and design, business administration, communication studies, computer science, English, mass communication, philosophy, political science, psychology, and sociology.</p> <p>3. Practicum: (3 hours) You are required to participate in a three-credit Practicum. This requirement may be met by completing three credits of CMST 494 Communication Studies Practicum, or by completing the graded academic portion of the internship course CMST 492 Internship Project. (<i>Capstone</i>)</p> <p>4. Required Courses in Other Departments: (6 hours) COSC 100 Introduction to Computer Science (<i>Tech. Fluency</i>) MCOM 105 Intro. to Mass Communication</p>	<p>(21 hours) <i>All of the following:</i> CMST 102/112 Intro. to Human Communication CMST 485 Issues & Responsibilities of Communication <i>and one from:</i> CMST 300 Interpersonal Communication CMST 302 Argumentation and Advocacy CMST 312 Language Behavior & Comm. <i>and one from:</i> CMST 422 Seminar in Comm. Analysis CMST 451 Seminar in Communication Theory <i>and three additional courses from:</i> CMST 215 Small Group Communication CMST 225 Interviewing CMST 300 Interpersonal Communication CMST 302 Argumentation and Advocacy CMST 312 Language Behavior & Comm. CMST 322 Presentational Communication CMST 335 Organizational Communication CMST 422 Seminar in Comm. Analysis CMST 451 Seminar in Communication Theory</p> <p>2. Required Courses in Other Departments: (3 hours) MCOM 105 Intro. to Mass Communication</p>

Computer Print Graphics

Certificate

Professors:

Brown, Davis, Dieruf,
Llewellyn

Associate Professor:

Rhodes (chair)

Assistant Professor:

Herzfeld, Hodges

- The certificate in Computer Print Graphics is offered by the Department of Visual Arts. The department also offers a B.F.A. in Art and Design and minors in art history, fine arts, and graphic design.
- You should consider this certificate if you are a degree-seeking student in another major who would like to acquire additional skills to enhance your professional marketability or a community member seeking professional education in the technology sector.
- Classes are scheduled so you can complete the certificate in four semesters.

	For Certificate
Hours Required in Art:	24
Hours Required in Other Departments:	0
Total Hours Required:	24

The certificate in Computer Print Graphics is designed to assist you to:

- Understand the role a computer plays in a graphic designer's career
- Learn the basic functions of the Macintosh computer
- Gain fundamental knowledge of graphic applications like QuarkXpress, Adobe Illustrator, Adobe Photoshop
- Learn reproduction and manipulation of scanned images
- Create comprehensive layouts
- Develop a personal design style and vocabulary based on knowledge of past and contemporary design trends, materials, and commercial printing techniques.

Students may transfer a maximum of 12 credits into the program selected from ART 104, ART 105, ART 207, ART 212, and ART 412.

Summary of Requirements for Certificate in Computer Print Graphics

Certificate

1. Required Courses:

(24 hours)

ART 104 Two-dimensional Design

ART 105 Three-dimensional Design

ART 207 Graphic Design

ART 212 Drawing

ART 307 Computer Graphics

ART 407 Advanced Graphic Design - Print (Level I)

ART 407 Advanced Graphic Design - Print (Level II)

ART 412 Advanced Drawing

College-level proficiency in English is required, as evidenced by a passing score on the English placement exam, completion of ENGL 101 or completion of its equivalent at another institution.

Computer Science

Major

Minor

Concentrations in

- information systems
- networks

Certificates in

- computing technology
- software development
- programming
- networking

Professors:

Chitsaz, Rinard (Chair),
Tracy

Associate Professor:

Thiel

Assistant Professor:

Crall, Liu

- Computer Science courses must have a grade of C or better to be applied towards major or minor requirements.
- You will be de-registered from any computer science course for which you have not earned a C or better in the prerequisite computer science course(s).
- You may receive credit by examination for the following courses: COSC 100, 240, 350.
- The Department of Computer Science also offers four certificates to students in other majors and community members. (See separate section).

	For Major	For Info. Systems Concentration	For Networks Concentration	For Minor
Hours Required in Computer Science:	46	46	52	20
Hours Required in Other Departments:	20	18-19	13	0
Total Hours Required:	66	64-65	65	20

Summary of Requirements for Major/Minor in Computer Science

Major	Minor
1. Core Courses: <i>(22 hours)</i> COSC 101 The Discipline of Computer Science COSC 240 Computer Science I COSC 241 Computer Science II COSC 325 Software Engineering COSC 365 Digital Logic & Computer Design COSC 460 Operating Systems Concepts COSC 489 Computer Science Capstone	<i>(11 hours)</i> COSC 101 The Discipline of Computer Science COSC 240 Computer Science I COSC 241 Computer Science II
2. Required Advanced Courses: <i>(15 hours)</i> COSC 310 Data Structures & File Organization COSC 331 Fundamentals of Computer Networks COSC 350 Computer Org. & Assembly Language COSC 450 Programming Language Structures COSC 470 Compiler Designs and Constructions	
3. Other Required Courses: Mathematics <i>(14 hours)</i> MATH 236, 237 Calculus I, II (<i>MATH 236 - Core Skill 3</i>) MATH 350 Linear Algebra I or MATH 432 Differential Equations or MATH 435 Numerical Analysis or MATH 437 Combinatorics and Graph Theory or MATH 470 Mathematical Models and Applications MATH 380 Introduction to Probability & Statistics Other <i>(6 hours)</i> CMST 102 Introduction to Human Communication ENGL 338 Technical Writing (<i>Core Skill 2</i>)	
4. Electives: <i>(9 hours)</i> <i>Three additional computer science courses from:</i> COSC 305 Computer Ethics COSC 335 Network Architecture Design COSC 345 The Internet and Multimedia Communications COSC 390 Topics in Modern Programming Languages COSC 415 Computer Interfacing COSC 420 Robotics and Industrial Computer Applications COSC 431 Secure Computing COSC 435 Network Implementation and Testing COSC 440 Database Management Systems COSC 444 Introduction to Distributed Programming COSC 445 Network and Distributed System Management COSC 455 Artificial Intelligence COSC 465 Computer Systems Architecture COSC 475 Interactive Computer Graphics COSC 485 Theory of Computation COSC 491 Seminar in Computer Science COSC 494 Field Exp. in Computer/Information Science COSC 499 Individual Problems in Computer Science	<i>(9 hours)</i> <i>Three additional computer science courses.</i> <i>Two must be at the 300-level or above.</i>

Requirements for Major Concentrating in Information Systems

1. Core Courses:

(22 hours)

COSC 101 The Discipline of Computer Science
 COSC 240 Computer Science I
 COSC 241 Computer Science II
 COSC 325 Software Engineering
 COSC 365 Digital Logic & Computer Design
 COSC 460 Operating Systems Concepts
 COSC 489 Computer Science Capstone

2. Required Advanced Courses:

(15 hours)

COSC 300 Structured System Analysis and Design
 COSC 335 Network Architecture Design
 COSC 380 Computer-Based Information Systems
 COSC 440 Database Management Systems
 COSC 480 Knowledge-Based Systems

3. Other Required Courses:

Mathematics (6-7 hours)

MATH 220 Calculus for Applications

or MATH 236 Calculus I (*Core Skill 3*)

MATH 209/219 Elements of Applied Probability & Statistics (*Core Skill 3*)

or MATH 380 Intro. to Probability & Statistics

Other (9 hours)

ACCT 211 Financial Accounting

CMST 102 Introduction to Human Communication

ENGL 338 Technical Writing (*Core Skill 2*)

4. Electives:

(9 hours)

Three additional computer science courses from:

COSC 305 Computer Ethics
 COSC 320 Business Programming
 COSC 331 Fundamentals of Computer Networks
 COSC 345 The Internet and Multimedia Communications
 COSC 350 Computer Organization and Assembly Language
 COSC 390 Topics in Modern Programming Languages
 COSC 431 Secure Computing
 COSC 491 Seminar in Computer Science
 COSC 494 Field Experience in Computer/Information Science
 COSC 499 Individual Problems in Computer Science

5. Elective in Business

(3 hours)

Any 300- or 400-level course in Business Administration (BUAD, FINA, MGMT, MKTG)

Requirements for Major Concentrating in Networks

1. Core Courses:

(22 hours)

COSC 101 The Discipline of Computer Science
 COSC 240 Computer Science I
 COSC 241 Computer Science II
 COSC 325 Software Engineering
 COSC 365 Digital Logic & Computer Design
 COSC 460 Operating Systems Concepts
 COSC 489 Computer Science Capstone

2. Required Advanced Courses:

(18 hours)

COSC 331 Fundamentals of Computer Networks
 COSC 335 Network Architecture Design
 COSC 345 The Internet and Multimedia Communications
 COSC 431 Secure Computing
 COSC 435 Network Implementation and Testing
 COSC 444 Introduction to Distributed Programming

3. Other Required Courses:

Mathematics (7 hours)

MATH 209/219 Elements of Applied Probability & Statistics (*Core Skill 3*)
 or MATH 380 Introduction to Probability & Statistics
 MATH 236 Calculus I (*Core Skill 3*)

Other:

(6 hours)

CMST 102 Introduction to Human Communication
 ENGL 338 Technical Writing (*Core Skill 2*)

4. Electives:

(12 hours)

Four additional computer science courses from:

COSC 305 Computer Ethics
 COSC 310 Data Structures and File Organization
 COSC 350 Computer Organization and Assembly Language
 COSC 390 Topics in Modern Programming Languages
 COSC 445 Network and Distributed System Management
 COSC 450 Programming Language Structures
 COSC 455 Artificial Intelligence
 COSC 465 Computer Systems Architecture
 COSC 485 Theory of Computation
 COSC 491 Seminar in Computer Science
 COSC 494 Field Experience in Computer/Information Science
 COSC 499 Individual Problems in Computer Science

 Certificates in

- computing technology
 - software development
 - programming
 - networking
-

The four **computer science certificates** offer learning opportunities to a range of students, from computing novices to computing professionals. Interested students might include:

- Degree-seeking undergraduates in any major who wish to develop computing skills beyond those required in their degree program. The certificate represents a credential that may enhance career opportunities in any field.
- Non-degree-seeking students who wish to develop computing and technical skills to increase opportunities for employment.
- Bachelor's degree holders and professionals in the field looking for career enhancement or change.
- If you are completing the networks concentration in the computer science major you cannot earn the networking certificate.

Computing Technology

- A course of study for a learner with little or no computing experience looking to develop a solid skill set in computing basics.

(12 hours)

COSC 100/110 Introduction to Computer Science (*You may test out of COSC 100/110*) (Tech. Fluency)

COSC 120 Introduction to Cyberspace

COSC 130 Introduction to Programming

COSC 220 Introduction to Software Applications

Software Development

- A study of programming fundamentals and software development methods for a student with basic computing skills.

(14 hours)

COSC 101 The Discipline of Computer Science

COSC 240 Computer Science I

COSC 241 Computer Science II

COSC 325 Software Engineering

Programming

- A study sequence for students with basic computing skills that provides a foundation in computer programming fundamentals and working expertise in an object-oriented programming language.

(14 hours)

COSC 101 The Discipline of Computer Science

COSC 240 Computer Science I

COSC 241 Computer Science II

And one of the following:

COSC 310 Data Structures & File Organization

COSC 390 Topics in Modern Programming Languages

Networking

- A study sequence for students with programming experience wishing to develop expertise in network theory, design, and application. Permission of department chair required.

(17 hours)

COSC 241 Computer Science II (*COSC 240 is prerequisite for COSC 241. Students may test out of COSC 240*)

COSC 335 Network Architecture and Design

COSC 365 Digital Logic and Computer Design

COSC 435 Network Implementation and Testing

COSC 445 Network and Distributed System Management

Criminal Justice

Collaborative Program

Major

Coordinator:

David Lewis, Associate
Professor, Department of
Political Science

Coordinating Committee:

Professors:

T. Mappes (Philosophy)

Associate Professors:

Johnson, Lewis (Political
Science), Olson (Sociology)

Assistant Professor:

McMullen (Sociology)

- If you do not have a criminal justice degree from a community college, you are not eligible for this major. Students who do not hold an AAS in criminal justice should see the Law and Society major with concentrations in criminal justice and legal studies for additional paths to careers in law and law enforcement.
- If you complete the major in criminal justice, you will earn the Bachelor of Technical and Professional Studies (BTPS) degree.
- Since criminal justice is an interdisciplinary program, grades in all program courses completed at FSU count in the major grade point average.
- Six to nine credits of field experience or internship are required.
- This program is offered at the Frostburg campus and at the University System of Maryland at Hagerstown.

	For Major
Hours required at the community college partner	62-70
Hours required at Frostburg State University	50-58
Total Hours Required	120

The Bachelor of Technical and Professional Studies degree in criminal justice is a collaborative program between Frostburg State University and Allegany College of Maryland, Hagerstown Community College and Frederick Community College. The program is designed to provide advanced career opportunities for students who hold an Associate of Applied Science degree in criminal justice from ACM, HCC or FCC, or an A.A. degree in criminal justice from FCC. If you hold a similar degree from another program, you may be considered for admission based on an articulation agreement between FSU and the other undergraduate institution.

Students who do not hold an AAS in criminal justice should see the Law and Society major with concentrations in criminal justice and legal studies

The program is designed to prepare students for advancement in careers in law enforcement, corrections, and probation and parole. Building on the technical skills gained in the associate degree program, and on experience in the field, the baccalaureate program will enhance your understanding of societal issues, political processes, and administrative structures that impact the criminal justice system, and provide opportunities to hone your research and management skills.

Summary of Requirements for a Major in Criminal Justice

1. An Associate of Applied Science in Criminal Justice degree from Allegany College of Maryland, or an Associate of Applied Science in Administration of Justice from Hagerstown Community College or an Associate's or Associate of Applied Science degree in Criminal Justice from Frederick Community College. A maximum of 70 credits will transfer from all community colleges you have attended.

2. General Education Requirements:

You must complete a minimum of 40 credits in general education as part of the baccalaureate program, including an advanced writing course that must be completed at FSU.

3. Program Core Courses at:

A. Allegany College of Maryland

(39 hours)

Criminal Justice 101 Introduction to Criminal Justice
Criminal Justice 102 Police Administration and Organization
Criminal Justice 103 Criminal Law
Criminal Justice 104 Criminal Evidence and Procedure
Criminal Justice 105 Criminal Investigation
Criminal Justice 106 Introduction to Corrections
Criminal Justice 108 American Courts and Legal System
Criminal Justice 201 Criminalistics
Political Science 101 American National Government
Political Science/Criminal Justice 205 American Constitutional Law
Psychology 101 General Psychology
Psychology 202 Human Adjustment or Psychology 205 Abnormal Psychology
Sociology 101 Introduction to Sociology

B. Hagerstown Community College

(27 hours)

ADJ 101 Intro to Criminal Justice
ADJ 201 Law Enforcement/Community
ADJ 204 Criminal Investigation
ADJ 208 Police Management
ADJ 209 Corrections Management
POL 101 American Government
POL 202 Constitutional Law
PSY 201 General Psychology
SOC 103 Criminology

C. Frederick Community College*(27 hours)*

CJ 101 Intro to Criminal Justice
 CJ 110 Criminal Law
 CJ 204 Police Operational Services
 CJ 214 The Correctional Process
 CJ 220 Criminal Evidence and Procedure
 CM or CMSP 103 Speech Fundamentals
 PI 104 American Government National
 PS 101 Intro to Psychology
 SO 201 Criminology

4. Frostburg Campus:**A. Program Core Courses:***(34 hours)*

POSC 311 Research Methods *or* SOCI 311 Basic Research Methods
 POSC 321 State and Local Politics
 POSC 323 Public Administration
 POSC 423 American Constitutional Law II
 POSC 489 Law & Society Capstone *(1 credit)*
 POSC 492 Internship Seminar *(3 credits)*
 POSC 495 Internship in Political Science *(6 credits)*
 SOCI 200 Social Problems *or* SOCI 203 Deviant Behavior
 SOCI 305 Racial and Cultural Minorities *(GEP Group F)*
 SOCI 340 Criminology
 SOCI 442 Juvenile Delinquency

B. Program Elective Courses:*(6 hours)**Select from:*

MGMT 351 Management of Organizations
 MGMT 356 Leadership and Interpersonal Skills*
 MGMT 357 Human Resources Management*
 PSYC 386 Drugs and Human Behavior
 PHIL 304 Social Philosophy
 PHIL 410 Philosophy of Law

5. USM at Hagerstown:**A. Program Core Courses:***(28-31 hours)*

CRJU 490 Advanced Topics in Criminal Justice (6 hours)
 CRJU 494 Field Experience (6-9 hours)
 ENGL 338 Technical Writing *or* ENGL 330 Business Writing
 POSC 323 Public Administration
 POSC 423 Constitutional Law II
 POSC 489 Law & Society Capstone *(1 credit)*
 SOCI 311 Basic Research Methods
 SOCI 442 Juvenile Delinquency

B. Program Elective Courses:*(6 hours)**Select from:*

MGMT 351 Management of Organizations
 MGMT 356 Leadership and Human Behavior*
 MGMT 357 Human Resource Management*
 POSC 321 State and Local Politics
 POSC 358 American Public Policy
 POSC 422 American Constitutional Law I

**Requires MGMT 351 as prerequisite*

Cultural Anthropology

Minor

Coordinator:

Kara Rogers-Thomas,
Assistant Professor,
Department of Sociology

- You cannot major in Cultural Anthropology.

For minor:

Hours Required in Sociology:	9-12
Hours Required in Other Departments:	6-9
Total Hours Required:	18

Summary of Requirements for Minor in Cultural Anthropology

Minor

1. Basic Courses:

(9 hours)

SOCI 100/111 Intro to Sociology (GEP Group D)

SOCI 224 Cultural Anthropology (GEP Group F)

SOCI 362 Sociology of Religion

2. Distribution of Electives:

(9 hours)

At least 6 of which must be in two different disciplines other than Sociology.

AAST 300/HIST 301 Traditional Africa

AAST 400 Africans of the Diaspora

ART 302 Artistic Traditions: Africa and the Americas

BIOL 128 Introduction to Ethnobotany

BIOL 484 Field Experiences in Ethnobotany and Ecology

ENGL 280 Mythology and Literature

GEOG 104/114 Human Geography (GEP Group D)

GEOG 110 World Regional Geography

GEOG 320 Geography of Latin America

or GEOG 403 The Geography of Sub-Saharan Africa

HIST 318 Native Peoples of the Americas

INST 100 Introduction to International Studies

INST 150 Introduction to World Religions

MUSC 117 Music of Africa, Asia, and the Americas

SOCI 350 Folklore in Appalachia

SOCI 334 Gender and Social Life

SOCI 306 The Sociology of African Americans

SPAN 406 Literature and Culture of the Andean Region

Dance

Minor

Coordinator:

See Co-Chair, Division of
Performing Arts

Associate Professor:

Fischer

- You are required to participate in either the annual Fall or Spring Dance Concert.
- You may not receive credit for both a DANC course and the same course formerly labelled PHEC.
- You cannot major in Dance.

For Minor

Hours Required in Dance:

23

Hours Required in Other Departments:

2-3

Total Hours Required:

25-26

Summary of Requirements for Minor in Dance

Minor

1. Courses in Dance Technique:

(13 hours)

DANC 131 Ballet I

DANC 142 Modern I

DANC 154 Jazz I

DANC 231 Ballet II

DANC 242 Modern II

DANC 254 Jazz II

DANC 342 Modern III

2. Courses in Dance Composition and Theory

(10 hours)

DANC 110 Dance Appreciation (GEP Group A)

DANC 408 Choreography & Production

DANC 429 Special Topics in Dance (4 credits required)

3. Required Courses in Other Departments

(2-3 hours from among)

MUSC 101 Music Fundamentals

THEA 104 Theatre

THEA 107 Intro. to Theatrical Vision (GEP Group A)

ART 104 Foundational Studies I

Dental Hygiene Preparation

Pre-professional program

Coordinator:

David Morton, Professor,
Department of Biology

- The listed pre-professional courses are required for students interested in attending the University of Maryland, Baltimore's Dental Hygiene Program. These courses could also be taken, together with additional requirements, by students interested in attending other programs in Dental Hygiene.
- It is expected that each student enrolled in the Pre-Dental Hygiene Program will earn and maintain a **minimum 3.0** cumulative grade point average and a 3.0 cumulative grade point average in biology, chemistry, and nutrition to be considered competitive for the program.
- You cannot major or minor in Dental Hygiene Preparation.

For Pre-professional Program

Total Hours:

65

Summary of Requirements for Pre-professional Program in Dental Hygiene Preparation

1. Biology

(16 hours)

BIOL 149 General Biology I
BIOL 201 Anatomy & Physiology I
BIOL 202 Anatomy & Physiology II
BIOL 304 Microbiology

2. Chemistry

(13 hours)

CHEM 101 General Chemistry I
CHEM 102 General Chemistry II
CHEM 301 Organic Chemistry I

3. English

(9 hours)

ENGL 101/111 Freshman Composition
ENGL 310/312 Advanced Composition
ENGL 338 Technical Writing

4. Communication Studies

(3 hours)

CMST 102 Intro. to Human Communication

5. Sociology

(3 hours)

SOCI 100/111 Intro. to Sociology

6. Math

(3 hours)

MATH 209/219 Elements of Applied Probability & Statistics

7. Health

(3 hours)

HEED 200 Nutrition

8. Psychology

(3 hours)

PSYC 150/151 General Psychology

9. Humanities

(6 hours)

Courses must be selected from two different areas: English (literature), philosophy, mathematics, foreign language, history, and music/art (appreciation or history)

Some suggested courses:

MATH 102, 103
PHIL 102, 313
MUSC 110, 117
ENGL 150/250, 260, 261, 290

10. Social Science

(6 hours)

Courses may be selected from the following areas: psychology, sociology, economics, business administration, geography, political science, and computer science.

Earth Science

Major

Concentration in

- environmental science

Teaching Certification Option

Participating Faculty:

Professors:

Yoder (Biology), Caupp,
Precht (Geography)

Associate Professors:

Doyle (Physics), Kessler
(Geography), Pegg
(Biology), Tam (Physics)

Assistant Professors:

David Arnold,
M. Ramspott, D. Welsch
(Geography)

- This is a multidisciplinary program jointly administered by the Departments of Geography, Physics, Biology and Chemistry.
- An optional internship is available in Earth Science.
- You may pursue Earth Science middle/secondary teacher certification. Contact the Chair of the Educational Professions Department.
- There is no minor in Earth Science.

	For Major	For Environmental Science Concentration	Teaching Cert. Option
Hours Required in Geography:	28	37	30
Hours Required in Other Fields:	17	34	59.5
Total Hours Required:	45	71	89.5

Summary of Requirements for Major in Earth Science

1. Introductory Level Courses:

(7 hours)

GEOG 103 or 113 Physical Geography (GEP Group C)

GEOG 275 Fundamentals of Geographic Data Handling (Tech. Fluency)

2. Required Advanced Courses:

(26-27 hours)

GEOG 207 Physical Geology

GEOG 208 Historical Geology

GEOG 310 Fundamentals of Cartography

GEOG 335 (or SCIE 335) Oceanography

or GEOG 340 Soil: Genesis, Nature and Characterization*

GEOG 380 Research Methods in Geography

GEOG 430 Surface Water Hydrology

or GEOG 431 Glacial and Pleistocene Geomorphology*

GEOG 486 Earth Science Capstone

MATH 209 Elements of Applied Probability and Statistics (Core Skill 3)

PHSC 205 Descriptive Meteorology or GEOG 405 Climatology*

3. Required Supporting Science Sequence:

(8 hours)

Complete one of the supporting Science Sequences:

BIOL 149-150 General Biology (BIOL 149 - GEP Group C)

CHEM 101-102 General Chemistry (CHEM 101 - GEP Group C)

PHYS 215-216 General Physics I and II (PHYS 215 - GEP Group C)

PHYS 261-262 Principles of Physics I and II (PHYS 261 - GEP Group C)

4. Elective:

(3-6 hours)

Select at least one of the following courses (two for teaching certification)**

BIOL 305 Dendrology

BIOL 314 Plant Taxonomy

BIOL 340 Ecology

BIOL 411 Invertebrate Zoology

BIOL 426 Vertebrate Zoology

GEOG 406 Management and Conservation of Natural Resources

GEOG 413 Remote Sensing—Aerial Photo Interpretation

GEOG 432 Groundwater Hydrology

GEOG 441 Soil Analysis

GEOG 445 Biogeography

GEOG 460 Natural Hazards in the Physical Environment

PHSC 210 Descriptive Astronomy

PHSC 220 The Solar System

*Courses not selected to meet requirements, may be used as electives.

**Some of these courses may require additional prerequisite course work.

Summary of Requirements for Teaching Certification Option in Earth Science

If you wish to complete a Maryland State approved program in teaching Earth Science, you must:

- Complete the BA/BS in Earth Science (without a concentration).
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: Secondary School Programs.
- Select the following courses to complete your major: PHSC 205, PHSC 210 or PHSC 220, GEOG/SCIE 335, and GEOG 406 or GEOG 460.

- The Environmental Science concentration is dedicated to the study of the relationships between humans and their environments.
- You will become sensitive, articulate, and knowledgeable about increasingly complex environmental issues facing contemporary society.
- Course work in this concentration will provide the theoretical and practical background as well as the skills necessary to study environmental science from a wide range of perspectives.
- You must meet certain criteria and deadlines prior to enrollment in either GEOG 488 or GEOG 492.
- You must select 2 other members for your advisory committee in addition to your advisor from the faculty in participating departments. At least 1 member of the committee must be from Geography.

Summary of Requirements for Environmental Science Concentration in Earth Science

1. Introductory Level Courses:

(16 hours)

GEOG 103 or GEOG 113 Physical Geography (GEP Group C)
 GEOG 104 Human Geography (GEP Group D or F)
 or GEOG 110 World Regional Geography: Cultural Diversity (GEP Group F)
 GEOG 275 Fundamentals of Geographic Data Handling (Tech. Fluency)
 MATH 102 College Algebra (Core Skill 3)
 MATH 209 Elements of Probability and Statistics (Core Skill 3)

2. Required Advanced Courses:

(15 hours)

GEOG 380 Research Methods in Geography
 GEOG 406 Management and Conservation of Natural Resources
 GEOG 445 Biogeography
 GEOG 472 Environmental Planning or GEOG 473 Environmental Law
 GEOG 486 Earth Science Capstone
 GEOG 488 Environmental Practicum or GEOG 492 Internship: Research in Geography*
 *requires co-registration in GEOG 495

3. Required Supporting Science Sequence:

(16 hours)

BIOL 149 General Biology I (GEP Group C)
 BIOL 150 General Biology II
 CHEM 101 General Chemistry I (GEP Group C)
 CHEM 102 General Chemistry II

4. Electives:

(24-25 hours)

Select two courses in each group:**

Group I Advanced Biology

BIOL 314 Plant Taxonomy or BIOL 305 Dendrology
 BIOL 340 General Ecology
 BIOL 406 Ornithology
 BIOL 421 Sample Design and Analysis of Plant Communities
 BIOL 422 Herpetology
 BIOL 423 Mammalogy
 BIOL 430 Introductory Limnology

Group II Advanced Techniques

GEOG 310 Fundamentals of Cartography
 GEOG 317 Principles of Geographic Information Science
 GEOG 413 Remote Sensing - Aerial Photo Interpretation
 GEOG 414 Digital Image Processing and Analysis
 GEOG 433 Surveying and Field Techniques

GROUP III Advanced Physical Geography

GEOG 335 Oceanography
 GEOG 340 Soil: Genesis, Nature and Characterization
 GEOG 405 Climatology
 GEOG 430 Surface Water Hydrology
 GEOG 431 Glacial & Pleistocene Geomorphology
 GEOG 432 Groundwater Hydrology
 GEOG 460 Natural Hazards in the Physical Environment

GROUP IV Advanced Human Systems

Take two of the following from two different disciplines:

ECON 410 Resource and Environmental Economics
 ENGL 440 Literature of the Environment
 GEOG 300 Economic Geography
 GEOG 407 Political Geography
 GEOG 410 Locational Analysis
 HIST 309 World Environmental History
 PHIL 315 Philosophy and the Environment
 POSC 450 Environmental Public Policy

**some of these courses may require additional prerequisite course work.

Engineering

Dual-degree Program

Total Hours Required at Frostburg State University:

72-82

Summary of Requirements at FSU for Dual Degree in Engineering

Coordinator:

Oguz Soysal, Chair,
Department of Physics and
Engineering

- A dual degree program of Frostburg State University and the University of Maryland, College Park's College of Engineering is available to the student who seeks a career in one of several engineering fields and who also wants a general undergraduate education.
- This program allows you to earn undergraduate degrees from both institutions over a five-year period.
- In this program you attend FSU for approximately three academic years and the University of Maryland, College Park's College of Engineering for approximately two academic years. After completing the academic requirements of FSU — usually at the end of the fourth year (the first year at the University of Maryland, College Park) — you will receive a bachelor's degree from Frostburg State University. Upon meeting all requirements in the Clark School of Engineering, you earn one of several baccalaureate engineering degrees from the University of Maryland, College Park, majoring in any of the following areas:

- Aerospace Engineering
- Biological Resources Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Engineering Materials
- Fire Protection
- Materials Engineering
- Mechanical Engineering
- Nuclear Engineering

1. Chemistry:

(8-18 hours)

CHEM 101 & 102 General Chemistry I & II (CHEM 101 - GEP Group C)

*CHEM 301 & 302 Organic Chemistry I & II

*Organic chemistry courses required for students in chemical engineering.

2. Computer Science:

(4 hours)

COSC 240 Computer Science I

or ENEE 114 Programming Concepts for Engineers

3. Mathematics:

(18 hours)

MATH 236, 237, 238 Calculus I, II & III (MATH 236 - Core Skill 3)

MATH 420 Advanced Calculus, or MATH 436 Mathematical Physics

MATH 432 Differential Equations

4. Engineering:

(3 hours)

ENES 100 Intro to Engineering Design

5. Physics:

(39 hours)

PHYS 261 Principles of Physics I (GEP Group C)

PHYS 262 Principles of Physics II

PHYS 263 Principles of Physics III

PHYS 264 Principles of Physics IV

PHYS 310 Classical Mechanics

PHYS 312 Electricity & Magnetism

PHYS 320 Experimental Physics

PHYS 491 Seminar

PHYS 492 Senior Research & Seminar (Capstone)

Choose one track:

(9 hours)

a. Traditional Physics

PHYS 311 Thermodynamics

PHYS 417 Quantum Physics

plus one 300-400 level physics elective

b. Engineering Physics

With permission of the Department Chair, as many as 6 credits of mechanical or electrical engineering courses at the 200 level or above may be applied.

Courses listed in the study program not to be applied toward the student's major field of study may be applied toward satisfaction of the General Education Program requirements where appropriate.

Dual Degree Requirements at FSU

1. Completion of required courses in the dual degree study program (listed above), 72-82 semester hours depending on field of engineering.
2. Completion of a minimum of 90 semester hours.
3. Completion of FSU's Core Skill Requirements and Modes of Inquiry in the General Education Program (a waiver of Group E courses, requiring a total of at least 23 credit hours in the Liberal Arts Component). Students must complete at least six of the additional nine credits of General Education course work required by the University of Maryland, College Park (Advance Studies CORE requirement) to satisfy the General Education requirements at Frostburg State University.
4. Completion of a major program as approved by the respective Frostburg State Department Chair.
5. Recommendation from the designated official at Frostburg State University (Coordinator of the Dual Degree Program in Engineering).

Requirements for Admission to University of Maryland, College Park

To become a Dual Degree candidate at the University of Maryland, College Park, a student must have satisfied all specified requirements at Frostburg State University. Additionally, the student must have the following:

1. A minimum cumulative 3.0 grade point average at Frostburg;
2. Recommendation from the designated official at Frostburg (Coordinator of the Dual Degree Program in Engineering).

Admission to the College of Engineering of the University of Maryland, College Park is guaranteed to the Frostburg State University Dual Degree student provided the above stated requirements have been satisfied.

Engineering

Collaborative Programs

General Education Program
for Electrical & Mechanical
Engineering Majors

●The electrical and mechanical engineering programs, offered by Frostburg State University in collaboration with the Clark School of Engineering, University of Maryland, College Park, are accredited by the Accreditation Board for Engineering and Technology (ABET).

●The degree awarded to students completing the program is a B.S. from UM,CP. Therefore, students enrolled in the engineering programs must complete UM,CP's general education program requirements.

●UM,CP requires completion of one Human Cultural Diversity course, focusing on one or more of the following: a) the history, status, treatment, or accomplishment of women or minority groups and subcultures; b) non-Western culture; c) concepts and implications of diversity. If you complete either MUSC 110, MUSC 117 or DANC 110 under Distributive Studies, these courses would also fulfill your diversity requirement. In addition, there are a number of 300-400 level courses that can be taken to fulfill both the Advanced Studies and Diversity requirement. Please consult with your advisor for a listing of approved courses.

●To be granted advanced placement credit for a course, you must meet UM,CP's minimum requirements. These differ from FSU's standards, with a higher score required by UM,CP in a number of areas. Please consult the Engineering Coordinator to verify AP scores required to receive credit.

●Advanced Studies courses should be taken only after completing 56 credits/entering junior standing.

For all engineering majors

Minimum GEP Hours Required

43

Summary of Fundamental Studies Requirements

1. English

(6 hours)

ENGL 101/111 Freshman Composition-*must be attempted within first 30 credits & passed within first 60*

ENGL 338 Technical Writing or ENGL 339 Scientific Writing - *must be taken after you have completed 56 credits/junior standing*

2. Mathematics

(3-4 hours)

Any MATH 100 or 200 level course except MATH 206, MATH 207, MATH 103 and MATH 104. *Must be attempted by 30 credits, completed by 60-credit level.*

MATH 236 Calculus I, *required under the engineering major, fulfills this requirement.*

Summary of Distributive Studies Requirements

1. Arts and Humanities

(9 hours)

ENGL 150/250 Introduction to Literature

and one History/Theory of the Arts course from the following:

ART 100/111 Art Appreciation or ART 110 Visual Imagery

MUSIC 110 Intro. to World Music or MUSC 117 Music of Africa, Asia and the Americas

THEA 106 Intro. to Theatre

DANC 110 Dance Appreciation

One additional Arts and Humanities course from the above History/Theory of the Arts list or any philosophy course.

2. Mathematics and Natural Sciences

(10 hours)

The mathematics and sciences requirements are fulfilled by courses completed for the engineering program.

3. Social Sciences

(9 hours)

HIST 100/111 The Contemporary World in Historical Perspective

and two behavioral and social science courses from the following:

POSC 110/112 Introduction to American Politics

POSC 113/114 Introduction to World Politics

ECON 200 Basic Economics or ECON 201/211 Princ. of Econ.

GEOG 104/114 Human Geography

PSYC 150/151 General Psychology

SOCI 100/111 Introduction to Sociology

Summary of Advanced Studies Requirements

Two courses (6 credits) required:

Must be 300-400 level courses taken after 56 credits. Students may substitute an approved senior capstone course in their major taken after 86 credits for one of the two required Advanced Studies courses. The other course **must** be outside the major. The following may not be used to fulfill Advanced Studies requirements:

- Professional Writing courses
- Courses used to meet Distributive Studies requirements
- Internships or other experiential learning types of courses
- Courses taken on a pass/fail basis

One independent studies course (*minimum of three credits, outside the major*) may be used toward Advanced Studies requirements as long as it is consistent with the rules above and approved by the Engineering Coordinator.

Electrical Engineering

Collaborative Program

Major

Coordinator:

Julie Yi-Zun Wang, Assistant Professor, Department of Physics and Engineering

- A collaborative program between FSU and the University of Maryland, College Park, which allows students to remain on the Frostburg campus for four years while receiving a B.S. degree in electrical engineering from UM,CP.
- During the freshman and sophomore years, you will be enrolled as a pre-engineering major. You will complete general education and engineering science courses taught by faculty on-site at FSU. FSU tuition rates will apply.
- You must complete UM,CP's general education program requirements, as outlined under the GEP for Engineering Majors section in this catalog.
- After completing 45 credits of designated course work, you must apply for admission to College Park's Clark School of Engineering. After meeting UMCP's admissions standards, you will be accepted into the second half of the program as an engineering major. UMCP's tuition rates will apply for this part of the program. You must re-apply for financial aid and scholarships through UM,CP.
- Upper level engineering courses will be delivered over interactive video from College Park to FSU. All laboratory and design courses will be taught by FSU faculty.

	For Major
Hours Required in Engineering:	52
Hours Required in Other Departments:	56
Total Hours Required:	108

Mission Statement

The mission of the FSU Collaborative Electrical Engineering Program is to provide excellent undergraduate education in electrical engineering; to establish close partnership with and provide technical knowledge to industry, government, and local business; to contribute to economic development within the state of Maryland, specifically in the Western Maryland region; and to provide related services to the campus community and community at large.

Program Educational Objectives

The Frostburg Collaborative Electrical Engineering Program will graduate engineers who have

1. Broad knowledge of mathematics, physical science, and engineering science with emphasis in selected specialization areas of electrical engineering to be successful in government, industry, private companies, and graduate schools.
2. Professional skills to function in multidisciplinary teams, use modern engineering tools and computer software, solve engineering problems, engage in design work or research, and communicate with professionals.
3. An understanding of professional responsibility to evaluate their ethical obligations to society, employers, employees, and their peers.
4. Motivation for life-long learning to update their technical knowledge and understanding of societal and contemporary issues.

Program Outcomes

The students of Frostburg Electrical Engineering Collaborative Program will demonstrate throughout the curriculum

- a. an ability to apply knowledge of mathematics, science, and engineering
- b. an ability to design and conduct experiments, as well as to analyze and interpret data
- c. an ability to design a system, component, or process to meet desired needs
- d. an ability to function on multi-disciplinary teams
- e. an ability to identify, formulate, and solve engineering problems
- f. an understanding of professional and ethical responsibility
- g. an ability to communicate effectively
- h. the broad education necessary to understand the impact of electrical engineering solutions in a global and societal context
- i. a recognition of the need for and an ability to engage in life-long learning
- j. a knowledge of contemporary issues in electrical engineering
- k. an ability to use the techniques, skills, and modern engineering tools necessary for electrical engineering practice.

Summary of Pre-Engineering Requirements

1. Introductory Level Courses

(18 hours)

ENES 100 Introduction to Engineering Design
 ENEE 114 Programming Concepts for Engineers
 ENEE 204 Basic Circuit Theory
 ENEE 206 Fundamental Electric and Digital Circuit Laboratory
 ENEE 241 Numerical Techniques in Engineering
 ENEE 244 Digital Logic Design

2. Required Courses in Other Departments

(40 hours)

CHEM 101 General Chemistry I (*Meets GEP requirement*)

CHEM 133 General Chemistry for Engineers (*preferred*)

or CHEM 102 General Chemistry II

ENGL 101 Freshman Composition (*Meets GEP requirement*)

ENGL 338 Technical Writing or ENGL 339 Scientific Writing (*Meets GEP requirement*)

MATH 236 Calculus I (*Meets GEP requirement*)

MATH 237 Calculus II

MATH 238 Calculus III

MATH 432 Differential Equations

PHYS 261 Principles of Physics I: Mechanics (*Meets GEP requirement*)

PHYS 262 Principles of Physics II: Electricity and Magnetism

PHYS 263 Principles of Physics III: Sound and Light

Summary of Engineering Requirements

1. Advanced Engineering Courses:

(23 hours)

ENEE 303 Analog and Digital Electronics

ENEE 307 Electronic Circuits Design Lab

ENEE 313 Introduction to Device Physics

ENEE 322 Signal and System Theory

ENEE 324 Engineering Probability

ENEE 350 Computer Organization

ENEE 381 Electromagnetic Wave Propagation

ENEE 408 Capstone Design Project

2. Required Physics Course:

(4 hours)

PHYS 312 Electricity and Magnetism (*substituting for ENEE 380*)

3. Elective Courses in Electrical Engineering:

(11 hours)

Must include two credits of advanced laboratory courses.

4. Elective Courses in Other Departments:

(12 hours)

At least three credits of the required 12 must be a 400-level Math course. The remaining credits may be selected from an approved list of math, physics, or mechanical engineering courses.

Mechanical Engineering

Collaborative Program

Major

Coordinator:

Julie Yi-Zun Wang,
Assistant Professor,
Department of Physics and
Engineering

- A collaborative program between Frostburg State University and the University of Maryland, College Park, which allows students to remain on the Frostburg campus for four years while receiving a B.S. degree in mechanical engineering from UM,CP.
- During the freshman and sophomore years, you will be enrolled as a pre-engineering major. You will complete general education and engineering science courses taught by faculty on-site at FSU. FSU tuition rates will apply.
- You must complete UMCP's general education program requirements, as outlined under the GEP for Engineering Majors section in this catalog.
- After completing 45 credits of designated course work, you must apply for admission to College Park's Clark School of Engineering. After meeting UM,CP's admissions standards, you will be accepted into the second half of the program as an engineering major. UMCP's tuition rates will apply for this part of the program. You must reapply for financial aid and scholarships through UM,CP.
- Upper level engineering courses will be delivered over interactive video from College Park to FSU. All laboratory and design courses will be taught by FSU faculty.

	For Major
Hours Required in Engineering:	66
Hours Required in Other Departments:	40
Total Hours Required:	106

Mission Statement

The mission of the FSU Collaborative Mechanical Engineering Program is to provide excellent undergraduate education in mechanical engineering; to establish close partnership with and provide technical knowledge to industry, government, and local business; to contribute to economic development within the state of Maryland, specifically in the Western Maryland region; and to provide related services to the campus community and community at large.

Program Educational Objectives

The Frostburg Collaborative Mechanical Engineering Program will graduate engineers who have

1. Broad knowledge of mathematics, physical science, and engineering science with emphasis in selected specialization areas of mechanical engineering to be successful in government, industry, private companies, and graduate schools.
2. Professional skills to function in multidisciplinary teams, use modern engineering tools and computer software, solve engineering problems, engage in design work or research, and communicate with professionals.
3. An understanding of professional responsibility to evaluate their ethical obligations to society, employers, employees, and their peers.
4. Motivation for life-long learning to update their technical knowledge and understanding of societal and contemporary issues.

Program Outcomes

The students of Frostburg Mechanical Engineering Collaborative Program will demonstrate throughout the curriculum

- a. an ability to apply knowledge of mathematics, science, and engineering
- b. an ability to design and conduct experiments, as well as to analyze and interpret data
- c. an ability to design a system, component, or process to meet desired needs
- d. an ability to function on multi-disciplinary teams
- e. an ability to identify, formulate, and solve engineering problems
- f. an understanding of professional and ethical responsibility
- g. an ability to communicate effectively
- h. the broad education necessary to understand the impact of mechanical engineering solutions in a global and societal context
- i. a recognition of the need for and an ability to engage in life-long learning
- j. a knowledge of contemporary issues in mechanical engineering
- k. an ability to use the techniques, skills, and modern engineering tools necessary for mechanical engineering practice

Summary of Pre-Engineering Requirements

1. Engineering Science Courses

(12 hours)

ENES 100 Introduction to Engineering Design

ENES 102 Statics

ENES 220 Mechanics of Materials

ENES 221 Dynamics

2. Required Courses in Other Departments

(40 hours)

CHEM 101 General Chemistry I (*Meets GEP requirement*)

CHEM 133 General Chemistry for Engineers (*preferred*)

or CHEM 102 General Chemistry II

ENGL 101 Freshman Composition (*Meets GEP requirement*)

ENGL 339 Scientific Writing or ENGL 338 Technical Writing (*Meets GEP requirement*)

MATH 236 Calculus I (*Meets GEP requirement*)

MATH 237 Calculus II

MATH 238 Calculus III

MATH 432 Differential Equations

PHYS 261 Principles of Physics I: Mechanics

(*Meets GEP requirement*)

PHYS 262 Principles of Physics II: Electricity and Magnetism

PHYS 263 Principles of Physics III: Sound and Light

Summary of Engineering Requirements

1. Required Engineering Courses

(36 hours)

ENME 232 Thermodynamics

ENME 350 Electronics and Instrumentation I

ENME 271 Numerical Methods in Mechanical Engineering

ENME 331 Fluid Mechanics

ENME 332 Transfer Processes

ENME 351 Electronics and Instrumentation II

ENME 361 Vibration, Controls and Optimization I

ENME 462 Vibration, Controls and Optimization II

ENME 382 Engineering Materials and Manufacturing Processes

ENME 392 Statistical Methods for Product and Process Development

ENME 371 Product Engineering and Manufacturing

ENME 472 Integrated Product and Process Development (*Capstone*)

2. Elective Hours in Department

(18 hours)

English

Major

Minor

Concentrations in:

- literature
- creative writing
- professional writing

Teaching Certification Option

Professors:

Dolly, Hurd, Lutz, McShane,
A. F. Parks, Pula, Snelson

Associate Professors:

Barkley, R. Brewer, R.
Smith, T. Smith

Assistant Professors:

Branam, Duncan, Ewers
(Chair), Idris, Kehrwald,
LaFemina

Lecturer:

Chapman

- If you wish to obtain secondary school teaching certification, you must complete the Teaching Certification Option.
- An internship is required for the Teaching Certification Option, but in other English concentrations, an internship is optional.
- The department also coordinates minors in film studies, journalism and public relations and participates in the environmental humanities minor (see separate sections of this catalog).
- ENGL 101, 111, 150, 221, 250, 308, 309, 310, and 312 do not count toward major or minor.

	For Major	For Minor	For Teaching Certification Option
Hours Required in English:	40	24	40
Hours Required in Other Departments:	0	0	42.5
Total Hours Required:	40	24	82.5

Summary of Requirements for Major/Minor in English

Major	Minor
1. Core Curriculum <i>(15 hours)</i> ENGL 260 British Literature: Beowulf to Present* ENGL 261 American Literature: Colonial to Present* ENGL 270 European and Neo-European Literature* <i>or</i> ENGL 271 Asian and African Literature* ENGL 300 Critical Writing about Literature* ENGL 306 Introduction to English Linguistics* ** <i>or</i> ENGL 416 History of the English Language* **	1. Core Curriculum <i>(15 hours-Same as major)</i>
2. Concentrations <i>(25 hours)</i> <i>Majors must choose one of the following concentrations:</i> <ul style="list-style-type: none"> ● Literature ● Creative Writing ● Professional Writing <i>or</i> <ul style="list-style-type: none"> ● Teaching Certification Option (Requirements for each are specified below.)	2. Minor Core Requirement <i>(3 hours)</i> ENGL 340 Shakespeare
	3. Electives <i>(6 hours)</i> <i>Criteria for electives: Students must take 6 hrs. of literature at the 300/400 level.</i>

* Must have a C or better to count toward major.

**Students in the Teaching Certification track must take ENGL 416 to fulfill their Major Core Curriculum.

Requirements for Literature Concentration

- 1. Major Core Curriculum:**
(15 hours - listed above)
- 2. Concentration Core Requirements:**
(7 hours)
 ENGL 340 Shakespeare
 ENGL 471 Seminar in Critical Theory
 ENGL 489 English Capstone
- 3. Period Courses:**
(9 hours)
Take one of the following:
 ENGL 371 Literature of the Middle Ages
 ENGL 372 Early Modern Literature
 ENGL 373 Literature of the Enlightenment

Take one of the following:
 ENGL 374 Literature of the Age of Revolution
 ENGL 375 Romanticism
 ENGL 376 Realism and Naturalism

Take one of the following:
 ENGL 377 Modernism
 ENGL 378 Postmodernism
 ENGL 379 Postcolonial Literature

4. Specialization Course:*(3 hours)**Take one of the following:*

ENGL 431 World Drama I

ENGL 432 World Drama II

ENGL 440 Literature of the Environment

ENGL 450 Women and Literature

ENGL 490 Selected Topics in English

5. Electives:*(6 hours)**Students may count a maximum of 6 hours of writing courses beyond ENGL 300 Critical Writing About Literature. Students may count one 200-level course.***Requirements for Creative Writing Concentration****1. Major Core Curriculum:***(15 hours - listed above)***2. Concentration Requirements:***(22 hours)*

ENGL 334 Creative Writing: Fiction

ENGL 335 Creative Writing: Poetry

ENGL 377 Modernism

or ENGL 378 Post Modernism

ENGL 460 Form and Theory of Fiction and Poetry

ENGL 470 Senior Workshop

ENGL 489 English Capstone

Six hours from the following:

ENGL 360 Creative Nonfiction

ENGL 434 Advanced Fiction Writing

ENGL 435 Advanced Poetry Writing

3. Elective:*(3 hours)**English course (300/400 level)***Requirements for Professional Writing Concentration****1. Major Core Curriculum***(15 hours - listed above)***2. Concentration Requirements:***(19 hours)*

ENGL 330 Business Writing

or ENGL 338 Technical Writing

ENGL 336 Journalistic Writing

ENGL 360 Creative Nonfiction

ENGL 402 Editing and Production

ENGL 430 The Composing Processes

ENGL 436 Advanced News and Feature Writing

ENGL 489 English Capstone

3. Electives:*(6 hours)**Literature courses (300-400 level)***Requirements for Teaching Certification Option****1. Major Core Curriculum:***(15 hours - listed above)***2. Teaching Certification Core Requirements:***(16 hours)*

ENGL 276 Adolescent Literature

ENGL 306 Introduction to English Linguistics

ENGL 330 Business Writing

or ENGL 334 Creative Writing: Fiction*or* ENGL 335 Creative Writing: Poetry*or* ENGL 336 Journalistic Writing

ENGL 340 Shakespeare

ENGL 430 The Composing Processes

ENGL 489 English Capstone

3. Electives*(9 hours)**Literature courses.***Summary of Requirements for Teaching Certification Option in English**

If you wish to complete a Maryland State approved program in teaching English, you must:

- Complete the BA/BS in English (Teaching Certification Option)
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: Secondary Programs.

Professional Writing

Certificate

Coordinator:

Charles Ewers, Assistant
Professor and Chair,
Department of English

- To be eligible for a certificate, students must achieve at least a C in each writing course applied to certification.
- Students majoring in English with a concentration in professional writing are not eligible for the certificate.
- You cannot major in Professional Writing

For Certificate

Hours Required in English:	12
Hours Required in Other Departments:	0
Total Hours Required:	12

The certificate in professional writing is open to degree-seeking students in any major and non-degree seeking members of the community who would like to strengthen writing skills.

Non-degree-seeking students must provide evidence of successful completion of no fewer than 42 college-level credits, including a freshman English course, passed with a grade of C or better.

Summary of Requirements for Certificate in Professional Writing

Select 12 hours from the following courses:

ENGL 330 Business Writing
ENGL 336 Journalistic Writing
ENGL 338 Technical Writing
ENGL 339 Scientific Writing
ENGL 402 Editing and Production
ENGL 436 Advanced News and Feature Writing
ENGL 430 The Composing Processes

Environmental Analysis & Planning

Major

Participating Faculty: Professors:

Caupp, Precht (Geography),
Raesley, Yoder (Biology)

Associate Professor:

Kessler (Geography),
Pegg (Biology)

Assistant Professors:

David Arnold, M. Ramspott,
D. Welsch (Geography)

- This multidisciplinary program is jointly administered by the Departments of Biology and Geography.
- You may not minor in Environmental Analysis and Planning.
- The program is supported by the Maryland Department of the Environment.

For Major

Hours Required in Geography:	46-47
Hours Required in Biology:	21-23
Hours Required in Other Departments:	17-18
Total Hours Required:	84-88

Summary of Requirements for Major in Environmental Analysis and Planning

Major

1. Courses in Biology:

(21-23 hours)

BIOL 149 General Biology I (GEP Group C)
BIOL 150 General Biology II
BIOL 314 Plant Taxonomy
BIOL 340 General Ecology

*Take 2 of 4 courses:**

BIOL 303 Plant Physiology
BIOL 304 Microbiology
BIOL 421 Sample Design and Analysis of Plant Communities
BIOL 430 Limnology

** GEOG 445, Biogeography, may be substituted for one of the BIOL electives.*

2. Courses in Geography:

(46-47 hours)

GEOG 103 Physical Geography (GEP Group C)
or GEOG 113 Honors Physical Geography
GEOG 207 Physical Geology
GEOG 275 Fundamentals of Geographic Data Handling (Tech. Fluency)
GEOG 310 Fundamentals of Cartography
GEOG 317 Principles of Geographic Information Science
GEOG 340 Soil: Genesis, Nature and Characterization
GEOG 413 Remote Sensing -Aerial Photo Interpretation

- Internship is optional.
- You are advised to complete the 100- and 200-level courses within your first 60 hours of course work, and before enrolling in 400-level courses in Geography and Biology.

GEOG 430 Surface Water Hydrology
GEOG 470 Soil & Water Engineering
GEOG 472 Environmental Planning (Capstone)
GEOG 473 Environmental Law

Take four of six courses:
GEOG 208 Historical Geology
GEOG 317 Geographic Information Systems
GEOG 432 Groundwater Hydrology
GEOG 433 Surveying and Field Techniques
GEOG 441 Soil Analysis
GEOG 471 Engineering for Land Development

3. **Required Courses in Other Departments:**
(17-18 hours)
CHEM 101 General Chemistry I (GEP Group C)
CHEM 102 General Chemistry II
ENGL 338 Technical Writing (Core Skill 2)
MATH 209 Elements of Applied Probability and Statistics (Core Skill 3)
MATH 220 Calculus for Applications
or MATH 236 Calculus I (Core Skill 3)

Environmental Humanities

Minor

Coordinator:
Charles Ewers, Assistant Professor, Department of English

Participating Faculty:
Professors:
Caupp (Geography), Davis (Visual Arts), Hurd (English), Larivee (Chemistry), Precht (Geography), Raesley (Biology)

Associate Professors:
Pegg, Kroeger-Mappes (Philosophy)

Assistant Professor:
Ewers (English)

- This minor is open to and appropriate for students majoring in any field who wish to contribute a humanistic understanding to contemporary preoccupations with environmental issues.

For Minor

Total Hours Required: 18-19

The Environmental Humanities Minor offers a multi-cultural and multidisciplinary approach designed to help students experience and understand cultural inter-relationships with the natural environment. Students learn to integrate an appreciation of the global development of environmental ideas and values with direct experience and participation in visual and verbal landscapes. Students focus on the natural region of the Potomac Watershed and/or selected Third World countries.

Summary of Requirements for Minor in Environmental Humanities

Minor

1. **Required Core Courses:**
(9 credits)
HIST 309 World Environmental History
ENGL 440 Literature of the Environment
PHIL 315 Philosophy and the Environment
2. **Applications:**
(6-7 credits)
Choose either a, b, or c:
- a. Arts and Cultures:**
Take 2 of the following courses from 2 different disciplines
LING 301 Introduction to Language
ART 301 Artistic Traditions: Asia (GEP Group F)
ART 302 Artistic Traditions: Africa and the Americas (GEP Group F)
ART 380 19th-Century Art History
ENGL 375 Romanticism
- b. Society and Cultures:**
Take 2 of the following courses from 2 different disciplines
SOCI 224 Cultural Anthropology (GEP Group F)
ECON 410 Resource and Environmental Economics
POSC 450 Environmental Public Policy
GEOG 472 Environmental Planning
GEOG 473 Environmental Law

- You cannot major in Environmental Humanities.

c. Science and Cultures:

Take 2 of the following courses from 2 different disciplines

BIOL 109 Human Biology and the Environment (GEP Group C)
 BIOL 340 General Ecology
 GEOG 405 Climatology
 GEOG 445 Biogeography
 CHEM 100/113 Chemistry and Society (GEP Group C)

3. Required Final Project:

(3-9 credits)

HUMA 495 Project in Environmental Humanities

Environmental Policy

Minor

Coordinator:

Stephen Hartlaub, Associate Professor, Department of Political Science

Participating Faculty:

Professors:

Caupp (Geography), Dalton (Economics)

Associate Professor:

Hartlaub (Political Science)

- For advising, see Coordinator.
- See the Coordinator for a listing of special topics courses offered for the minor in future semesters.
- A background in the natural sciences is strongly recommended.
- You cannot major in Environmental Policy.

For Minor

Total Hours Required

21-22

Summary of Requirements for Minor in Environmental Policy

Minor

1. Required Core Courses

(12 hours)

ECON 410 Resource and Environmental Economics
 GEOG 473 Environmental Law
 POSC 450 Environmental Public Policy
 EPOL 491 Seminar in Environmental Policy

2. Elective Courses - no more than 6 cr. from any one department

(9-10 hours)

ECON 408 Urban and Regional Economics
 GEOG 450 Urban Planning
 GEOG 472 Environmental Planning
 POSC 351 Public Administration
 POSC 352 Interest Groups

One Upper Division course in the Natural Sciences

Special Topics courses ECON 490, GEOG 490, or POSC 491 when approved by the Minor Coordinator.

Independent Studies courses ECON 499, GEOG 499, or POSC 498 (maximum of 3 cr.) when approved by the Minor Coordinator.

Ethnobotany

For Major

Total Hours Required:**83-86**

Summary of Requirements for Major in Ethnobotany

Major

Major

Concentrations in

- pharmacological ethnobotany
- biogeography
- cultural studies

See related programs:

- biology
 - pre-health option
 - biotechnology
 - environmental science
- cultural anthropology
- environmental analysis & planning
- forestry
- geography
- interpretive biology & natural history
- wildlife & fisheries

Contact:

Office of the Dean, College
of Liberal Arts & Sciences

Participating Faculty:

Professors:

Precht (Geography)

Associate Professor:

G. White (Geography)

Assistant Professors:

Biser (Chemistry)

Rogers Thomas (Sociology)

Affiliated Faculty:

James Howell (Allegany
College of Maryland)

- Ethnobotany is an interdisciplinary major.
- Depending on your choice of concentration, the degree will prepare you for future scientific training in professional and graduate schools or for work in governmental and non-governmental organizations focused on resource management, conservation, and related areas where human communities and natural environments intersect.
- You will participate in

1. Scientific Foundations

(18 hours)

BIOL 149 General Biology I (GEP Group C)

BIOL 150 General Biology II

CHEM 101 General Chemistry I (GEP Group C)

CHEM 102 General Chemistry II

MATH 209/219 Elements of Applied Probability and Statistics (Core Skill 3)

And choose one of the following:

MATH 102 College Algebra (Core Skill 3)

or MATH 120 Pre-Calculus (Core Skill 3)

or any math course above 210

2. Botany

(25 hours)

BIOL 128 Introduction to Ethnobotany

BIOL 311 Morphology of Fungi and Non-Vascular Plants

BIOL 303 Plant Physiology

BIOL 314 Plant Taxonomy

BIOL 328 Economic Botany of Appalachia

BIOL 340 General Ecology

BIOL 428 Ethnographic Field Techniques (Capstone)

3. Cultural Perspectives

(9 hours)

GEOG 104 Human Geography (GEP Group D or F)

or GEOG 110 World Regional Geography (GEP Group F)

SOCI 224 Cultural Anthropology (GEP Group F)

SOCI 350 Folklore in Appalachia

4. Biogeography

(3 hours)

GEOG 445 Biogeography

5. Electives

(3-4 hours)

BIOL 150 Medicinal Botany (offered at Allegany College of Maryland)

BIOL 312 Morphology of Vascular Plants

BIOL 407 Biological Systematics

BIOL 421 Sample Design and Analysis of Plant Communities

BIOL 425 Forest Science

BIOL 484 Field Experiences in Ethnobotany and Ecology

BIOL 494 Field Experiences in Biological Sciences

6. Concentration:

(25-27 hours)

Complete one of the following concentrations:

Pharmacological Ethnobotany

(25 hours)

CHEM 301 Organic Chemistry I

CHEM 302 Organic Chemistry II

CHEM 420 Environmental Chemical Analysis

CHEM 425 Pharmacological Ethnobotany

PHYS 215 General Physics I

PHYS 216 General Physics II

research and service designed to preserve the rich cultural and ecological diversity of Appalachia and to contribute to regional economic development.

- You are encouraged to take foreign language courses as electives. The 250-level course counts towards GEP Group B.

Biogeography

(26 hours)

GEOG 103 Physical Geography
 GEOG 275 Fundamentals of Geographic Data Handling
 GEOG 317 Principles of Geographic Information Science
 GEOG 340 Soil: Genesis, Nature & Characterization
 GEOG 405 Climatology
 GEOG 406 Management & Conservation of Natural Resources
 GEOG 413 Remote Sensing-Air Photo Interpretation
 GEOG 430 Surface Water Hydrology

Cultural Perspectives

(27 hours)

Choose any 9 from at least 3 different disciplines

SOCI 100 Introduction to Sociology (GEP Group D)
 SOCI 362 Sociology of Religion
 SOCI 367 Sociology & Medicine
 SOCI 466 Women, Health & Society
 ENGL 280 Mythology & Literature
 or ENGL 440 Literature of the Environment
 HIST 309 World Environmental History
 HIST 318 Native Peoples of the Americas (GEP Group F)
 PHIL 313 Biomedical Ethics
 PHIL 315 Philosophy & the Environment
 GEOG 300 Economic Geography
 or GEOG 454 Geography of Tourism
 GEOG 427 Geography of Languages & Religions (GEP Group F)
 GEOG 403 Geography of Sub-Sahara Africa
 GEOG 320 Geography of Latin America

Film Studies

Minor

Coordinator:

Dr. Kevin Kehrwald,
Assistant Professor,
Department of English

Participating Faculty:

Professor:

L. Pack (Mass
Communication)

Associate Professors:

J. Lombardi (Mass
Communication), R. Smith
(English)

Assistant Professor:

Kehrwald (English)

- The minor is open to students majoring in any field.
- You cannot major in film studies.

For Minor

Total Hours Required

18

The goal of the film minor is to help you develop visual literacy. You will acquire the essential skills of critical thinking by learning to “read texts” in the most pervasive medium of contemporary culture—film. You will

1. Become a more critical viewer of film as a medium by learning to read, analyze, and interpret films
2. Recognize how cinematic techniques, such as camera movement, editing, and cinematography contribute to a film’s impressions
3. Become familiar with film language and terminology
4. Recognize film as a global medium of diverse cultural styles and voices
5. Become acquainted with a variety of aesthetic and cinematic movements
6. Recognize film as a vehicle for forming cultural values
7. Understand how cultural events and technologies have shaped (and continue to shape) film styles, genres, and narrative techniques
8. Understand the historical development of film as an art form.

Summary of Requirements for Minor in Film Studies

Minor

1. Required Core Courses:

(9 hours)

- ENGL 207* Introduction to Film Studies (Fall)
ENGL 208* Film and American Culture (Spring, even-numbered years)
ENGL 344* Film Theory (Spring, odd-numbered years)

**Must have C or better to count toward minor.*

2. Elective Courses:

(9 hours)

- ENGL 281 Literature into Film (Fall, even-numbered years)
ENGL 282 Shakespeare on Film (Fall, odd-numbered years)
MCOM 212 Video Production Industry (Every semester)
MCOM 311 Single Camera Production (Every semester)
MDFL 407 Latin American and Spanish Film (variable)
MDFL 417 World Film (alternate years)

Relevant Special Topics courses (such as HIST 490) will be welcomed as electives as approved by the Coordinator.

Fine Arts

Minor

Professors:

Brown, Davis, Dieruf,
Llewellyn

Associate Professor:

Rhodes (chair)

Assistant Professor:

Herzfeld, Hodges

- Minors are also offered in art history and graphic design. A major is offered in Art & Design. See separate listings in this catalog.
- Only courses in which a grade of C or better is earned may count towards satisfaction of major and minor requirements.
- You cannot major in Fine Arts.

	For Minor
Hours Required in Art:	24
Hours Required in Other Departments:	0
Total Hours Required:	24

Summary of Requirements for Minor in Fine Arts

Minor

1. Basic Courses:

(6 hours)

ART 104 Two-Dimensional Design
ART 105 Three-Dimensional Design

2. Art History and Critical Studies:

(6 hours)

ART 415 Art Criticism

and choose 3 hours from:

ART 301 Artistic Traditions: Asia (GEP Group F)

or ART 302 Artistic Traditions: Africa and the Americas (GEP Group F)

ART 360 Western Art History

ART 380 19th Century Art History

ART 408 20th Century Art History

ART 460 Renaissance and Baroque Art History

3. Introductory Studio:

(9 hours)

Choose 6 hours from:

ART 207 Graphic Design (Tech. Fluency)

ART 212 Drawing

ART 221 Painting

ART 232 Printmaking

ART 235 Photography

and choose 3 hours from:

ART 202 Ceramics

ART 209 Crafts Workshop

ART 236 Digital Imaging

ART 240 Sculpture

4. Advanced Studio Art:

choose 3 hours from:

ART 307 Computer Graphics

ART 402 Advanced Ceramics

ART 407 Advanced Graphic Design: Print and Video Media

ART 421 Advanced Painting

ART 432 Advanced Printmaking

ART 435 Advanced Photography

ART 440 Advanced Sculpture

Foreign Languages & Literature

Major

Concentrations in

- French
- Spanish

Minor

Teaching Certification Option

Associate Professor:

Sanchez (Chair)

Assistant Professor:

Almquist

Instructor:

Ramirez

- At least half of the credit hours required in your major language (French or Spanish) must be taken at FSU.
- Foreign language majors who have courses transferred from a foreign institution at the 300 or 400 level must take at least one 300 or 400 level course at FSU after they return and prior to graduation.
- Only courses in which a grade of C or better is earned will count towards satisfaction of major or minor requirements.
- The department also offers course work in intercultural studies, literature in translation, and linguistics.
- Courses in Italian, Chinese, Japanese and Portuguese are offered as MDFL courses on an irregular basis.

	For Major	For Minor	For Teaching Cert. Option
Hours Required in Foreign Languages & Literature:	36-39	18	36-39
Hours Required in Other Departments:	variable	0	variable
Total Hours Required:	36-variable	18	78.5-variable

Students are strongly encouraged to keep work from all their courses in anticipation of the senior seminar.

Summary of Requirements for Major/Minor in Foreign Languages & Literature with a Concentration in French

Major

Minor

1. Core Curriculum

(15 hours)

FREN 211 French Grammar, Composition & Conversation I *
FREN 212 French Grammar, Composition & Conversation II
FREN 250 Overview of French Language & Culture (GEP Group B)
FREN 330 Advanced Conversation
FREN 331 Advanced Composition

(9 hours)

FREN 211 French Grammar, Composition & Conversation I *
FREN 212 French Grammar, Composition & Conversation II
FREN 250 Overview of French Language & Culture (GEP Group B)

2. Tracks

(21 hours)

Choose one of the following tracks:

A. Literary Studies

Students seeking teaching certification in French must follow this track.

LING 301 Introduction to Language
FREN 335 Intro. to Study of French Literature
FREN 410 French Poetry and Drama
FREN 411 French Fiction, Non-Fiction and Film
FREN 493 Senior Seminar in French Literature (Capstone)
Six additional 300 or 400-level hours in French

B) French Professional Studies

FREN 332 French for the Professions
FREN 430 Individual and Society in Francophone World
FREN 431 Translation
FREN 496 Senior Seminar in French Professional Studies (Capstone)
Nine additional 300 or 400-level hours in French or alternative discipline approved by department. Students must file a course plan articulating which classes will be used to satisfy these nine credits with the chair of the department.

* *If you have no (or limited) previous background in French, you will have to begin your language study at the elementary level (FREN 101-102) with accelerated placement possible based on your performance.*

2. Minor electives

(9 hours)

Any three 300- or 400-level courses in French

Summary of Requirements for Major/Minor in Foreign Languages & Literature with a Concentration in Spanish

Major

Minor

1. Core Curriculum

(9 hours)

SPAN 211 Spanish Grammar, Composition, & Conversation I *
SPAN 212 Spanish Grammar, Composition, & Conversation II
SPAN 250 Overview of Spanish Language & Culture (GEP Group B)

(9 hours)

SPAN 211 Spanish Grammar, Composition & Conversation I *
SPAN 212 Spanish Grammar, Composition & Conversation II
SPAN 250 Overview of Spanish Language & Culture (GEP Group B)

2. Advanced Courses*(27 hours)*

*Nine upper-level Spanish courses,
four of which must be at the 400 level
SPAN 489 Capstone in Spanish*

(9 hours)

Any three 300 or 400-level courses in Spanish

3. Linguistics*(3 hours)*

LING 301 Introduction to Language

4. One of the following:

- a. Completion of a second major
- b. French through FREN 250
- c. Completion of an International Studies Area Certificate
- d. Five MDFL courses in diverse foreign languages (Chinese, Japanese, Italian and/or Portuguese)

** If you have no (or limited) previous background in Spanish, you will have to begin your language study at the elementary level (SPAN 101-102) with accelerated placement possible based on your performance.*

Accelerated Placement

All students interested in taking a foreign language Course (French and/or Spanish) are required to take an online placement exam. If the results of the placement exam determine that the student is eligible for accelerated placement, and the student completes a course above the 101-level with a grade of C or better, the student may apply to the department for academic credit for the courses waived, as summarized below.

- at the 102 level, you will be eligible to receive 3 additional credits.
- at the 211 level, you will be eligible to receive 6 additional credits.
- at the 212 level, you will be eligible to receive 9 additional credits.
- at the 250 level, you will be eligible to receive 12 additional credits.
- at the 300 level, you will be eligible to receive 15 additional credits.

There is a \$10.00 fee for each hour of credit received through accelerated placement.

Summary of Requirements for Teaching Certification Option in Foreign Languages & Literature

If you wish to complete a Maryland State approved program in teaching French or Spanish, you must:

- Complete the BA in Foreign Languages & Literature (French Literary Studies track only or Spanish).
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: Secondary School Programs.

For Minor

23

Forestry

Minor

See related programs:

- biology
 - pre-health option
 - biotechnology
 - environmental science
- environmental analysis & planning
- ethnobotany
- interpretive biology & natural history
- wildlife & fisheries

Coordinator:

Frank Ammer, Assistant
Professor, Department of
Biology

- You cannot major in forestry.

Total Hours Required:

Summary of Requirements for Minor in Forestry

Minor

1. Required Courses:

(17 hours)

BIOL 149 General Biology I (GEP Group C)
BIOL 150 General Biology II
BIOL 305 Dendrology
BIOL 425 Forest Science
BIOL 460 Forestry Field Practice

2. Electives:

(6 hours)

At least 6 credits selected from two of the following groups:
(Some of the following courses may have prerequisites.)

Geography

GEOG 317 Principles of Geographic Information Systems
GEOG 340 Soils: Genesis, Nature and Characterization
GEOG 406 Management and Conservation of Natural Resources
GEOG 413 Remote Sensing - Aerial Photo Interpretation
GEOG 430 Surface Water Hydrology
GEOG 433 Surveying
GEOG 445 Biogeography

Biology

BIOL 230 Wildlife Techniques
BIOL 410 Plant Diseases
BIOL 421 Sample Design and Plant Community Analysis
BIOL 494 Field Experiences in Biology*
BIOL 499 Special Problems in Biology *

Other electives

RECR 342 Park and Facility Design
RECR 440 Organization & Administration of Recreation & Parks
POSC 450 Environmental Public Policy
POSC 498 Readings in Political Science*
ECON 410 Resource & Environmental Economics

* Independent studies courses **MUST** address a **Forestry** topic.

Geography

Major

Minor

Concentrations in:

- mapping sciences
- global systems analysis

Professors:

Bullamore, Caupp, Precht

Associate Professor:

Kessler, Saku, G. White
(chair)

Assistant Professors:

David Arnold,
M. Ramspott, D. Welsch

- You may elect a concentration in Mapping Sciences or Global Systems Analysis.
- The department also coordinates majors in Earth Science, Environmental Analysis and Planning, and Urban and Regional Planning.
- An internship is optional.

	For Major	For Minor	For Mapping Sciences Concentration	For Global Systems Analysis Concentration
Hours Required in Geography:	40-43	22	41-42	37
Hours Required in Other Departments:	3	0	12-13	9
Total Hours Required:	43-46	22	53-55	46

Summary of Requirements for Major/Minor in Geography (without specialized concentration)

Major	Minor
1. Required Core Courses: <i>(19 hours)</i> GEOG 103 Physical Geo. (GEP Group C) GEOG 104 Human Geo. (GEP Group D or F) or GEOG 110 World Regional Geography: Cultural Diversity (GEP Group F) GEOG 275 Fundamentals of Geographic Data Handling (Tech. Fluency) GEOG 310 Fundamentals of Cartography GEOG 380 Research Methods in Geography GEOG 480 The Geographic Perspective GEOG 481 Geography Capstone	
2. Advanced Physical Geography: <i>(3-4 hours)</i> GEOG 335 Oceanography GEOG 340 Soils: Genesis, Nature and Characterization GEOG 405 Climatology GEOG 430 Surface Water Hydrology GEOG 431 Glacial & Pleistocene Geomorphology GEOG 445 Biogeography	
3. Advanced Human Geography: <i>(3 hours)</i> GEOG 300 Economic Geography GEOG 324 Urban Geography: Internal City Patterns GEOG 325 Urban Geography: Metropolitan Systems GEOG 407 Political Geography GEOG 410 Locational Analysis GEOG 425 Geography of Transportation GEOG 427 Geography of Languages & Religions (GEP Group F) GEOG 454 Geography of Tourism	
4. Advanced Regional Geography: <i>(3 hours)</i> <i>Select from:</i> GEOG 301 Geography of North America GEOG 302 Geography of Maryland GEOG 320 Geography of Latin America GEOG 401 Geography of Europe GEOG 402 Geography of Russia and the Former Republics GEOG 403 Geography of Sub-Sahara Africa	
5. Geographic Techniques: <i>(3 hours)</i> <i>Select from:</i> GEOG 317 Geographic Information Systems GEOG 412 Geographic Visualization GEOG 413 Remote Sensing - Aerial Photo Interpretation GEOG 415 Applied Design in the Mapping Sciences GEOG 433 Surveying and Field Techniques	
6. Human Earth Relationships: <i>(3 hours)</i> <i>Select from:</i> GEOG 406 Management and Conservation of Natural Resources GEOG 450 Urban Planning	

GEOG 460 Natural Hazards in the Physical Environment
 GEOG 472 Environmental Planning
 GEOG 473 Environmental Law

7. Electives

(6-8 hours)

Any two additional geography courses at or above the 300-level or equivalent except GEOG 495

(15 hours)

Select any from GEOG courses at or above the 200-level or equivalent except GEOG 495

8. Required Courses in Other Departments:

(3 hours)

MATH 209 Elements of Applied Probability & Statistics (Core Skill 3)

**Three or more credits earned in GEOG 499 Research in Geography, may count as one course.*

Requirements for Mapping Sciences Concentration

1. Required Core Courses:

(19 hours)

GEOG 103 Physical Geography (GEP Group C)
 GEOG 104 Human Geography (GEP Group D or F)
 or GEOG 110 World Regional Geography:
 Cultural Diversity (GEP Group F)
 GEOG 275 Fundamentals of Geographic Data Handling
 (Tech. Fluency)
 GEOG 310 Fundamentals of Cartography
 GEOG 380 Research Methods in Geography
 GEOG 480 The Geographic Perspective
 GEOG 481 Geography Capstone

2. Specialized Advanced Courses:

Geographic Techniques:

(13 hours)

GEOG 317 Principles of Geographic Information Science (GIS)
 GEOG 413 Remote Sensing - Aerial Photo Interpretation
 GEOG 499 Research in Geography

Select two courses from among:

GEOG 412 Geographic Visualization
 GEOG 414 Digital Image Processing and Analysis
 GEOG 415 Applied Design in the Mapping Sciences
 GEOG 417 GeoSpatial Analysis
 GEOG 418 Cartometrics
 GEOG 433 Surveying and Field Techniques

3. Complementary Advanced Courses:

(9-10 hours)

Select one course from three of the four groups:

Group I Physical Geography:

(0-4 hours)

GEOG 335 Oceanography
 GEOG 340 Soils: Genesis, Nature and Characterization
 GEOG 405 Climatology
 GEOG 430 Surface Water Hydrology
 GEOG 431 Glacial & Pleistocene Geomorphology
 GEOG 445 Biogeography

Group II Human Geography:

(0-3 hours)

GEOG 300 Economic Geography
 GEOG 324 Urban Geography: Internal City Patterns

1. Required Core Courses:

(19 hours)

GEOG 103 Physical Geography (GEP Group C)
 GEOG 104 Human Geography (GEP Group D or F)
 or GEOG 110 World Regional Geography: Cultural
 Diversity (GEP Group F)
 GEOG 275 Fundamentals of Geographic Data Handling
 (Tech. Fluency)
 GEOG 310 Fundamentals of Cartography
 GEOG 380 Research Methods in Geography
 GEOG 480 The Geographic Perspective
 GEOG 481 Geography Capstone

2. Specialized Advanced Courses:

(15 hours)

Group I Human Geography:

(9 hours)

GEOG 300 Economic Geography
 GEOG 407 Political Geography

Select one from:

GEOG 325 Urban Geography: Metropolitan Systems
 GEOG 410 Locational Analysis
 GEOG 425 Geography of Transportation
 GEOG 427 Geography of Languages and Religions (GEP Group F)
 GEOG 454 Geography of Tourism

Group II Regional Geography:

(6 hours)

Select two from:

GEOG 320 Geography of Latin America
 GEOG 401 Geography of Europe
 GEOG 402 Geography of Russia and the Former Republics
 GEOG 403 Geography of Sub-Saharan Africa

3. Complementary Advanced Courses:

(3-4 hours)

Select one course from one of the three groups:

Group I Physical Geography:

(0-4 hours)

GEOG 335 Oceanography
 GEOG 340 Soils: Genesis, Nature and Characterization

**some courses may have prerequisites*

Requirements for Mapping Sciences Concentration continued

GEOG 325 Urban Geography: Metropolitan Systems
 GEOG 407 Political Geography
 GEOG 410 Locational Analysis
 GEOG 425 Geography of Transportation
 GEOG 427 Geography of Languages and Religions (*GEP Group F*)
 GEOG 454 Geography of Tourism

Group III Regional Geography:*(0-3 hours)*

GEOG 301 Geography of North America
 GEOG 301 Geography of Maryland
 GEOG 320 Geography of Latin America
 GEOG 401 Geography of Europe
 GEOG 402 Geography of Russia and the Former Republics
 GEOG 403 Geography of Sub-Sahara Africa

Group IV Human Earth Relationships:*(0-3 hours)*

GEOG 406 Management and Conservation of Natural Resources
 GEOG 450 Urban Planning
 GEOG 460 Natural Hazards in the Physical Environment
 GEOG 472 Environmental Planning
 GEOG 473 Environmental Law

4. Required Courses in Other Departments*:*(12-13 hours)*

MATH 209 Elements of Applied Probability & Statistics
(Core Skill 3)

Select one course:

MATH 102 College Algebra (*Core Skill 3*)
 MATH 103 Trigonometry
 MATH 220 Calculus for Applications I
 MATH 221 Calculus for Applications II
 MATH 236 Calculus I (*Core Skill 3*)
 MATH 237 Calculus II

Select two courses:

ART 104 Two-Dimensional Design
 ART 207 Graphic Design
 ART 212 Drawing
 COSC 130 Introduction to Programming
 COSC 240 Computer Science I (4 cr.)
 PSYC 306 Sensation and Perception
 PSYC 409 Human Learning and Cognition

some of these courses may have prerequisites*5. Recommendations:***Students are encouraged to select additional course work:*

MATH 220 & 221 Calculus I and II - *especially for remote sensing*

Requirements for Global Systems Analysis Concentration continued

GEOG 405 Climatology
 GEOG 430 Surface Water Hydrology
 GEOG 431 Glacial & Pleistocene Geomorphology
 GEOG 445 Biogeography

Group II Geographic Techniques:*(0-3 hours)*

GEOG 317 Principles of Geographic Information Science (GIS)
 GEOG 412 Geographic Visualization
 GEOG 413 Remote Sensing - Aerial Photo Interpretation
 GEOG 415 Applied Design in the Mapping Sciences
 GEOG 433 Surveying and Field Techniques

Group III Human Earth Relationships:*(0-3 hours)*

GEOG 406 Management and Conservation of Natural Resources
 GEOG 450 Urban Planning
 GEOG 460 Natural Hazards in the Physical Environment
 GEOG 472 Environmental Planning
 GEOG 473 Environmental Law

4. Required Courses in Other Departments*:*(9 hours)*

MATH 209 Elements of Applied Probability and Statistics
(Core Skill 3)

and select two from:

ECON 309 Comparative Economic Systems
 ECON 400 International Trade
 ECON 401 International Finance
 ECON 405 Econ. Growth & Develop.: Developing Economies
 HIST 304 History of Latin America
 HIST 309 World Environmental History
 HIST 341 Modern & Contemporary Middle East
 HIST 404 Revolutionary and Soviet Russia
 HIST 422 Diplomatic History of Europe
 HIST 450 History of Mexico
 HIST 453 Contemporary Africa
 HIST 455 Latin American Revolutions
 HIST 457 India
 HIST 458 History of China and Korea
 HIST 459 History of Japan
 HIST 476 Modern Europe
 PHIL 311 Asian and African Philosophy (*GEP Group F*)
 PHIL 315 Philosophy and the Environment
 POSC 330 Politics of Africa
 POSC 331 Politics of Latin America
 POSC 332 Politics of the Middle East
 POSC 333 Politics of Europe
 POSC 341 International Organization
 POSC 431 Russian Politics
 POSC 435 Model Organization of American States
 POSC 441 International Relations: Theory and Practice

Foreign language courses at the 200 level or higher may fulfill this requirement.

** some courses may have prerequisites*

Graphic Design

Minor

Professors:

Brown, Davis, Dieruf,
Llewellyn

Associate Professor:

Rhodes (chair)

Assistant Professor:

Herzfeld, Hodges

- Minors are also offered in fine arts and art history. A major is offered in Art & Design. See separate listings in this catalog.
- Only courses in which a grade of C or better is earned may count towards satisfaction of major and minor requirements.
- You cannot major in Graphic Design.

	For Minor
Hours Required in Art:	24
Hours Required in Other Departments:	0
Total Hours Required:	24

Summary of Requirements for Minor in Graphic Design

Minor

1. Basic Courses:

(9 hours)

ART 104 Two-Dimensional Design
ART 105 Three-Dimensional Design
ART 207 Graphic Design (*Tech. Fluency*)

2. Art History and Critical Studies:

(6 hours)

ART 415 Art Criticism
and choose 3 hours from:
ART 360 Western Art History
ART 408 20th Century Art History

3. Introductory Studio:

(3 hours)

Choose from:
ART 202 Ceramics
ART 221 Painting
ART 232 Printmaking
ART 235 Photography
ART 240 Sculpture

4. Advanced Studio Focus:

(6 hours)

ART 307 Computer Graphics
ART 407 Advanced Graphic Design (Print & Video)

History

Major

Minor

Concentrations in:

- international history
- history of the Americas

Professors:

Clulee (Chair), Dean

Associate Professors:

Boniece, Charney

Assistant Professors:

Abbay, Wood

Instructor:

Rands

- Only courses in which a grade of C or better is earned will count towards satisfaction of major requirements.
- An internship is optional.

	For Major	For Minor
Hours Required in History:	39	24
Hours Required in Other Departments:	6	0
Total Hours Required:	45	24

Summary of Requirements for Major/Minor in History

Major	Minor
1. Core Introductory Level Courses: <i>(12 hours)</i> HIST 103 History of the United States HIST 104 History of the United States HIST 113 World History HIST 114 World History	<i>(12 hours)</i> HIST 103 History of the United States HIST 104 History of the United States HIST 113 World History HIST 114 World History
2. Research Core: <i>(6 hours)</i> HIST 299 Writing and Research in History <i>(Completion of HIST 299 with a C or better is required for admission to the history major. Students may file a declaration of major BEFORE completing HIST 299).</i> HIST 485 Seminar in History <i>(Capstone. Must be completed during the senior year with a grade of C or better)</i>	
3. Concentrations: <i>(27 hours)</i> <i>Majors must choose one of the following concentrations:</i> International History History of the Americas	
4. Electives <i>(0 hours)</i>	Minor <i>(12 hours)</i> <i>Select from any courses at the 300 or 400 level.</i>

Requirements for International History Concentration

1. Select five courses from the following:
 - HIST 301 Traditional Africa
 - HIST 303 History of Latin America
 - HIST 304 History of Latin America
 - HIST 306 Medieval Europe
 - HIST 307 Renaissance and Reformation Europe
 - HIST 308 Europe, 1600-1815
 - HIST 309 World Environmental History
 - HIST 310 Ancient Greece and Rome
 - HIST 318 Native Peoples of the Americas *(GEP Group F)*
 - HIST 319 A History of Terrorism
 - HIST 341 Modern & Contemporary Middle East
 - HIST 390 Special Topics in International History
 - HIST 403 Imperial Russia
 - HIST 404 Revolutionary and Soviet Russia
 - HIST 436 Women's Issues in World History *(GEP Group F)*
 - HIST 450 History of Mexico
 - HIST 453 Contemporary Africa
 - HIST 455 Latin American Revolutions
 - HIST 457 India
 - HIST 458 History of China and Korea
 - HIST 459 History of Japan
 - HIST 460 Modern and Contemporary Asia
 - HIST 475 Genocide and Mass Violence
 - HIST 476 Modern Europe

Requirements for History of the Americas Concentration

2. *Select two history courses from the History of the Americas concentration.*
3. *Select two complementary courses from the following areas (some of these courses may require additional pre-requisite course work):*
 - ART 301 Artistic Traditions: Asia (GEP Group F)
 - ART 302 Artistic Traditions: Africa & the Americas (GEP Group F)
 - ART 360 Western Art History
 - ECON 309 Comparative Economic Systems
 - ECON 405 Economic Growth and Development
 - ENGL 270 European and Non-European Literature
 - ENGL 271 Asian and African Literature
 - ENGL 332 The Age of Johnson
 - ENGL 340 Shakespeare
 - ENGL 371 The Middle Ages in Literature
 - ENGL 372 Early Modern Literature
 - ENGL 373 Literature of the Enlightenment
 - ENGL 374 Age of Revolution
 - ENGL 375 Romanticism
 - ENGL 376 Realism and Naturalism
 - ENGL 377 Modernism
 - ENGL 378 Postmodernism
 - ENGL 379 Postcolonial Literature
 - GEOG 320 Geography of Latin America
 - GEOG 401 Geography of Europe
 - GEOG 402 Geography of Russia and the Former Republics
 - GEOG 403 Geography of Sub-Saharan Africa
 - POSC 330 Politics of Africa
 - POSC 331 Politics of Latin America
 - POSC 332 Politics of the Middle East
 - POSC 333 Politics of Europe
 - POSC 431 Russian Politics

1. *Select five courses from the following:*
 - HIST 303 History of Latin America
 - HIST 304 History of Latin America
 - HIST 309 World Environmental History
 - HIST 318 Native Peoples of the Americas (GEP Group F)
 - HIST 345 History of Maryland
 - HIST 380 The American West
 - HIST 436 Women's Issues in World History (GEP Group F)
 - HIST 450 History of Mexico
 - HIST 455 Latin American Revolutions
 - HIST 461 Colonial America, 1607-1763
 - HIST 462 Revolutionary America, 1763-89
 - HIST 463 The Age of Jefferson and Jackson, 1789-1848
 - HIST 464 The Civil War and Reconstruction, 1849-77
 - HIST 465 Gilded Age America, 1877-1913
 - HIST 466 The U.S. in the 20th Century, 1914-45
 - HIST 467 The U.S. in the 20th Century, 1945-Present
 - HIST 470 America and the Vietnam War
 - HIST 490 Special Topics in History of the Americas
2. *Select two history courses from the International History concentration.*
3. *Select two complementary courses from the following areas (some of these courses may require additional pre-requisite course work):*
 - ART 302 Artistic Traditions: Africa & the Americas (GEP Group F)
 - ECON 303 American Economic Development
 - ECON 405 Economic Growth and Development
 - ENGL 261 American Literature: Colonial to Present
 - ENGL 372 Early Modern Literature
 - ENGL 373 Literature of the Enlightenment
 - ENGL 374 Age of Revolution
 - ENGL 375 Romanticism
 - ENGL 376 Realism and Naturalism
 - ENGL 377 Modernism
 - ENGL 378 Postmodernism
 - ENGL 379 Postcolonial Literature
 - GEOG 301 Geography of North America
 - GEOG 324 Urban Geography: Internal City Patterns
 - POSC 321 American State and Local Politics
 - POSC 331 Politics of Latin America
 - POSC 363 Media and Politics
 - POSC 421 American Legislative Politics
 - POSC 427 The American Presidency
 - POSC 471 American Political Thought
 - SOCI 305 Racial and Cultural Minorities (GEP Group F)

Journalism

Total Hours Required:
24

Minor

Summary of Requirements for Minor in Journalism

Minor

Coordinator:

A. Franklin Parks,
Professor, Department of
English

Participating Faculty:
Professors:

McShane (English), L. Pack
(Mass Communication), A. F.
Parks (English)

Associate Professors:

Boniece (History), Charney
(History), Makang
(Philosophy), T. Smith
(English)

Assistant Professor:

Ewers

1. English:

(12 hours)

ENGL 336 Journalistic Writing
ENGL 402 Editing and Production
ENGL 436 Advanced News and Feature Writing
ENGL 494 Field Experience

2. History:

(3 hours)

*Choose one from the following:**

HIST 304 History of Latin America
HIST 341 Modern and Contemporary Middle East
HIST 404 Revolutionary and Soviet Russia
HIST 453 Contemporary Africa
HIST 460 Modern and Contemporary Asia
HIST 467 U.S. in the 20th Century, 1945-Present
HIST 475 Genocide and Mass Violence
HIST 476 Modern Europe

3. Mass Communication:

(6 hours)

MCOM 326 Writing for the Electronic Media
MCOM 447 Telecommunications Law

4. Political Science:

(3 hours)**

POSC 363 Media and Politics***

- The minor in journalism will help you develop:

- Improved communication skills
- Familiarity with the roles that journalists perform in different environments
- Understanding of cultural differences, political matters, and global issues facing the practicing journalist today
- Enhanced problem-solving skills
- Ability to perform specific tasks related to print and media journalism
- Awareness of legal and ethical restrictions on journalists

- You cannot major in journalism.

**Students minoring in journalism are encouraged to take HIST 100, The Contemporary World in Historical Perspective, towards fulfilling the six-hour requirement in the Humanities (Group B) for the General Education Program.*

***Students minoring in journalism are encouraged to take POSC 110, Introduction to American Politics, or POSC 113, Introduction to World Politics, towards fulfilling the six-hour requirement in the Social Sciences (Group D) for the General Education Program.*

****The Political Science Department has agreed to waive the pre-requisite for POSC 363 for journalism minors.*

Law

Bachelors/Juris Doctor Program

Dual-degree program

Coordinator:

Scott Johnson, Associate Professor, Department of Political Science

- Frostburg State University students may earn the last 29 of the 120 credit hours required by Frostburg State University for graduation at the University of Baltimore School of Law. The result of this Bachelors/Juris Doctor Program is that students may attain an undergraduate and a law degree in six years instead of the normal seven years.

Hours Required at Frostburg State University	91
Hours Required at University of Baltimore School of Law	29
Total Hours Required:	120

Summary of Requirements at FSU for the Bachelors/Juris Doctor Program

1. Complete 91 credit hours with Frostburg State University.
2. Complete all of Frostburg State University's general education requirements.
3. Maintain cumulative grade point averages as required at FSU for the academic major and overall course work.
4. Complete all requirements for an academic major at Frostburg State University.
5. Be accepted by the University of Baltimore School of Law into its early admission program. Students can apply for early admission by simply checking the appropriate box on the regular application form.
6. Attain the Bachelor's degree from Frostburg State University upon transferring 29 credits from the University of Baltimore School of Law.

In addition it is recommended that students meet the following criteria:

1. Maintain a grade point average of 3.3 or above at Frostburg State University to enhance the chances for acceptance by the University of Baltimore School of Law.
2. Complete one of the following majors at Frostburg State University: economics, French, geography, history, law and society, philosophy, political science, psychology, sociology, or Spanish. Other majors are possible, but may require the completion of more than 91 credit hours.

Law and Society

Major

Concentrations in:

- criminal justice
- legal studies

Coordinator:

Scott Johnson, Associate Professor, Department of Political Science

Coordinating Committee:

Professor:

T. Mappes (Philosophy)

Associate Professors:

S. Johnson, Lewis (Political Science) Olson (Sociology)

Assistant Professor:

McMullen (Sociology)

- Law and Society is an interdisciplinary major that offers concentrations in criminal justice and legal studies.
- An internship is optional but strongly encouraged.

	For Major	For Criminal Justice Concentration	For Legal Studies Concentration
Total Hours Required:	46-49	49	46

Summary of Requirements for Major in Law and Society

Major

1. Required Core Courses:

(19 hours)

POSC 110 Intro. to American Politics (GEP Group D)

or POSC 112 Honors Intro. to American Politics (GEP Group D)

SOCI 100 Intro. to Sociology (GEP Group D)

or SOCI 111 Honors Intro. to Sociology (GEP Group D)

PHIL 102 Contemporary Ethical Problems (GEP Group B)

or PHIL 201 Ethics

POSC 250 Research Methods

or SOCI 311 Basic Research Methods

POSC 422 American Constitutional Law I

POSC 423 American Constitutional Law II

POSC 489 Law & Society Capstone

2. Concentrations:

(27-30 hours)

Complete one of the following concentrations:

Concentration in Legal Studies

(27 hours)

A. Required Course (3 hours)

PHIL 410 Philosophy of Law

B. Elective Courses (24 hours)

Select a total of eight courses, with at least three from Group 1 and at least four from Group 2:

- Only courses in which a grade of C or better is earned will satisfy major requirements.
- You cannot minor in Law and Society.

Group 1

BLAW 291 Legal Environment of Business
 GEOG 473 Environmental Law
 MCOM 447 Telecommunications Law
 MGMT 457 Labor Relations
 POSC 324 Criminal Justice Systems
 POSC 488 Comparative Legal Systems

Group 2

CMST 302 Argumentation and Advocacy
 PHIL 205 Logic
 PHIL 304 Social Philosophy
 POSC 321 State and Local Politics
 POSC 323 Public Administration
 POSC 358 American Public Policy
 SOCI 340 Criminology
 SOCI 442 Juvenile Delinquency
 SOCI 443 The American Correctional System

Concentration in Criminal Justice

(30 hours)

A. Required Courses (27 hours)

CMST 102 Introduction to Human Communication
 or CMST 122 Introduction to Public Speaking
 PHIL 304 Social Philosophy
 or PHIL 410 Philosophy of Law
 POSC 321 State and Local Politics
 POSC 323 Public Administration
 POSC 324 Criminal Justice Systems
 SOCI 200 Social Problems
 or SOCI 203 Deviant Behavior
 SOCI 340 Criminology
 SOCI 442 Juvenile Delinquency
 SOCI 443 The American Correctional System

B. Elective Courses (3 hours)

Select one course from among:

PSYC 386 Drugs and Human Behavior
 SOCI 305 Racial and Cultural Minorities (GEP Group F)
 POSC 358 American Public Policy

3. Internship:

(optional; 9 or 15 hours)

POSC 492 Internship Seminar
 POSC 495 Internship in Political Science

Law School Preparation

Pre-professional program

Pre-law Advisor:

Scott Johnson, Associate Professor, Department of Political Science

- While you cannot major or minor in law school preparation, there are law-related courses offered at Frostburg State University.
- Prospective law students should carefully examine the catalog of the law school they wish to attend in order to determine the test requirements for that school.

The traditional preparatory majors for entering law schools have been political science, history, English, philosophy, or sociology. Most law schools prefer that undergraduates interested in admission to law school *not* follow a prescribed “pre-law” curriculum. Rather, they prefer that students pursue a broad, *liberal* education.

Almost all professional law schools require applicants to take the Law School Aptitude Test. In some cases, the Graduate Record Exam may also be required. Information regarding the L.S.A.T. may be obtained from this university’s pre-law advisor. Information regarding the G.R.E. may be obtained from University Counseling and Psychological Services.

Prospective law students should strive to acquire exceptional ability in communication; gain critical understanding of human values and institutions; and develop understanding in the use of various types of reasoning: deductive, inductive, and analogous. Students should develop the ability to think creatively and to analyze critically. They should also learn how to recognize, differentiate, and organize facts according to their relevance to particular issues.

Suggested Elective Courses for Law School Preparation

The following courses may be especially helpful in achieving the qualities stated above. Students are advised to choose elective courses from this list:

BLAW 291	Legal Environment of Business
CMST 122	Intro. to Public Speaking
CMST 225	Interviewing
CMST 302	Argumentation & Advocacy
CMST 322	Presentational Communication
CMST 451	Seminar in Communication Theory
ECON 307	Govt. and Business
ECON 404	Public Finance
ENGL 330	Business Writing
ENGL 334	Creative Writing
ENGL 336	Journalistic Writing
ENGL 338	Technical Writing
GEOG 450	Urban Planning
GEOG 473	Environmental Law
HIST 103,104	History of U.S. I, II
PHIL 102	Contemporary Ethical Problems
PHIL 205	Logic
PHIL 410	Philosophy of Law
POSC 324	Criminal Justice Systems
POSC 422,423	American Constitutional Law I, II
SOCI 200	Social Problems
SOCI 443	The Amer. Correctional System

Law School Admission Test (LSAT) Preparation Course

This non-credit course is designed to help students prepare for the Law School Admission Test (LSAT), a prerequisite for all students seeking admission to law school. The course is offered twice during the academic year in preparation for the October and June tests. There is a fee for the course that covers the costs of instruction and a textbook that contains more than 500 questions and problems, including analytical exercises, practice tests, and a full-length home-study exam. The course covers each of the main sections of the LSAT in depth: application of rules, reading comprehension, logical games, logical reasoning, and essay writing. For each section, students are exposed to a wide variety of sample questions, which are analyzed in class, and various suggestions and methods are presented in lectures for approaching the types of questions in each section.

Graduates of the LSAT prep course have gained admission to such law schools as The Georgetown University Law Center, Duquesne University School of Law, The University of Baltimore School of Law, The West Virginia University College of Law, Appalachian School of Law, Ohio Northern University College of Law, The Thomas M. Cooley Law School, and Liberty College of Law.

For further information, contact Dr. Scott Johnson, pre-law advisor and instructor of the course.

Mass Communication

Major

Professors:

Pack, Phipps

Associate Professor:

Lombardi (chair)

Assistant Professor:

McAlexander

- Only courses in which you earn a grade of C or better may count towards satisfaction of major requirements.
- All grades earned in courses completed for the major in Mass Communication count in determining whether you meet the graduation requirement of a 2.0 cumulative grade point average in the major.
- All courses completed for the Mass Communication major count in determining whether one-half of the major is completed at FSU.

	For Major
Hours Required in Mass Communication	27 - 39
Hours Required in Other Departments:	0 - 12
Total Hours Required:	39

Summary of Requirements for Major In Mass Communication

Major

1. Introductory/Prerequisite Courses:

(3 hours)

MCOM 105 Introduction to Mass Communication

2. Mass Communication Practice Courses:

(6 hours)

MCOM 212 Video Production Industry

MCOM 246 Intro to Mass Communication Research Methods*

3. Advanced Mass Communication Courses:

(15 hours)

MCOM 326 Writing for Electronic Media*

MCOM 346 Mass Communication Theory*

MCOM 447 Telecommunications Law*

MCOM 485 Electronic Media Aesthetics & Criticism*

MCOM 486 Current Issues and New Technology in Mass Communication*

4. Capstone Experience:*

(3 hours)

MCOM 494 Mass Communication Practicum or MCOM 492 Internship Project

You are required to participate in a three-credit Practicum. This requirement may be met by completing three credits of MCOM 494 Mass Communication Practicum, or by completing the graded academic portion of the internship course MCOM 492 Internship Project.

5. Professional Focus:

(12 hours)

All MCOM majors must complete one of the focus groupings listed below OR one of the following minors: Communication Studies, Graphic Design, Journalism, Leadership Studies, Marketing or Public Relations. Students wishing to substitute a course for one of the courses in the listed focus groupings may petition the Chair, in writing, prior to earning 90 credit hours. Many of these courses have prerequisites and students should plan their earlier studies accordingly.

Audio Production

Choose four from:

MCOM 213 Audio Production

MCOM 250 Announcing and Performance

MCOM 313* Advanced Audio Production

MCOM 465* Music Promotion and Production

MCOM 499* Directed Study

MUSC 358 The Business of Music & Arts Management

Video Production

MCOM 311* Single Camera Production

MCOM 487* Advanced Video Production

MCOM 488* Multi-Camera Field Production

MCOM 499* Directed Study

Audio/Video Production

Choose two from each group:

Group 1

MCOM 213 Audio Production

MCOM 313* Advanced Audio Production

MCOM 465* Music Promotion and Production

MCOM 499* Directed Study

**Course has prerequisites; consult the course description section of this catalog*

Group 2

MCOM 311* Single Camera Production
 MCOM 487* Advanced Video Production
 MCOM 488* Multi-Camera Field Production
 MCOM 499* Directed Study

Radio Industry

Choose four from:

MCOM 150 Introduction to Radio
 MCOM 213 Audio Production
 MCOM 313* Advanced Audio Production
 MCOM 316* Telecommunications Management
 MCOM 336* Broadcast-Cable Programming

Media Management†

Choose four from:

MCOM 316* Telecommunications Management
 MCOM 336* Broadcast-Cable Programming
 CMST 335 Organizational Communication
 MGMT 351* Management of Organizations
 MGMT 356* Leadership and Human Behavior
 MGMT 357* Human Resource Management

Multimedia Design

ART 207 Graphic Design (*Tech. Fluency*)
 ART 307* Computer Graphics
 ART 414* Advanced Graphic Design: Multimedia Design (*6 hours*)

Recommended:

ART 407* Advanced Graphic Design: Print & Video Media

Events Planning

Choose four from:

MCOM 465* Music Promotion and Production
 MCOM 499* Directed Study
 CMST 102 Introduction to Human Communication
 or CMST 122 Introduction to Public Speaking
 CMST 485 Issues and Responsibilities of Communication
 RECR 382 Program Planning
 RECR 384 Special Events Management

Web Management

COSC 101 The Discipline of Computer Science
 COSC 120 Introduction to Cyberspace
 COSC 330* Web Design and Development
 COSC 345* The Internet and Multimedia Communication

Media Promotion†

Choose four from:

MCOM 456* Creative Strategies in Advertising and Media Buying
 MCOM 499* Directed Study
 MKTG 361* Principles of Marketing
 MKTG 363* Advertising
 MKTG 366* Consumer Behavior

**Course has prerequisites; consult the course description section of this catalog*

† This program is intended to give a foundational background in some business aspects of MCOM, but is not intended as preparation for a professional career in business.

Mathematics

Major

Minor

Teaching Certification Option

Professors:

Hegde, M. Hughes, K.
Lemmert, K. Parks,
Revennaugh (Chair)

Associate Professors:

Barnet, Elder, Wojnar

Assistant Professors:

Forsythe, Michael

- You may major or minor in Mathematics
- You may elect the teaching certification option with required internship.
- Elementary Education students may elect a specialization in Mathematics.
- You may elect to focus in Mathematical Sciences (*see next section*). The Mathematical Sciences Focus is designed for mathematics, chemistry, and physics majors.
- The department offers an honors program.

	For Major	For Minor	For Teaching Cert. Option
Hours Required in Mathematics:	39	21	39
Hours Required in Other Departments:	0	0	42.5
Total Hours Required:	39	21	81.5

Summary of Requirements for Major/Minor in Mathematics

Major	Minor
1. Basic Courses <i>(21 hours)</i> MATH 236 Calculus I (<i>Core Skill 3</i>) MATH 237 Calculus II MATH 238 Calculus III MATH 350 Linear Algebra I MATH 470 Mathematical Models MATH 491 Seminar in Mathematics (<i>Capstone</i>)	<i>(12 hours)</i> MATH 236 Calculus I (<i>Core Skill 3</i>) MATH 237 Calculus II MATH 238 Calculus III
2. Electives <i>(18 hours)</i> <i>Select from courses at the 300 or 400 level, except MATH 340 Fundamental Concepts of Geometry, MATH 483 Theory of Interest, MATH 485 Actuarial Mathematics II, or MATH 495 Internship in Mathematics</i>	<i>(9 hours)</i> <i>Select from courses at the 300 or 400 level, except MATH 340 Fundamental Concepts of Geometry, MATH 483 Theory of Interest, MATH 485 Actuarial Mathematics II, or MATH 495 Internship in Mathematics</i>

Summary of Requirements for Major in Mathematics - Teaching Certification Option

- Basic Core Curriculum**
(21 hours)
 MATH 236 Calculus I (*Core Skill 3*)
 MATH 237 Calculus II
 MATH 238 Calculus III
 MATH 350 Linear Algebra I
 MATH 470 Mathematical Models and Applications
 MATH 491 Seminar in Mathematics (*Capstone*)
- Mathematics Teaching Certification Option Requirements**
(18 hours)
 MATH 380 Introduction to Probability and Statistics
 MATH 437 Combinatorics and Graph Theory
 MATH 440 Modern College Geometry
 MATH 461 History of Mathematics
 MATH 465 Theory of Numbers
 MATH 415 Foundations of Mathematics
 or MATH 451 Modern Higher Algebra
- Professional Education Sequence**
(42.5 hours)

Summary of Requirements for Teaching Certification

If you wish to complete a Maryland State approved program in teaching Mathematics, you must:

- Complete the BA/BS in Mathematics - Teaching Certification Option.
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: Secondary School Programs

Mathematical Sciences

Focus

Coordinator:

Lance Revennaugh, Chair,
Department of Mathematics

- You may elect to focus in Mathematical Sciences.
- The Mathematical Sciences Focus is designed for Mathematics, Chemistry, and Physics majors.
- You cannot major or minor in Mathematical Sciences.

	For Focus
Hours Required in Mathematics:	12
Hours Required in Other Departments:	10-12
Total Hours Required:	22-24

Summary of Requirements for Focus in Mathematical Sciences

Focus

1. Core Mathematics Courses:

(3 hours)

From among:

MATH 415 Foundations of Mathematics
MATH 425 Introduction to Real Analysis
MATH 440 Modern College Geometry
MATH 451 Modern Higher Algebra
MATH 452 Linear Algebra II
MATH 460 Introductory Topology
MATH 465 Theory of Numbers

2. Applied Mathematics:

(9 hours)

From among:

MATH 380 Introduction to Probability and Statistics
MATH 420 Advanced Calculus
MATH 426 Introduction to Complex Analysis
MATH 432 Differential Equations
MATH 435 Numerical Analysis
MATH 436 Mathematical Physics
MATH 437 Combinatorics and Graph Theory
MATH 470 Mathematical Models and Applications
MATH 480 Probability and Statistics
MATH 481 Applied Regression Analysis
MATH 492 Internship Seminar

3. Required Courses in Other Departments:

Computer Science

(7-8 hours)

From among:

COSC 240 Computer Science I
COSC 241 Computer Science II
COSC 350 Computer Organization and Assembly Language
COSC 450 Programming Language Structures

Science

(3-4 hours)

PHYS 261 Principles of Physics I (GEP Group C) or
CHEM 441 Physical Chemistry I

Medical Technology Preparation

Pre-professional program

Coordinator:

Don Weser, Professor,
Department of Chemistry

- You must complete at least 60 hours of academic preparation, exclusive of Health & Physical Education, before beginning the professional segment of this program.
- The Summary of Requirements will assist you in planning your first two years of study which fulfill the requirements of the University of Maryland, Baltimore and the National Accrediting Agency for Clinical Laboratory Science. Students interested in attending other institutions should consult their catalogs for specific entrance requirements.
- The Pre-Medical Technology Program is competitive and high-quality academic performance is expected.
- You cannot major or minor in Medical Technology Preparation.

For Pre-professional Program

Total Hours:

56-57

Summary of Requirements for Pre-professional Program in Medical Technology

1. Biology:

(11-12 hours)

BIOL 149 General Biology I

BIOL 304 Microbiology

Biology Elective - choose one from the following:

BIOL 310 Cell Biology

BIOL 350 Genetics

2. Chemistry

(13 hours)

CHEM 101 General Chemistry I

CHEM 102 General Chemistry II

CHEM 301 Organic Chemistry I

3. English

(6 hours)

ENGL 101/111 Freshman Composition

or ENGL 310/312 Advanced Composition

ENGL 150/250 Intro. to Literature

or an advanced English/American Literature course

4. Humanities

(3 hours)

Select a non-performing course from art, music, foreign language (2nd year or above), humanities, communication studies, theatre, philosophy.

5. Mathematics

(6 hours)

MATH 102 College Algebra

MATH 209/219 Elements of Applied Probability and Statistics

6. Guided Electives

(3 hours)

Choose one course:

COSC 100/110 Intro. to Computer Science

or an advanced computer science course

CMST 102/112 Introduction to Human Communication

CMST 122 Introduction to Public Speaking

7. Social Sciences

(6 hours)

Select courses from economics, geography, history, political science, psychology, sociology, African American studies.

8. Electives

(minimum 8 hours)

Strongly recommended:

CHEM 302 Organic Chemistry II

PHYS 215 General Physics I

or PHYS 261 Principles of Physics I

BIOL 201 Anatomy and Physiology I

BIOL 202 Anatomy and Physiology II

Medicine Dentistry Optometry Veterinary Medicine Preparation

Pre-professional programs

Coordinator:

Mary Mumper, Chair,
Health Professions Advisory
Committee and Associate
Professor, Department of
Chemistry

- Students applying for professional school should stay in contact with the Health Professions Advisory Committee. The committee interviews candidates for professional school and supplies a committee letter of recommendation to the applicants' prospective school. This procedure enhances the students' application prospects.

Summary of Requirements for Medical, Dental, Optometry & Veterinary Medicine Pre-Health Professions Program

1. Students intending to enter health professions schools should plan their academic programs carefully to meet pre-professional, university and major requirements.
2. Pre-health professions students should continually examine the catalog of the institution they plan to attend in order to complete courses required by the professional school and to fulfill additional entrance expectations. Students should bear in mind that requirements change and they should maintain contact with any professional schools they want to attend.
3. A science major is not a prerequisite for medical school; therefore, a major should be selected in which the student has a high aptitude and interest and which provides career alternatives. A proper course selection is most important; consequently, we highly recommend early consultation with the chair of the department of your selected major, who will assign you to a pre-health professions advisor.

4. Most pre-health professions students at FSU select biology or chemistry as majors. The Pre-Health Professions Option outlined in the Biology section of this catalog should be selected by students majoring in Biology. Chemistry students planning medical school and other pre-health professional programs complete either the Biochemistry concentration or Traditional Track outlined for the Chemistry major. Students opting to minor in either department are advised to use sections 5 and 6 below as a guide to course selection.

5. Professional schools generally require a demonstrated proficiency in the basic sciences. The following courses are among the minimum requirements for students planning to prepare for medical, dental, optometry or veterinary school.

BIOL 149 and 150	General Biology I and II	8 cr.
CHEM 101 and 102	General Chemistry I and II	8 cr.
CHEM 301 and 302	Organic Chemistry I and II	10 cr.
PHYS 215, 216 or 261, 262	General Physics I, II or Principles of Physics I, II	8 cr.
MATH — 2 courses	*See options in #6	6 cr.

6. Some professional schools require and many recommend additional courses as minimal requirements. The following list should be used as a guide for course selection by students in any major.

BIOL 304	Microbiology	4 cr.
BIOL 302	Animal Physiology	4 cr.
BIOL 310	Cell Biology	4 cr.
BIOL 327	Comparative Anatomy	5 cr.
BIOL 350	Genetics	4 cr.
BIOL 404	Histology	4 cr.
BIOL 435	Molecular Biology	4 cr.
CHEM 320	Quantitative Analytical Chemistry	4 cr.
CHEM 441, 442	Physical Chemistry Lec. I & II	6 cr.
CHEM 455, 457	Biochemistry Lec. I & II	6 cr.
ENGL 338	Technical Writing	3 cr.
MATH 120	Pre-Calculus	3 cr.
MATH 236, 237, 238	Calculus I, II, III	12 cr.
MATH 209 or 380	Probability & Statistics	3 cr.
PHIL 313	Biomedical Ethics	3 cr.

7. Biochemistry I (CHEM 455) is an entrance requirement at the Virginia-Maryland Regional College of Veterinary Medicine.

8. Almost all professional schools require applicants to take certain standardized examinations.

Medical Schools	—	Medical College Admission Test (MCAT)
Dental Schools	—	Dental Admissions Test (DAT)
Optometry Schools	—	Optometry Admission Test (OAT)
Veterinary Schools	—	Graduate Record Exam (GRE)

You may obtain information about the tests from Career Services.

Music

Major and minor

Concentrations in:

- vocal performance
- music management

Track in:

- instrumental performance

Teaching Certification Option

Professor:

Grolman, Soderberg Sarnaker
(Co-Chair, Division of
Performing Arts)

Associate Professor:

Dixon

Assistant Professor:

M. Gallagher

- All students entering or re-entering the major are required to pass an audition in their primary performance area before being accepted as a music major. Students changing their primary performance area must re-audition before being re-accepted as a music major.
- You must choose a concentration, a track or the teaching certification option.
- Only courses in which you earn a grade of C or better will count towards satisfaction of major requirements.

	For Teaching Cert. Option	For Major Concentrations Vocal Perform	Music Mgmt	For Major Track Instrumental Perform	For Minor
Hours Required in Music:	61.5	66	63.5-66.5	63	23
Hours Required in Other Depts:	37.5	18-24	21	0	0
Total Hours Required:	99	84-90	84.5-87.5	63	23

Summary of Requirements for Major/Minor in Music

Major	Minor
Core Requirements: <i>(47.5-49 hours)</i>	
1. Music Theory: <i>(16 hours)</i> MUSC 102 Theory I MUSC 103 Theory II MUSC 104 Aural Skills I MUSC 105 Aural Skills II MUSC 204 Theory III MUSC 205 Theory IV MUSC 206 Aural Skills III MUSC 207 Aural Skills IV	
2. Music History & Literature: <i>(9 hours)</i> MUSC 110 World Music (GEP Group A) or MUSC 117 Music of Africa, Asia & the Americas (GEP Group A or F) MUSC 308 Music History I MUSC 309 Music History II	
3. Ensemble: <i>(8 hours for performance specializations, 7 hours for music mgmt. and teaching cert.)</i> <i>Select from:</i> MUSC 319 University Chorale MUSC 330 Wind Ensemble MUSC 336 Chamber Guitar Ensemble	
4. Piano Proficiency: <i>(0 hours)</i> MUSA 415 Piano Proficiency Exam	
5. Private Instruction: <i>(12 hours)</i> MUSA 116-123 Private Instruction and/or MUSA 356-363 Private Instruction	
6. Recital Attendance: <i>(4 hours for performance specializations, 3.5 hours for music mgmt and teaching cert.)</i> MUSA 101 Student Recital Attendance	
7. Sophomore Evaluation: <i>(0 hours)</i> MUSA 287 Sophomore Evaluation	

(23 hours)

(8 hours)

MUSC 102 Theory I
 MUSC 103 Theory II
 MUSC 104 Aural Skills I
 MUSC 105 Aural Skills II

(6 hours)

MUSC 308 Music History I
 MUSC 309 Music History II

(3 hours)

Select from:
 MUSC 319 University Chorale
 MUSC 330 Wind Ensemble
 MUSC 336 Chamber Guitar Ensemble

(4 hours)

MUSA 116-123 Private Instruction
 and/or MUSA 356-363 Private Instruction

(2 hours)

MUSA 101 Student Recital Attendance

Summary of Requirements for the Teaching Certification Option in Music

1. Core Courses:

(47.5 hours)

Required for all music majors; listed above.

2. Recital Requirement:

(1 hour)

MUSA 490 Senior Recital (*Capstone*)

3. Other Required Courses for K-12 Teaching Certification:

(51.5 hours)

If you wish to complete a Maryland State approved program in teaching Music, you must:

- Complete the following additional courses in Music:
 - MUSA 108 Class Instruments I: Strings
 - MUSA 208 Class Instruments II: Woodwinds
 - MUSA 209 Class Instruments III: Brass
 - MUSA 311 Class Instruments IV: Percussion
 - MUSC 310 Basic Principles of Conducting I - Choral
 - MUSC 410 Basic Principles of Conducting II - Instrumental
- If your performing area is instrumental, you must complete 2 credit hours of MUSC 319 University Chorale
- If your performing area is guitar, you must complete 2 credit hours of MUSC 319 University Chorale and 2 credit hours of MUSC 330 Wind Ensemble
- If your performing area is vocal, you must complete MUSA 210 Diction
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in the Education: K-12 Programs.

Summary of Requirements for the Vocal Performance Concentration

1. Core Courses:

(49 hours)

Required for all music majors; listed above

2. Supplementary Requirements:

(5 hours)

MUSA 104, 105 Class Piano
 MUSA 116-123 Private Instruction
 MUSA 356-363 Private Instruction
 MUSC 315, 327, 331, 337, 339, 340 Ensembles

3. Other Requirements for Vocal Performance Majors:

(10 hours)

MUSC 210 Diction
 MUSC 310 Basic Principles of Conducting I - Choral
 MUSC 401 Form & Analysis
 MUSC 413 Vocal Pedagogy

4. Recital Requirements:

(2 hours)

MUSA 390 Junior Recital
 MUSA 490 Senior Recital (*Capstone*)

5. Minor in Foreign Languages & Literature:

(18 hours)

Summary of Requirements for Minor in Foreign Languages & Literature

The minor in French or Spanish consists of a minimum of 18 hours. Students minoring in a language who begin course work at the 300 level are required, through accelerated placement, to pay a fee of \$10.00 per credit hour for the 211, 212, and 250 courses. The 250 course counts toward GEP Group B. If you have no background in French or Spanish, you will need to begin with the 101-102 sequence and complete up to 24 hours in language.

Summary of Requirements for the Music Management Concentration

1. Core Courses:

(47.5 hours)

Required for all music majors; listed above.

2. Advanced Courses:

(16-19 hours)

MCOM 465 Music Promotion and Production

MUSC 390 Junior Recital

MUSC 358 The Business of Music and Arts Management

MUSC 492 Senior Project Paper (*Capstone*)

MUSC 495 Internship in Music Management (6 or 9 hours)

3. Required Courses in Other Departments (*Business Administration Minor*)

(21 hours)

ACCT 211 Financial Accounting

BUAD 100 Introduction to Business

or BLAW 291 Legal Environment of Business

FINA 303 Principles of Finance

or FINA 370 Corporate Finance

or FINA 476 Financial Management

MGMT 351 Management of Organizations

MGMT 356 Leadership and Human Behavior

or BMIS 320 Advanced Computer Applications in Business

MKTG 361 Principles of Marketing

ECON 200 Basic Economics (*GEP Group D*)

or ECON 201/211 Principles of Economics-Macro (*GEP Group D*)

Summary of Requirements for the Instrumental Performance Track

1. Core Courses:

(49 hours)

Required for all music majors; listed above.

2. Supplementary Requirements:

(5 hours)

MUSA 104, 105 Class Piano

MUSA 116-123 Private Instruction

MUSA 356-363 Private Instruction

MUSC 315, 327, 331, 337, 339, 340 Ensembles

3. Other Requirements:

(7 hours)

MUSC 310 Basic Principles of Conducting I - Choral

And select four hours from:

MUSA 213 Piano Pedagogy

MUSC 305 Orchestration

MUSC 358 Business of Music and Arts Management

MUSC 360 Special Topics in Music (*up to 4 credits*)

MUSC 401 Form and Analysis

MUSC 407 Counterpoint

MUSC 499 Individual Research in Music (*up to 4 credits*)

4. Recital Requirements:

(2 hours)

MUSA 390 Junior Recital

MUSA 490 Senior Recital (*Capstone*)

Nursing Preparation

Pre-professional program

For Pre-professional Program

Total Hours Required:

60

The following pre-professional courses are required for students interested in the University of Maryland, Baltimore School of Nursing and could also be taken, together with additional requirements, by students interested in attending other schools of nursing.

Summary of Requirements for Pre-professional Program in Nursing

Coordinator:

Wayne Yoder, Professor,
Department of Biology

- A liberal arts program is recommended as preparation for professional study in the field of Nursing, particularly if the student is interested in the additional career opportunities available to those earning a B.S. degree in Nursing.
- Prospective nurses interested in a B.S. degree from a school of nursing may take a two-year program at Frostburg. It is expected that each student enrolled in the pre-nursing program will earn and maintain a **minimum 3.2** cumulative grade point average.
- You cannot major or minor in Nursing Preparation.

1. Biology:

(16 hours)

BIOL 149 General Biology I
BIOL 201 Anatomy & Physiology I
BIOL 202 Anatomy & Physiology II
BIOL 304 Microbiology

2. Chemistry:

(4 or 8 hours*)

CHEM 101 General Chemistry I
CHEM 102 General Chemistry II (*The University of Maryland, Baltimore only requires CHEM 101).

3. English:

(6 hours)

ENGL 101 Freshman Composition
ENGL 338 Technical Writing
or ENGL 339 Scientific Writing

4. Humanities:

(9 hours)

Must include courses from at least three of the following disciplines:

English (literature courses), history, philosophy, foreign languages, music/art (history and/or appreciation), speech

5. Social Sciences

(12 hours)

PSYC 150 General Psychology
PSYC 210 Child Development
PSYC 212 Adolescence and Adulthood
SOCI 100 Introduction to Sociology

6. Other Required Courses:

(9 hours)

HEED 200 Nutrition (to be taken in Spring of 2nd year)
MATH 209 Elements of Probability and Statistics
MATH 102 College Algebra
or MATH 103 Trigonometry

Occupational Therapy Preparation

Pre-professional program

Coordinator:

David Morton, Professor,
Department of Biology

- All candidates are expected to earn and maintain **at least a 3.0** cumulative grade point average in order to be considered competitive for the program.
- Only the top 36 candidates, from all institutions offering prerequisite courses, will be considered for admission to the Occupational Therapy Program at Towson University. You can apply anytime you meet the application requirements.
- If you currently hold a baccalaureate degree, you don't have to meet Towson's GenEd requirements. See the current Towson University catalog for more details.
- You cannot major or minor in Occupational Therapy Preparation.

For Pre-professional Program

Total Hours:

58

The following courses are prerequisites for students interested in the Occupational Therapy Program at Towson University. Applicants are encouraged to visit the occupational therapy pages on Towson's web site for additional information about their program, including any changes made subsequent to this catalog. These courses may also be taken, together with additional requirements, by students interested in completing a professional occupational therapy program at other institutions.

- By December 21 of the year previous to application, candidates must complete Introductory Biology and two of the following: Freshman Composition, Introduction to Psychology, and Introduction to Sociology. The remaining prerequisite course must be completed by May 30 of the application year. Candidates must earn a B grade in all of these courses.
- By March 1 of application year, candidates must complete a minimum of 14 credits of college-level courses. Candidates must earn a GPA of 2.7 or better.
- By the screening deadline, candidates must complete at least 30 hours of human service activity. See application form for details.
- By August 31 of the year prior to the first term of the Occupation Therapy Program candidates must complete a minimum of 23 credits that meet Towson University's General Education requirements.

Summary of Requirements for Pre-professional Program in Occupational Therapy

1. Prerequisite Courses:

(13 hours)

BIOL 149 General Biology I
ENGL 101/111 Freshman Composition
PSYC 150/151 General Psychology
SOCI 100/111 Intro. to Sociology

2. Other courses that meet Towson's GenEd requirements:

Select one course per group. Take no more than three courses from the same discipline. Courses with asterisks are also FSU GEP courses.

- ART 110 Visual Imagery*
or THEA 107 Introduction to Theatrical Vision*
THEA 110 Introduction to Acting
COSC 330 Web Design and Development
DANC 342 Modern III
ENGL 334 or ENGL 335 Creative Writing Fiction/Poetry
- ENGL 261 American Literature: Colonial to Present
HIST 100/111 The Contemporary World in Historical Perspective*
HIST 103, 104 History of the United States
MUSC 110 Intro. to World Music*
DANC 110 Dance Appreciation*
- Select a course from a different discipline than the one chosen in section b. above*
ART 100/111 Art Appreciation*
ENGL 375 Romanticism
PHIL 101/111 Intro. to Philosophy*
FREN 101, 102 Basic Elements of French I, II
HIST 306 Medieval Europe
HIST 310 Ancient Greece and Rome
SPAN 101, 102 Basic Elements of Spanish I, II
- AAST 200 Introduction to African American Studies*
ENGL 231 African American Literature
FREN 211, 212 French Grammar, Composition & Conversation I, II
SPAN 211, 212 Spanish Grammar, Composition & Conversation I, II
WMST 201 Introduction to Women's Studies*

3. Other transferable program requirements:

(up to 20 hours)

BIOL 201, 202 Anatomy & Phys. I, II
MATH 209/219 Elem. Applied Prob. & Stat.
PSYC 210 and 212 Child, Adolescent & Adulthood
PSYC 417 Psychology of Abnormal Behavior

*FSU GEP courses

Pharmacy Preparation

Pre-professional program

Coordinator:

Mary Mumper, Associate Professor, Department of Chemistry

- The following 2-to-3 year pre-professional course pattern is suggested for students particularly interested in the University of Maryland, Baltimore School of Pharmacy. Students interested in attending other schools of pharmacy should consult their catalogs for specific entrance requirements.
- Each student enrolled in the pre-pharmacy program must earn and maintain **a minimum 3.00** cumulative grade point average.
- The Pharmacy College Admissions Test (PCAT) is also required and should be taken in the fall semester of the student's last year of study at FSU.
- For students who want to earn a baccalaureate degree at FSU before applying to a school of pharmacy, a major in chemistry or biology is appropriate.

For Pre-professional Program

Total Hours: 76

Summary of Requirements for Pre-professional Program in Pharmacy

1. Biology

(16 hours)

BIOL 149 General Biology I
BIOL 304 Microbiology
BIOL 201 Anatomy & Physiology I
BIOL 202 Anatomy & Physiology II

2. Chemistry

(21 hours)

CHEM 101 General Chemistry I
CHEM 102 General Chemistry II
CHEM 301 Organic Chemistry I
CHEM 302 Organic Chemistry II
CHEM 455 Biochemistry I

3. English

(6 hours)

ENGL 101/111 Freshman Composition
ENGL 310 /312 Advanced Composition
or ENGL 338 Technical Writing
or ENGL 339 Scientific Writing

4. Mathematics

(7 hours)

MATH 209/219 Elements of Applied Probability and Statistics
or MATH 380 Introduction to Probability and Statistics
and MATH 236 Calculus I

5. Physics

(8 hours)

PHYS 215 General Physics I
and PHYS 216 General Physics II
or PHYS 261 Principles of Physics I
and PHYS 262 Principles of Physics II

6. Humanities

(6 hours)

7. Social Sciences

(6 hours)

ECON 201 Principles of Economics
And one other Social Science elective

8. Humanities/Social Science Electives

(6 hours)

CMST 122 Introduction to Public Speaking
and one other Humanities/Social Science elective

Philosophy

Major

Minor

Professor:

Mappes

Associate Professors:Brill, Kroeger-Mappes,
Makang (Chair)

	For Major	For Minor
Hours Required in Philosophy:	30	18
Hours Required in Other Departments:	0	0
Total Hours Required:	30	18

Summary of Requirements for Major/Minor in Philosophy

Major	Minor
1. Introductory Level Courses: <i>(6 hours)</i> <i>Select two from:</i> PHIL 101 Introduction to Philosophy <i>(GEP Group B)</i> <i>or</i> PHIL 111 Honors: Introduction to Philosophy <i>(GEP Group B)</i> PHIL 102 Contemporary Ethical Problems <i>(GEP Group B)</i> PHIL 201 Ethics PHIL 205 Logic	<i>(6 hours)</i> <i>Select two from:</i> PHIL 101 Introduction to Philosophy <i>(GEP Group B)</i> <i>or</i> PHIL 111 Honors: Introduction to Philosophy <i>(GEP Group B)</i> PHIL 102 Contemporary Ethical Problems <i>(GEP Group B)</i> PHIL 201 Ethics PHIL 205 Logic
2. History of Philosophy: <i>(6 hours)</i> PHIL 202 History of Philosophy: Ancient & Medieval PHIL 203 History of Modern Philosophy	
3. Distribution within Department: <i>(18 hours)</i> <i>Select from courses at the 300 or 400 level,</i> <i>including at least one 400-level seminar course</i> <i>(capstone).</i>	<i>(12 hours)</i> <i>Select at least nine hours from courses at the 300 or 400</i> <i>level.</i>

Physical Therapy Preparation

Pre-professional program

Coordinator:

Wayne Yoder, Professor,
Department of Biology

- Professional schools **differ substantially** in their requirements for admission and it is the responsibility of the student to ensure the completion of the necessary pre-physical therapy courses for the professional schools of interest.
- You are expected to earn and maintain at least a 3.20 cumulative grade point average.
- Physical Therapy experience as volunteer or aide is required (100-200 hours) as is a current CPR certificate.
- You cannot major or minor in pre-physical therapy.
- Application requirements for the University of Maryland, Baltimore include:
 - Bachelor's degree (any major)
 - Successful completion (C or better) of the 52 specified credit hours or prerequisite course work
 - Submission of GRE scores.

The following pre-professional courses are required of students interested in the University of Maryland, Baltimore's Physical Therapy Program. Students interested in attending other professional schools should work closely with the coordinator of the Physical Therapy Preparation program to plan an appropriate program.

Summary of Requirements for Pre-professional Program in Physical Therapy

1. **Arts, History and Humanities**
(3 hours)
CMST 102 Introduction to Human Communication
2. **Biology**
(12 hours)
BIOL 149 General Biology I (GEP Group C)
BIOL 201 Anatomy and Physiology I
Any 300- or 400-level biology course with lab
3. **Chemistry**
(8 hours)
CHEM 101 General Chemistry I (GEP Group C)
CHEM 102 General Chemistry II
4. **English**
(3 hours)
ENGL 101 Freshman Composition (Core Skill 1)
5. **Mathematics**
(6 hours)
MATH 209 Elements of Applied Probability & Statistics (Core Skill 3)
or SOCI 310 Statistics for Social Science
MATH 220 Calculus for Applications I
or MATH 236 Calculus I (Core Skill 3)
or MATH 120 Precalculus (Core Skill 3)
6. **Physics**
(8 hours)
PHYS 215 General Physics I (GEP Group C)
PHYS 216 General Physics II
7. **Psychology**
(9 hours)
PSYC 150 General Psychology (GEP Group D)
PSYC 210 Child Development
PSYC 212 Adolescence & Adulthood
or PSYC 417 Psychology of Abnormal Behavior
8. **Electives**
(3 hours)
Choose one of the following:
ENES 102 Statics
ENES 221 Dynamics
PHEC 301 Applied Biomechanics
PHEC 303 Biomechanics for Exercise and Sport Science
PHEC 407 Motor Learning & Performance
(Consult with the Pre-physical therapy advisor concerning other appropriate electives.)

Physics

	For Major	For Minor	For Teaching Cert. Option
Hours Required in Physics:	39	21	39
Hours Required in Other Departments:	22	8	63.5-64.5
Total Hours Required:	61	29	102.5-103.5

Major

Minor

Tracks in:

- traditional physics
- engineering physics

Teaching Certification Option

Professor:Hoffman, Latta, Plitnik,
Tam**Associate Professors:**Deng-Luzader, Doyle,
Soysal (Chair)

- You may not use courses listed under the heading Physical Science to satisfy the requirements of a major or minor in Physics.
- FSU and the University of Maryland Baltimore County offer a BS/MS program in Applied Physics. (See the next page of this catalog for more details).
- For engineering programs offered by the Dept. of Physics and Engineering, see the Engineering section of this catalog.
- The Traditional Physics track is recommended if you plan to attend graduate school.

Summary of Requirements for Major/Minor in Physics

Major	Minor
1. Introductory Level Courses: (8 hours)	
PHYS 261 Principles of Physics I: Mechanics (GEP Group C)	PHYS 261 Principles of Physics I: Mechanics (GEP Group C)
PHYS 262 Principles of Physics II: Electricity & Magnetism	PHYS 262 Principles of Physics II: Electricity & Magnetism
2. Advanced Courses: (22 hours)	
PHYS 263 Principles of Phys. III: Sound/Light	PHYS 263 Principles of Phys. III: Sound & Light
PHYS 264 Principles of Physics IV: Thermodynamics & Modern Physics	PHYS 264 Principles of Physics IV: Thermodynamics & Modern Physics
PHYS 310 Classical Mechanics	PHYS 320 Experimental Physics
PHYS 312 Electricity & Magnetism	One additional 300-400 level physics or engineering course
PHYS 320 Experimental Physics	
PHYS 491 Seminar	
PHYS 492 Senior Research & Seminar (Capstone)	
3. Required Courses in Other Departments: (22 hours)	
One of the following: COSC 240 Computer Science I or ENEE 114 Programming Concepts for Engineers	(8 hours) MATH 236 Calculus I (Core Skill 3) MATH 237 Calculus II
All of the following: ENES 100 Intro. to Engineering Design MATH 236 Calculus I (Core Skill 3) MATH 237 Calculus II MATH 238 Calculus III MATH 432 Differential Equations	
4. Choice of Track: (9 hours)	
Majors must choose a track in: Traditional Physics or Engineering Physics (requirements listed below)	

Summary of Requirements for Traditional Physics Track

- Courses required for all majors:**
(51-52 hours)
Listed above.
- Advanced Courses in the Department:**
(9 hours)
PHYS 311 Thermodynamics
PHYS 417 Quantum Physics
One additional physics elective at the 300 level or above

Summary of Requirements for Engineering Physics Track

1. Courses required for all majors:

(51-52 hours)

Listed above.

2. Elective Hours in the Department: (9 hours)

With permission of the Department Chair, as many as 6 credits of mechanical engineering or electrical engineering at the 200 level or above may be applied.

Summary of Requirements for Teaching Certification Option in Physics

If you wish to complete a Maryland State approved program in teaching Physics, you must:

- Complete the BA/BS in Physics - Traditional Physics Track.
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: Secondary School Programs.

Applied Physics

Bachelor's/Master's Collaborative Program

Dual-degree Program

Coordinator:

Oguz Soysal, Chair
Department of Physics and Engineering

- Frostburg State University students may apply three FSU physics courses (nine credit hours) towards an undergraduate degree in Physics from FSU and towards a master's degree in Applied Physics from the University of Maryland, Baltimore County. The three courses which have UMBC equivalents are:
PHYS 312
PHYS 313
PHYS 417

- Since the Applied Physics program at UMBC normally requires 30 credit hours of graduate work, a student in the BS/MS program will be required to complete a minimum of only 141 hours to earn both the BS and MS degrees.

Hours Required at FSU	120
Hours Required at UMBC	21
Total Hours Required	141

Summary of Program Requirements at FSU:

1. Completion of all requirements for the physics major at Frostburg State University.
2. Completion of the following FSU courses as physics electives: PHYS 313 and PHYS 417.
3. Completion of all Frostburg State University general education and basic baccalaureate requirements.
4. Completion of a total of at least 120 semester hours at FSU.

Requirements for Formal Admission to the Program through UMBC:

1. An application submitted to the FSU Physics Department Chair at the beginning of the junior year. This will include an application form, undergraduate transcripts and three letters of recommendation.
2. A minimum cumulative grade point average of 3.0.
3. Formal application to the UMBC Graduate School for admission to the Applied Physics MS program by December of the senior year. Application procedures are described in the UMBC Graduate Catalog.

Political Science

Major

Minor

Professors:

J. Andorfer, Bowman,
Simpson

Associate Professors:

Hartlaub, S. Johnson, D.
Lewis, O'Rorke, Twing
(Chair)

Assistant Professor:

Straus

- Only courses in which you earn a grade of C or better will count towards satisfaction of major or minor requirements.
- The Department strongly encourages majors to consider the internship option.
- POSC 492 counts as elective credit toward POSC major; POSC 495 counts as general elective credit.
- The Department considers it essential that majors take POSC 250 Research Methods before enrolling in 300 and 400 level POSC courses.
- Upon the completion of 75 credit hours, all majors must enroll in POSC 490 Capstone Seminar.

	For Major	For Minor
Hours Required in Political Science:	37	21
Hours Required in Other Departments:	0	0
Total Hours Required:	37	21

Summary of Requirements for Major/Minor in Political Science

Major	Minor
1. Introductory Level Courses: <i>(6 hours)</i> POSC 110/112 Introduction to American Politics <i>(GEP Group D)</i> <i>and one of the following:</i> POSC 113/114 Introduction to World Politics <i>(GEP Group D) or</i> POSC 131 Introduction to Comparative Politics <i>(GEP Group D or F)</i>	
<i>(6 hours)</i> POSC 110/112 Intro. to American Politics <i>(GEP Group D)</i> <i>and one of the following:</i> POSC 113/114 Introduction to World Politics <i>(GEP Group D) or</i> POSC 131 Introduction to Comparative Politics <i>(GEP Group D or F)</i>	
2. Research Methods: <i>(3 hours)</i> POSC 250 Research Methods	
3. Capstone Seminar <i>(1 hour)</i> POSC 490 Capstone Seminar in Political Science	
4. Distribution within Department: <i>(15 hours)</i> <i>Select one course in each of the following five groups.*</i>	
GROUP I American Politics POSC 321 American State & Local Politics POSC 323 Public Administration POSC 324 Criminal Justice Systems in Action POSC 352 Interest Groups POSC 361 Public Opinion and Political Behavior POSC 362 Political Parties and Elections POSC 363 Media and Politics POSC 365 Women and Politics POSC 421 American Legislative Politics POSC 422 American Constitutional Law I POSC 423 American Constitutional Law II POSC 427 The American Presidency POSC 462 Personality and Politics	
GROUP II Comparative Politics POSC 330 Politics of Africa POSC 331 Politics of Latin America POSC 332 Politics of Middle East POSC 333 Politics of Europe POSC 431 Russian Politics POSC 435 Model Organization of American States	
GROUP III International Relations POSC 341 International Organization POSC 342 Foreign Policy of the United States POSC 441 Theory and Practice of International Relations POSC 442 National Security Policy POSC 443 Transnational Terrorism and Counter-Terrorism	
Group IV Public Administration and Policy POSC 355 Public Budgeting POSC 358 American Public Policy POSC 450 Environmental Public Policy POSC 455 Public Program Evaluation	

**Seminar courses may be applicable to the distribution requirements with the prior approval of the department chair.*

GROUP V Political Theory

POSC 370 Introduction to Political Thought

POSC 470 Seminar in Political Thought

POSC 471 American Political Thought

5. Free Elective Hours in Department:*(12 hours)**Any courses from the above subfields not already taken and/or:*

POSC 492 Internship Seminar (3 or 6 credits)

and/or POSC 488 Comparative Legal Systems

POSC 498 Readings in Political Science

*(15 hours)**Any courses from the above subfields not already taken and/or:*

POSC 492 Internship Seminar (3 or 6 credits)

and/or POSC 488 Comparative Legal Systems

POSC 498 Readings in Political Science

Psychology

Major

Minor

Certificate in Child and Family Psychology

Professors:Herzog, Peterson (Chair),
Santoro, Southerly**Associate Professors:**Bensley, Bradley, Edwards,
Redmond-Matz**Assistant Professors:**

Kennedy, Murtaugh

Instructor:

Flinn

- Majors may elect a pre-professional option, an internship option and/or a child and family certificate.
- Majors must earn a grade of C or better in ENGL 101, Advanced Composition, and MATH 209, Probability and Statistics to satisfy major requirements.
- Only psychology courses in which you earn a grade of C or better will count towards satisfaction of major and minor requirements, with the exception that you must pass PSYC 297 to satisfy major requirements.
- Psychology faculty also coordinate the Addictions Counseling Certificate and the Addictions Counseling Preparation program (see separate section of this catalog).

	For Major	For Minor
Hours Required in Psychology:	33-34	18-21
Hours Required in Other Departments:	16	0
Total Hours Required:	49-50	18-21

Summary of Requirements for Major/Minor in Psychology

Major	Minor
1. Introductory Course: <i>(3 hours)</i> PSYC 150 General Psychology <i>or</i> PSYC 151 Honors: General Psychology <i>(GEP Group D)</i>	
2. Research Methods: <i>(8 hours) (3 hours)</i> PSYC 300 Research Methods I PSYC 301 Research Methods II <i>substitution</i>	
3. Distribution within Department: <i>(12-13 hours)</i> <i>Select one course in each of four groups.</i> GROUP I Developmental PSYC 210 Child Development PSYC 212 Adolescence and Adulthood GROUP II Physiological Basis of Behavior PSYC 306 Sensation and Perception PSYC 386 Drugs and Human Behavior PSYC 420 Physiological Psychology PSYC 430 Health Psychology GROUP III Learning PSYC 307 Experimental Analysis of Behavior PSYC 409 Human Learning and Cognition PSYC 485 Behavioral Approaches to Human Problems GROUP IV Personality/Social PSYC 414 Theories of Personality PSYC 417 Psychology of Abnormal Behavior PSYC 418 Social Psychology PSYC 489 Child and Adolescent Disorders	
4. Elective Hours in Department: <i>(6 hours)</i> <i>2 additional courses, at least one of which must be at the 300 or 400 level</i>	
	<i>(0 hours)</i> <i>(12-15 hours)</i> <i>4 additional courses, at least two of which must be at the 300 or 400 level OR 5 additional courses, at least two of which must be at the 300 or 400 level if a course outside of psychology has been substituted for the Research Methods requirement.</i>

5. Introduction to the Profession of Psychology:*(1 hour)*

PSYC 297 Introduction to the Profession of Psychology

6. Senior Integrative Experience:*(3 hours minimum)**Select one of the following:*

PSYC 497 Senior Seminar (Capstone)

PSYC 481 History and Systems of Psychology (Capstone)

Pre-professional Option

Internship Option

7. Required Courses in Other Departments*(16 hours)*

CMST 102/112* Introduction to Human Communication

or CMST 122 Introduction to Public SpeakingCOSC 100/110* Introduction to Computer Science (*Tech. Fluency*)MATH 209/219* Elements of Applied Probability and Statistics (*Core Skill 3*)BIOL 109 Human Biology and the Environment *or* BIOL 149 General Biology I (*GEP Group C*)ENGL 308 Social Sciences Advanced Composition *or* ENGL 310/312* Advanced Composition*or* ENGL 338 Technical Writing (*Core Skill 2*)

Requirements for Pre-professional Option

1. Complete Psychology major - described above.

You must have a minimum 3.0 grade point average in the major.

2. Required Course Work in Psychology:PSYC 420 Physiological Psychology (*may be used to satisfy Group requirements for the major above.*)*The following may be used to satisfy elective requirements for the major above:*

PSYC 470 Advanced Experimental Psychology

PSYC 481 History and Systems of Psychology

PSYC 499 Psychology Projects (*with senior thesis and oral presentation - Capstone*).**3. Attendance at a Pre-professional Orientation Meeting.**

Requirements for Internship Option

1. Complete the Psychology major - described above.

You must have a minimum 3.0 grade point average in the major; or if your psychology GPA is between 2.75 and 3.0, you must pass a comprehensive examination covering all areas of psychology.

2. Required Background in Psychology:

Pass a departmental ethics examination and complete specific courses required for different types of internships. (See the department guide.)

3. Internship Orientation Meetings:

Attend 2 internship orientation meetings: 1 at least 2 semesters before interning, and 1 in the semester preceding the internship.

4. Complete a resumé and an internship proposal.**5. Complete PSYC 495 Internship in Psychology with a grade of P and PSYC 492 Internship Seminar with a C or better (Capstone).**

* Honors equivalent

Requirements for Child and Family Psychology Certificate

- 1. **Complete Psychology major** - described above.
- 2. **Required Course Work in Psychology.** Please be aware that many of the required courses have prerequisites. Additionally, PSYC 489 must be taken BEFORE PSYC 492/495 if you select the internship under "D" as your 400 level learning experience (12 hours minimum):
(May be used to satisfy group and elective requirements for the major above)
 - A) PSYC 150/151 General Psychology
 - B) PSYC 210 Child Development or PSYC 212 Adolescence and Adulthood
 - C) PSYC 489 Child and Adolescent Disorders
 - D) *One of the following 400 level learning experiences:*
 - PSYC 404 Psychology of the Exceptional Child
 - PSYC 440 Survey of Family Psychology and Intervention Issues
 - PSYC 490 Special Topics in Psychology involving children and/or adolescents
 - PSYC 492/495 Internship in Psychology involving children and/or adolescents
 - PSYC 498 Readings in Psychology involving children and/or adolescents
 - PSYC 499 Psychology Projects involving research concerning children and/or adolescents
- 3. **Attendance at a Child and Family Psychology Certificate Orientation Meeting.**
Attend at least one child and family orientation meeting in a semester prior to taking PSYC 489 Child and Adolescent Disorders.
- 4. **Recommended Additional Courses:**
 - A) PSYC 303 Psychology of Marriage
 - B) PSYC 485 Behavioral Approaches to Human Problems
- 5. **A certificate of completion of the Child and Family Psychology program will be awarded to Psychology majors who complete the above requirements.**

For Certificate

Total Hours Required: 12

The certificate in public administration is open to:

- degree-seeking students in any major who would like to explore the public sector as a possible area of future employment, and
- non-degree seeking members of the community who would like to obtain employment in the public sector or who already work in public administration and desire to upgrade their skills.

Summary of Requirements for Certificate in Public Administration

- POSC 110/112 Introduction to American Politics
- POSC 323 Public Administration
- POSC 355 Public Budgeting
- POSC 455 Public Program Evaluation

Public Administration

Certificate

Coordinator:
John O'Rorke, Associate
Professor, Department of
Political Science

Public Relations

Minor

Coordinator:

A. Franklin Parks,
Professor, Department of
English

Participating Faculty:

Professors:

A.F. Parks (English),
Routhier (Communication
Studies)

Assistant Professor:

Lombardi (Mass
Communication)

Assistant Professors:

Cheon (Marketing and
Finance), Ewers (English),
Hodges (Visual Arts)

- You cannot major in Public Relations.

Total Hours Required:

For Minor

24

Summary of Requirements for Minor in Public Relations

Minor

1. Courses in Communication Studies:

(6 hours)

CMST 300 Interpersonal Communication
or CMST 322 Presentational Communication
CMST 312 Language Behavior and Communication

2. Courses in English:

(6 hours)

ENGL 336 Journalistic Writing
ENGL 436 Advanced News and Feature Writing

3. Courses in Other Departments:

(12 hours)

ART 207 Graphic Design (*Tech. Fluency*)
ART 235 Photography
MCOM 212 Video Production Industry
MKTG 361 Principles of Marketing

Recommended Additional Courses:

The following courses are recommended but not required for the minor in Public Relations. These courses provide valuable background for the course work in the minor:

ART 104	Two-dimensional Design
BUAD 100	Introduction to Business
CMST 122	Introduction to Public Speaking
ECON 200	Basic Economics (<i>GEP Group D</i>)

Social Work

Major

Professor:

Connelly

Associate Professors:

Powell, Russell (Chair)

Assistant Professors:

Hartsock

- Since the Social Work curriculum is highly sequential in design, students who begin their course of study after the first semester of their sophomore year will often need more than four years to complete the program

For Major

Hours Required in Social Work

48

Hours Required in Other Departments

19

Total Hours

67

The major in Social Work is designed to prepare you for generalist practice. It is built upon a liberal arts foundation and provides you with the knowledge, values, and skills needed to help individuals, families, groups, organizations and communities.

Content in the major forms the foundation for professional practice. The curriculum covers values and ethics, diversity, social and economic justice, populations-at-risk, human behavior and the social environment, social welfare policy and services, social work practice, research and field practicum. All students are required to complete a full-time internship which constitutes the last semester of the senior year.

Graduates with a major in Social Work may begin professional practice in a variety of fields including mental health, aging, family and children's services, health care, addictions, juvenile and adult corrections, developmental disabilities, and community planning and development.

The Social Work program is accredited by the Council on Social Work Education (CSWE). Graduates of the program are eligible to apply to take state social work licensure exams at the baccalaureate level and to compete for employment positions where such a license is required. In addition, qualified graduates may also apply for advanced standing in graduate schools of social work which allows for completion of a Master's degree in less time than it would otherwise take. Contact the Department Chair for further information.

- Only courses in which a grade of C or better is earned will count toward satisfaction of major requirements.
- Academic credit is not given for life or work experiences.
- The Social Work program has a competitive admissions process. Department faculty reserve the right to select those candidates who demonstrate the greatest potential for developing as professional social workers.
- Students with a degree in social work are eligible to earn Maryland State certification as addiction counselors. Several social work courses count towards the requirements. See the Addictions Counselor Preparation section of this catalog.

Requirements for Admission to the Social Work Program

Applicants must meet the following admissions requirements in order to be accepted into and complete the Social Work program.

Enrollment in the program is controlled by the number of slots available in the program at the time of admission. Admissions decisions are based on a competitive process. Application deadlines for all students, including transfer students, are established each semester by the program and publicly announced by the department.

Admission Requirements

1. Completion of at least 30 credit hours
2. Cumulative GPA of at least 2.3 (or recommendation of faculty member)
3. Completion of a declaration of major form
4. Completion of an application to the Social Work program which includes a self statement and three letters of reference (Application packets are available from the department.)
5. Completion of SOWK 370 with a grade of C or better.
6. Approval of the Social Work Department Admissions Committee (which may require a personal interview with the Social Work faculty). The Admissions Committee may award special provisional admission.

Graduation Requirements

1. Completion of SOWK 492 (Capstone) with a grade of C or better and SOWK 495 with a grade of P
2. Cumulative GPA of at least 2.3 both overall and in courses required for the major.
3. Meet program performance standards set by the department as measured by a standardized exit exam. Students who do not successfully meet these standards will be given additional opportunities to repeat the exam but only at their own expense.
4. Completion of an exit interview with the Social Work faculty

Dismissal Policy

The following constitute grounds for dismissal from the Social Work program:

1. Inability to meet the academic requirements of the program
2. Failure to address and correct deficiencies in competencies cited at last assessment review
3. Violations of the National Association of Social Workers' Code of Ethics (Copies of the Code are available from the Department of Social Work.)
4. Violations of FSU's Student Code of Conduct as outlined in the *Pathfinder* which would result in a referral to the University's Judicial System.

A grievance procedure for protecting students' rights to due process is outlined in the Social Work Student Handbook available from the Department of Social Work.

Summary of Requirements for Major in Social Work

Major

1. Social Work Courses:

(48 hours)

SOWK 305 Racial and Cultural Minorities (GEP Group F)
 SOWK 310 Statistics for Social Science
 SOWK 311 Basic Research Methods
 SOWK 370 Introduction to Social Welfare and Social Work
 SOWK 371 Social Policy
 SOWK 375 Human Behavior and the Social Environment I
 SOWK 377 Human Behavior and the Social Environment II
 SOWK 379 Foundations for Generalist Practice
 SOWK 470 Generalist Practice with Individuals and Families
 SOWK 471 Generalist Practice with Communities and Organizations
 SOWK 473 Generalist Practice with Groups
 SOWK 492 Social Work Seminar (Capstone)
 SOWK 495 Internship in Social Work

*A seminar course (491) may be applicable to the Distribution Requirements with the prior approval of the department; only 1 seminar may be used in this manner.

2. Courses in Other Departments:*(19 hours)*SOCI 100 or 111 Introduction to Sociology (*GEP Group D*)

SOCI 200 Social Problems

COSC 100 Introduction to Computer Science (*Tech. Fluency*)PSYC 150 or 151 General Psychology (*GEP Group D*)POSC 110 or 112 Introduction to American Politics (*GEP Group D*)BIOL 109 Human Biology and the Environment (*GEP Group C*)**Sociology**

Major

Minor

Tracks in:

- general sociology
- applied social research

Option in data analysis

Professor:

Connelly

Associate Professors:Moore (Chair), Olson,
Russell**Assistant Professors:**

McMullen, Rogers Thomas

- Sociology majors may choose either the General Sociology Track or the Applied Social Research Track.
- Sociology majors may elect an option in Data Analysis
- For departmental courses above the 100 level in the Sociology major, only courses in which a grade of C or better is earned will count toward satisfaction of major requirements.
- The Sociology major may be completed on the Frostburg campus or at the University System of Maryland at Hagerstown.
- The department also offers a minor in cultural anthropology and collaborates in offering the ethnobotany major.

	For Major		For Minor
	General Track	Applied Social Research	
Hours Required in Sociology:	36	33	18
Hours Required in Other Departments:	3	6	0
Total Hours Required:	39	39	18

Summary of Requirements for Major/Minor in Sociology

Major	Minor
1. Basic Courses: <i>(6 hours)</i> SOCI 100/111 Intro. to Sociology (<i>GEP Group D</i>) SOCI 200 Social Problems	<i>(6 hours)</i> SOCI 100/111 Intro. to Sociology (<i>GEP Group D</i>) SOCI 200 Social Problems or SOCI 203 Sociology of Deviant Behavior
2. Methods and Theory <i>(15 hours)</i> General Sociology Track: SOCI 310 Statistics for Social Science SOCI 311 Basic Research Methods SOCI 450 Classical Sociological Theory SOCI 451 Contemporary Sociological Theory SOCI 491 Seminar in Sociology (<i>Capstone</i>) or SOCI 492 Internship Seminar/Research Paper (<i>Capstone</i>) Applied Social Research Track: SOCI 310 Statistics for Social Science SOCI 311 Basic Research Methods SOCI 312 Applied Social Research SOCI 450 Classical Sociological Theory or SOCI 451 Contemporary Sociological Theory SOCI 492 Internship Seminar/Research Paper (<i>Capstone</i>)	<i>(0 hours)</i>
3. Distribution within Department: General Sociology Track: <i>(15 hours)</i> At least nine hours must be at the 300 or 400 level Applied Social Research Track: <i>(6 hours)</i> At least three hours must be at the 300 or 400 level	<i>(12 hours)</i> At least six hours must be at the 300 or 400 level
4. Internship Requirement: General Sociology Track: <i>optional</i> Applied Social Research Track: <i>(6 hours)</i> SOCI 495 Internship	<i>(0 hours)</i>

5. Required Courses in Other Departments:**General Sociology Track:***(3 hours)*COSC 100 Intro. to Computer Science *(Tech. Fluency)**(0 hours)***Applied Social Research Track:***(6 hours)*COSC 100 Intro. to Computer Science *(Tech. Fluency)*

COSC 220 Intro to Software Applications

Summary of Requirements for Option in Data Analysis

1. Required Courses in Sociology:*(9 hours)*

SOCI 312 Applied Social Research

SOCI 325 Community Analysis

SOCI 499 Individual Problems in Sociology

2. Required Courses in Other Departments:*(9 hours)*COSC 100 Introduction to Computer Science *(Tech. Fluency)*ENGL 338 Technical Writing *(Core Skill 2)*MATH 209 Elements of Applied Probability and Statistics *(Core Skill 3)*

Theatre

Major

Minor

Tracks in:

- acting
- directing
- production/design
- general theatre

Professor:

McCulloch

Associate Professor:Yost-Rushton (Co-Chair,
Division of Performing Arts)**Assistant Professor:**

Mattis, E. Warner

- You must earn a 2.7 cumulative GPA in all theatre courses to meet graduation requirements.
- Legal residents of Delaware may complete a theatre degree (acting or directing track) at Maryland resident tuition rates through SREB Academic Common Market.

	For major	For minor
Hours Required in Theatre	48	24
Hours Required in Other Disciplines:	3	0
Total Hours Required:	51	24

Summary of Requirements for Major/Minor In Theatre

Major	Minor
1. Core Courses in Theatre: <i>(30 hours)</i> THEA 104 Theatre (3 hours; one hour <i>must</i> be in a production area) THEA 106 Introduction to Theatre (GEP Group A) THEA 107 Introduction to Theatrical Vision (GEP Group A) THEA 110 Introduction to Acting THEA 206 Modern American Drama (<i>also offered as ENGL 206</i>) THEA 308 Directing THEA 425 History of Theatre I THEA 426 History of Theatre II THEA 427 History of Theatre III (<i>General Theatre Capstone</i>) THEA 431 World Drama I (<i>also offered as ENGL 431</i>)	
2. Theatre Tracks: <i>(18 hours)</i> <i>You must complete 18 hours in one of the following tracks:</i>	
a. Acting THEA 208 Acting: Basic Principles and Application THEA 210 Voice and Movement THEA 310 Voice and Speech THEA 318 Acting: Analysis and Performance THEA 319 Acting in Shakespeare THEA 420 Marketing Yourself as an Actor (<i>Acting Capstone</i>)	
b. Directing THEA 204 Stagecraft THEA 325 Advanced Directing THEA 450 Experiences In Scripting and Staging (<i>Directing Capstone</i>) <i>and select three from:</i> THEA 305 Scene Design THEA 306 Stage Lighting THEA 307 Costume Design THEA 318 Acting: Analysis and Performance THEA 350 Playwrighting THEA 466 Projects in Directing (<i>departmental permission required; a second THEA 466 possible with departmental permission</i>)	
c. Production/Design CMST 102 Intro to Human Communication THEA 204 Stagecraft THEA 305 Scene Design THEA 306 Stage Lighting THEA 307 Costume Design <i>Choose one of the following:</i> THEA 400 Theatre Production (<i>Production Capstone</i>) THEA 465 Projects in Theatrical Design (<i>Production Capstone</i>)	
<i>(15 hours)</i> THEA 106 Introduction to Theatre (GEP LAC Group A) THEA 107 Intro. to Theatrical Vision (GEP LAC Group A) THEA 110 Introduction to Acting THEA 206 Modern American Drama THEA 308 Directing	

d. General Theatre

Fifteen hours of electives in Theatre; nine must be at 300-level or higher.

Plus one of the following:

ENGL 290 Topics in Language and Literature

ENGL 340 Shakespeare

3. Additional Theatre Electives:

(0 hours)

(9 hours)

You must select three additional courses from any Theatre courses not already used to fulfill a Theatre minor requirement.

4. Required Courses in Other Disciplines:

(3 hours)

(0 hours)

COSC 100 Introduction to Computer Science

(Tech. Fluency)

Urban and Regional Planning

	For Major
Hours Required in Geography:	32-44
Hours Required in Other Departments:	27-39
Total Hours Required:	71

Summary of Requirements for Major in Urban and Regional Planning

Major

Major

Coordinator:

Henry Bullamore, AICP,
Professor, Department of
Geography

Participating Faculty**Professors:**

Caupp (Geography), Dalton
(Economics), Kauffman
(Recreation & Parks
Management), Neral
(Economics), Precht
(Geography), Stair
(Economics)

Associate Professors:

Hartlaub (Political Science),
Kessler (Geography), Moore
(Sociology), O'Rourke
(Political Science), Powell
(Social Work), G. White
(Geography), Saku
(Geography)

- This is an interdisciplinary program.
- See the Department of Geography for advising.
- You may not minor in Urban and Regional Planning.

1. Introductory Level Courses:

(25 hours)

CMST 102 Introduction to Human Communication

or CMST 122 Introduction to Public Speaking

ECON 202 Principles of Economics (Micro)

GEOG 103 Physical Geography (*GEP Group C*)

GEOG 104 Human Geography (*GEP Group D or F*)

GEOG 275 Fundamentals of Geographic Data Handling (*Tech. Fluency*)

MATH 209 Elements of Applied Probability and Statistics (*Core Skill 3*)

POSC 110 Introduction to American Politics (*GEP Group D*)

SOCI 100 Introduction to Sociology (*GEP Group D*)

2. Professional Core Courses:

(34 hours)

ECON 404 Public Sector Economics

ENGL 338 Technical Writing *or* ENGL 308 Social Sciences Advanced Composition

or ENGL 310 General Advanced Composition (*Core Skill 2*)

GEOG 310 Fundamentals of Cartography

GEOG 317 Principles of Geographic Information Science

GEOG 324 Urban Geography: Internal City Patterns

GEOG 325 Urban Geography: Metropolitan Systems

GEOG 380, SOCI 311 *or* POSC 311 Research Methods

GEOG 421 Regional Planning

GEOG 450 Urban Planning

GEOG 485 Senior Project (*Capstone*)

POSC 323 Public Administration

SOCI 328 Sociology of Urban Life

3. Electives:*

(6 hours from courses listed below or courses for another focus in 4.)

ECON 408 Urban and Regional Economics

ECON 410 Resource and Environmental Economics

ENES 100 Introduction to Engineering Design

GEOG 406 Management and Conservation of Natural Resources

- Frostburg State University is a member of the Association of Collegiate Schools of Planning.
- Completion of the major requirements leads to the professional degree of Bachelor of Science in Urban and Regional Planning. In addition to the requirements listed, degree candidates must meet all requirements listed in the current FSU Undergraduate Catalog for the Bachelor of Science.

GEOG 410 Locational Analysis
 GEOG 425 Geography of Transportation
 GEOG 471 Engineering for Land Development
 POSC 358 American Public Policy
 POSC 456 Urban Politics and Policies
 RECR 201 Introduction to Recreation and Parks
 RECR 342 Park and Facility Design
 RECR 443 Current Issues & Legal Liability in Recreations and Parks
 SOCI 200 Social Problems
 SOCI 305 Racial and Cultural Minorities (*GEP Group F*)
 SOCI 322 Demography
 SOWK 371 Social Policy

4. Advanced Planning Focus:*
(6 hours, select one focus)

Community Planning

SOCI 326 Sociology of Rural Life *or* SOWK 370 Introduction to Social Welfare
 SOCI 325 Community Analysis

Tourism Development

GEOG 454 Geography of Tourism
 GEOG 455 Tourism Planning

Mapping Science

Select two from:

GEOG 412 Geographic Visualization
 GEOG 413 Remote Sensing—Aerial Photo Interpretation
 GEOG 414 Digital Image Processing and Analysis
 GEOG 417 Geospatial Analysis

Environmental Planning

GEOG 472 Environmental Planning
 GEOG 473 Environmental Law *or* GEOG 460 Natural Hazards in the Physical Environment

** Completion of Introductory Level and Professional Core courses will fulfill prerequisites for most of these courses. Additional prerequisites may apply for POSC 456, SOWK 371, and GEOG 471.*

Wildlife & Fisheries

Major

See related programs:

- biology
 - pre-health option
 - biotechnology
 - environmental science
- environmental analysis & planning
- ethnobotany
- forestry
- interpretive biology & natural history

Coordinator:

Frank Ammer, Assistant Professor, Department of Biology

Professors:

Harman, Morton, Raesly, Yoder

Associate Professors:

Li, Pegg, Seddon (Chair), Serfass

Assistant Professors:

Ammer, Fritz, Ghioca

- A Wildlife/Fisheries major must complete courses listed from Sections 1 and 2, and choose courses from either Section 3 or Section 4 (or both).
- There is no minor in Wildlife/Fisheries.
- Students intending to further their education in graduate school are also encouraged to take one semester of Organic Chemistry.

	For Major
Hours Required in Biology:	44-60
Hours Required in Other Departments:	30-39
Total Hours Required:	83-91

Students completing the program as listed meet all educational requirements for their certification by The Wildlife Society or American Fisheries Society (depending upon the option chosen) and will meet educational requirements for scientific research positions in Wildlife Biology or Fisheries Biology for federal agencies.

Summary of Requirements for Major in Wildlife & Fisheries

Major

1. Common Courses in Biology:

(34 hours)

BIOL 149 General Biology I (*GEP Group C*)
 BIOL 150 General Biology II
 BIOL 200 Scientific Investigation and Communication
 BIOL 302 Animal Physiology
 BIOL 327 Comparative Anatomy
 BIOL 340 General Ecology
 BIOL 350 Genetics
 BIOL 414 Quantitative Analysis of Vertebrate Populations
 BIOL 425 Forest Science
 BIOL 492 Wildlife-Fisheries Seminar (*Capstone*)

2. Required Courses in Other Departments:

(30-31 hours)

CHEM 101, 102 General Chemistry I and II (*CHEM 101 - GEP Group C*)
 CMST 102 Introduction to Human Communication
 ENGL 339 Scientific Writing (*Core Skill 2*)
 or ENGL 338 Technical Writing (*Core Skill 2*)
 GEOG 103 Physical Geography (*GEP Group C*)
 GEOG 472 Environmental Planning
 GEOG 473 Environmental Law
 MATH 209 Elements of Applied Probability and Statistics (*Core Skill 3*)
 MATH 220 Calculus for Applications I
 or MATH 236 Calculus I (*Core Skill 3*)

3. Additional Courses for Wildlife Option:

(26-27 hours)

BIOL 230 Wildlife Techniques
 BIOL 303 Plant Physiology
 BIOL 305 Dendrology
 BIOL 314 Plant Taxonomy
 BIOL 421 Sample Design and Analysis of Plant Communities
 BIOL 450 Ecology & Management of Wildlife Populations
plus two courses from:
 BIOL 406 Ornithology
 BIOL 422 Herpetology
 BIOL 423 Mammalogy

4. Additional courses for Fisheries Option:

(18 hours)

BIOL 417 Ichthyology
 BIOL 420 Fish Management and Culture
 BIOL 430 Introductory Limnology
 CHEM 420 Environmental Chemical Analysis
 GEOG 430 Surface Water Hydrology

Women's Studies

Minor

Total Hours Required:

Summary of Requirements for Minor in Women's Studies

Minor

Coordinators:

Linda G. McCulloch, Professor,
Department of Theatre
Randall Rhodes, Associate
Professor, Department of
Visual Arts

Participating Faculty:

Professors:

McCulloch (Theatre),
Lutz (English), Santoro
(Psychology)

Associate Professors:

Boniece (History), Kroeger-
Mappes (Philosophy),
Redmond-Matz (Psychology),
Rhodes (Visual Arts), Sanchez
(Foreign Languages)

Assistant Professors:

Branum (English), Mattis
(Theatre)

- Women's Studies is a multicultural and multidisciplinary minor.
- You cannot major in Women's Studies.

1. Required Course:

(3 hours)

WMST 201 Introduction to Women's Studies (GEP Group F)

2. Elective Courses:

(15 hours)

Select five from among the following:

- ART 370 Women/Gender and the Visual Arts
- THEA 428 Women Through Theatre
- ENGL 290 Topics in Language & Literature (*when content is appropriate*)
- ENGL 450 Women and Literature
- HIST 436 Women's Issues in World History (GEP Group F)
- MDFL 301 Latin American Women's Issues
- MUSC 250 Women in Music (GEP Group F)
- PHIL 409 Philosophy and Women (GEP Group F)
- POSC 365 Women and Politics
- PSYC 220 Psychology of Women (GEP Group F)
- PSYC 270 Psychological Perspectives of Human Sexuality
- SOCI 334 Gender and Social Life
- SOCI 364 Marriage and Family Relationships
- SOCI 366 Social Inequality
- SOCI 466 Women, Health, and Healing
- WMST 491 Seminar in Women's Studies
- WMST 494 Practicum in Women's Studies (*a maximum of 3 credits may be applied to the minor*)
- WMST 499 Independent Study

Inter-College Programs

Inter-College Programs offered at FSU

Health Science Administration
Honors Program
Information Technology Management
International Area Studies
International Studies
Leadership Studies
Liberal Studies
Social Science

Inter-College Programs include those interdisciplinary programs that are collaborative ventures among the faculty of more than one college. These programs usually have a steering committee made up of faculty from all participating colleges and departments that recommends program requirements. Members also serve as academic advisors for students. Inter-College programs are housed in the department of the coordinator's primary appointment.

If you like to consider various points of view and want to develop a broad range of skills for employment flexibility, check out the inter-college programs as well as the other interdisciplinary programs offered within the colleges.

Health Science Administration

Collaborative Program

Major

Coordinator:

Shakil M. Rahman,
Professor, Department of
Management

- If you complete the major in health science administration, you will earn the Bachelor of Technical and Professional Studies (BTPS) degree.
- Since health science administration is an interdisciplinary program, grades in all program courses completed at FSU count in the major grade point average.
- A three-credit field experience is required.

	For Major
Hours Required at Allegany College of Maryland	65-70
Hours Required at Frostburg State University	58-70
Total Hours Required	127-140

The Bachelor of Technical and Professional Studies degree in health science administration is a collaborative program between Frostburg State University and Allegany College of Maryland designed to provide advanced career opportunities for students who hold an Associate of Applied Science degree in a health professions area (currently respiratory therapist, occupational therapy assistant, physical therapy assistant, radiologic technology, dental hygiene, medical laboratory technology, nursing, and therapeutic massage). If you hold a similar degree in another program, you may be considered for admission based on an articulation agreement between FSU and the other undergraduate institution.

The program is designed to build on the scientific and clinical knowledge and experience gained in the associate degree program and through clinical experience in the field. You will increase your knowledge of core issues in health care and develop supervisory, management, and administrative skills required to move into a management position in health care administration. The program does not offer professional certification or licensure. If you are interested in continuing your education in your specialized licensure area, you should enroll in one of the baccalaureate programs offered by another University System of Maryland institution (see pre-professional program listings).

Degree candidates must meet the transfer admission requirements of Frostburg State University, and have successfully completed one of the Allegany College of Maryland health programs referenced. Course work for the baccalaureate degree may be completed on a full or part time basis. All core courses are scheduled in the evening, on a rotating basis, to meet the needs of working adults. You will receive a pre-planned course schedule, and will need to complete the courses when scheduled in order to complete the degree program in a reasonable period of time.

Summary of Requirements for a Major in Health Science Administration

1. **An Associate of Applied Science degree** in a health profession field from Allegany College of Maryland. A maximum of 70 credits will transfer from all community colleges you have attended.

2. General Education Requirements:

You must complete a minimum of 40 credits in general education as part of the baccalaureate program. The particular general education courses that will be required in addition to those completed for the A.A.S. degree depend on which health professions program you have completed.

The following courses, required to meet general education requirements at FSU, or as prerequisites for advanced course work at FSU, are recommended as selections for general education and general electives at Allegany College if they are not already required in the A.A.S. program:

Social Science:	Introduction to Psychology <i>and</i> Introduction to Sociology
Humanities:	Introduction to Philosophy <i>or</i> Contemporary Ethical Problems
General Elective:	Introduction to Computer Science

In addition, all students will complete an **Advanced Writing** course at FSU (see listing of options in the section on the Academic Program).

3. Program Core Courses:

(18 hours)

SOCI 367 Sociology of Medicine
 PHIL 313 Biomedical Ethics
 SOWK 375 Human Behavior and the Social Environment I
 COSC 220 Introduction to Software Applications
 MGMT 356 Leadership and Human Behavior
 _____ (Legal Issues in Health — transfer course, to be specified)

4. Administration Courses:

(30 hours)

ACCT 211 Financial Accounting
 COSC 100 Introduction to Computer Science (*Tech. Fluency*)
 ECON 200 Basic Economics
 FINA 303 Principles of Finance
 MATH 209/219 Elements of Applied Probability and Statistics (*Core Skill 3*)
 MGMT 351 Management of Organizations
 MGMT 357 Human Resource Management
 MGMT 359 Quality Management
 MGMT 494 Field Experience in Management
 MKTG 361 Principles of Marketing

5. Program Elective Course:

(3 hours)

Select one course from among:

MGMT 355 Operations Management
 MGMT 405 Business Ethics and Social Responsibility
 PSYC 430 Health Psychology
 SOCI 468 Sociology of Later Life

Honors Program

Hours Required in English:	3
Hours Required in variants of the GEP program:	15-17
Hours Required in Seminars/Thesis	6
Total Hours Required:	24-26

Director:

Maureen Connelly,
 Professor, Departments of
 Sociology and Social Work

- Students who have demonstrated a high degree of academic skill, creative talent, and motivation have the opportunity to participate in the University's Honors Program.
- Interested students who think they may qualify for the Honors Program should contact the Director at 301/687-4998.

The Honors Program offers a variety of courses specially designed for Honors students. These courses feature content and instructional methods that are challenging, provide a more active role for the student in the learning process, and emphasize understanding more than factual information, and quality of work rather than quantity. These courses seek to magnify problem-solving abilities, effective communications, an awareness of multiple perspectives, and a capacity for independent learning.

Many of the Honors courses are variants of courses included in the University's General Education Program. These variant courses are primarily intended to be taken during a student's first and second years. For juniors and seniors participating in the program, the Honors Seminars and Thesis provide unique environments and opportunities for learning.

In addition to the academic courses, the Honors Program offers a host of co-curricular activities, including the opportunity to reside in Honors/International Housing in Cambridge and Westminster Halls.

Ultimately the program seeks to foster within students dignity, self-esteem, and a knowledge of their own potential as human beings.

Admission Requirements

Incoming first semester students are invited to join the Honors Program at FSU if they have a high school GPA of 3.5 **and** a combined SAT score of at least 1750 (or an ACT score of at least 26).

Students who do not meet both of these requirements may apply for admission to the Honors Program based on the strength of one of these requirements, either an excellent GPA or an excellent SAT/ACT score. Normally, students will not be admitted without at least a 3.25 GPA or a minimum of 1500 on the combined SAT (23 on the ACT). Exceptions can be made on a case by case basis by the Honors Program.

Students who have completed at least one semester of course work at Frostburg State University or at another institution may apply to the Honors Program if they have a GPA of 3.5 or above.

Students demonstrating considerable creative ability, as evidenced by papers, projects, creative writing, musical composition, art work, or musical performance may also be admitted on an individual basis.

Summary of Requirements for the Honors Program

Most students participating in the Honors Program are pursuing the distinction of graduating with "Honors in General Education." This distinction is awarded to students who complete the following Honors Program requirements:

- a) ENGL 111 or ENGL 312
- b) 15-17 credit hours of Honors variants of General Education Program courses from an approved list
- c) 6 credit hours from the following:
 - IDIS 351 Honors Advanced Colloquium
 - IDIS 491 Honors Seminar
 - IDIS 493 Honors Thesis
 - Experiential Learning Option: Approved Study Abroad course, Undergraduate Research Project, Internship, Departmental Recital or other experiential learning experience (3 credits will count for the Honors Program requirement on approval of the Honors Program Advisory Group. Pre-approval necessary)
1. Honors students must earn a 3.0 average in all courses applied to meet Honors requirements and have at least a 3.0 cumulative grade point average upon graduation.
2. ENGL 111 is required of all students entering the Honors Program as first semester students. Students electing to join this program after their first semester are required to take ENGL 312.
3. Honors Experiential Learning course work, IDIS 493 Honors thesis and IDIS 491 Honors seminars may, with departmental approval, count towards requirements in the major. IDIS 491 credit hours may, with approval of the Honors Program Advisory Group, substitute for portions of the Modes of Inquiry section of the General Education Program.

Grade Repeat Option

Students earning a grade of D,F,FX, or WF in a designated Honors variant course may enroll in the non-honors equivalent and file the grade repeat authorization form requesting that the credit hours attempted and the grade earned in the first, Honors variant course not be used in calculating the cumulative grade point average and cumulative credits. All other regulations concerning the grade repeat option apply (see Course Repetition and Grading in the Academic Standards section of this catalog).

Use of the grade repeat option in this manner constitutes withdrawal from the University's Honors Program.

Information Technology Management

Collaborative Program

Major

Coordinator:

Mohsen Chitsaz,
Professor, Department of
Computer Science

- If you complete the major in information technology management, you will earn the Bachelor of Technical and Professional Studies (BTPS) degree.
- Since information technology management is an interdisciplinary program, grades in all program courses completed at FSU count in the major grade point average.
- A three-credit field experience is required.

	For Major
Hours required at Allegany College of Maryland	54-55
Hours required at Frostburg State University	64
Total Hours Required:	118-119

The Bachelor of Technical and Professional Studies degree in information technology management is a collaborative program between Frostburg State University and Allegany College of Maryland designed to provide advanced career opportunities for students who hold an Associate of Applied Science degree in computer science and technology (with options in programming, technical support or networking). If you hold a similar degree from another program, you may be considered for admission based on an articulation agreement between FSU and the other undergraduate institution.

The program is designed to prepare students for administrative positions in the management of information technology resources. All students will complete core advanced courses in computer science and business. Beyond the core, students may choose to further develop their knowledge in computer science or business administration through the selection of an in-depth track in one of these disciplines.

Summary of Requirements for Major in Information Technology Management

Major

- 1. An Associate of Applied Science degree in Computer Science and Technology** from Allegany College of Maryland. A maximum of 70 credits will transfer from all two-year colleges you have attended.
- 2. General Education Requirements:**
You must complete a minimum of 40 credits in general education as part of the baccalaureate program. General education courses typically completed as part of the A.A.S. degree include:
General Education: (22-23 hours)
English 101 Freshman English
Math 102 College Algebra
or Math 105 Elements of Mathematics
or Math 221 Elements of Statistics*
or Math 109 Pre-Calculus I
Social Science Elective (*Econ 202)
English 112 Business and Technical Communications
Lab Science Elective
Humanities Elective
Computer Tech 101 Computer Literacy (*Tech. Fluency*)

**required for Business Administration Track*

You may transfer additional general education courses from Allegany College of Maryland up to the maximum of 70 total transferable credits, or complete the remainder of your general education requirements at FSU. You will need to complete the following additional courses:

General Education: (18 hours)

Fine Arts	(FSU Group A)
Humanities	(FSU Group B)
Natural Science	(FSU Group C—with lab)
Social Science	(FSU Group D)
Advanced Writing (300 level – must be completed at FSU)	
Advanced Colloquium (300 level – must be completed at FSU - GEP Group E))	

3. Required courses in the major completed at Allegany College of Maryland:

Computer: (17 hours)

- 13-103 Computer Logic
- 13-191 Web Page Development
- 13-219 Operating Systems
- 13-221 Microcomputer Applications I
- 13-225 Introduction to Networking

Business: (3 hours)

Programming Option:

09-201 Principles of Accounting

Technical Support Option:

09-104 Sales & Customer Service

Network Option:

09-110 Business Administration

And one of the following options:

Programming Option: (12 hours)

13-218 C++ Programming

13-224 Advanced Web Page Development OR 13-235 Advanced C++

13-233 Visual Basic Programming

13-229 Database Design & Implementation

Technical Support: (12 hours)

13-180 PC Architecture

13-221 Microcomputer Applications II

13-XXX Electives – Two Courses

Network Option: (12 hours)

13-180 PC Architecture

13-234 JAVA Programming

13-227 Network Design & Administration

13-237 Computer Technology (Wireless Networking Fundamentals)

4. Required courses in the major completed at Frostburg State University:

Computer Science: (20 hours)

COSC 240 Computer Science I

COSC 241 Computer Science II

COSC 300 Structured Systems Anal. & Design

COSC 330 Web Design & Development

COSC 380 Computer-Based Information Systems

COSC 494 Field Experience COSC/Info Science

Business: (9 hours)

BLAW 291 Legal Environment of Business

MGMT 351 Management of Organizations

MGMT 356 Leadership and Human Behavior

And one of the following tracks:

Computer Science Track: (15 hours)

COSC 325 Software Engineering

COSC 335 Network Architecture Design

COSC 440 Database Management Systems

COSC Elective (300 or 400 level)

COSC Elective (300 or 400 level)

Business Administration Track: (15 hours)

FINA 303 Principles of Finance

MKTG 361 Principles of Marketing

MGMT 355 Operations Management

MGMT 357 Human Resources Management

MGMT 405 Business Ethics and Social Responsibility

5. COSC 488 Information Technology Management Portfolio Capstone (0 hours)

International Area Studies

Certificate

Coordinator:

Sally Boniece, Associate Professor, Department of History

- Students participating in a study abroad program may apply courses to this certificate if the courses transfer for upper division credit and are appropriate for the areas of the world identified below. Students must conform to FSU rules in using transfer credits for this certificate. These rules include obtaining prior approval before taking courses and a limit on the number of transferred credits that may be applied to the certificate.

Summary of Requirements for Certificate in International Area Studies

Choose Option 1, 2, 3, or 4:

(12 hours)

1. Europe:

(choose from at least three disciplines)

ART 360 Western Art History
 GEOG 401 Geography of Europe
 GEOG 402 Geography of Russia and the Former Republics
 HIST 404 Revolutionary and Soviet Russia
 HIST 476 Modern Europe
 POSC 333 Politics of Europe
 POSC 431 Russian Politics
 FREN 250 or above (250 - GEP Group B)
 SPAN 250 or above (250 - GEP Group B)

2. Latin America:

(choose from at least three disciplines)

ART 302 Artistic Traditions: Africa and the Americas (GEP Group F)
 GEOG 320 Geography of Latin America
 HIST 304 History of Latin America
 HIST 318 Native Peoples of the Americas (GEP Group F)
 HIST 450 The History of Mexico
 HIST 455 Latin American Revolutions
 POSC 331 Politics of Latin America
 POSC 435 Model Organization of American States
 SPAN 250 or above (250 - GEP Group B)

3. Africa and the Middle East:

(choose from at least 3 disciplines)

ART 302 Artistic Traditions: Africa and the Americas (GEP Group F)
 GEOG 403 The Geography of Sub-Saharan Africa
 HIST 341 Modern and Contemporary Middle East
 HIST 453 Contemporary Africa
 PHIL 311 Asian and African Philosophy (GEP Group F)
 POSC 330 Politics of Africa
 POSC 332 Politics of the Middle East
 FREN 250 or above (250 - GEP Group B)

4. Asia:

(choose from at least two disciplines)

ART 301 Artistic Traditions: Asia (GEP Group F)
 PHIL 311 Asian and African Philosophy (GEP Group F)
 HIST 357 India
 HIST 458 History of China and Korea
 HIST 459 History of Japan
 HIST 460 Modern and Contemporary Asia

International Studies

Major

Minor

Concentrations in

- international business
- international politics
- international economics
- international development

Coordinator:

Sally Boniece, Associate Professor, Department of History

Departmental Contacts:**Professors:**

Neral (Economics)

Associate Professors:

Boniece (History), Sanchez (Foreign Languages and Literature), Twing (Political Science), G. White (Geography)

Assistant Professor:

Foltos (Marketing & Finance)

- The International Studies major is interdisciplinary in nature and allows you to choose among four concentrations: International Business, International Politics, International Development and International Economics. The required core courses emphasize the interconnections among these four specializations and provide the solid foundation in history, politics, economics, and geography necessary both for the concentration and future employment.
- You are strongly encouraged to combine this major with a second major or minor, particularly in foreign languages.
- An internship is optional but INST 492 may be used for elective credits.
- Only courses in which a grade of C or better is earned will count toward satisfaction of major requirements.

	Major	Int'l. Politics Concentration	Int'l. Business Conc.	Int'l. Econ Conc.	Int'l. Development Conc.	Minor
Total Hours Required:	57-63	63-69	63-69	63-70	63-69	21

Summary of Requirements for Major/Minor in International Studies

Major	Minor
<p>1. Required Core Courses: (24 hours)</p> <p>INST 100 Intro. to International Studies (GEP Group F)</p> <p>INST 491 Seminar in International Studies (Capstone)</p> <p>BUAD 330 International Business</p> <p>ECON 201/211 Principles of Economics (Macro) (GEP Group D)</p> <p>ECON 202/212 Principles of Economics (Micro)</p> <p>GEOG 104/114 Human Geography (GEP Group D or F) or GEOG 110 World Regional Geography: Cultural Diversity (GEP Group F)</p> <p>HIST 100/111 The Contemporary World in Historical Perspective (GEP Group B or F) or HIST 114 World History</p> <p>POSC 113/114 Introduction to World Politics (GEP Group D) or POSC 131 Intro. to Comparative Politics (GEP Group D or F)</p>	<p>(3 hours)</p> <p>INST 100 Intro. to International Studies (GEP Group F)</p>
<p>2. Foreign Language: (12 - 18 hours)</p> <p>Students must complete the 200-level sequence 211-212-250 (or receive credit through advanced placement) and a 300-level course in a modern foreign language. Students are advised that an additional 6 credits in the language result in a minor. (250 - GEP Group B). A second option is to take 18 credit hours in any foreign language course offered or approved for credit by the foreign language department.</p>	<p>(0 hours)</p>
<p>3. Additional Courses: [For those completing a concentration, go to the concentration requirements] (21 hours)</p> <p>A. Required Courses: (15 hours)</p> <p>ECON 309 Comparative Economic Systems</p> <p>GEOG 407 Political Geography</p> <p>POSC 341 International Organization</p> <p>and two of the following:</p> <p>INST 150 Intro to World Religions (GEP Group F)</p> <p>MDFL 111 Intercultural Understanding (GEP Group F)</p> <p>SOCI 224 Cultural Anthropology (GEP Group F)</p> <p>B. Electives (6 hours)</p> <p>Two from among the following:</p> <p>MGMT 450 International Management</p> <p>MKTG 460 International Marketing</p> <p>FINA 470 International Financial Mgmt.</p> <p>ECON 400 International Trade</p> <p>ECON 401 International Finance</p> <p>ECON 405 Economics of Developing Countries</p> <p>GEOG 300 Economic Geography</p> <p>GEOG 406 Mgmt. & Conserv. of Natural Res.</p> <p>GEOG 427 Geog. of Languages & Religions (GEP Group F)</p> <p>HIST 309 World Environmental History</p> <p>HIST 319 A History of Terrorism</p> <p>HIST 436 Women's Issues in World History (GEP Group F)</p>	<p>3. Elective Courses: (18 hours)</p> <p>A minimum of 9 hours must be taken from Group I and 9 hours from Group II. You must select courses from at least three different disciplines in fulfilling the 18 hours for this requirement. Many courses in Group II require specific courses in Group I as prerequisites.</p> <p>Group I (9 hours)</p> <p>BUAD 330 International Business</p> <p>ECON 201/211 Principles of Economics-Macro (GEP Group D)</p> <p>ECON 202/212 Principles of Economics-Micro</p> <p>GEOG 104/114 Human Geography (GEP Group D or F) or GEOG 110 World Regional Geography: Cultural Diversity (GEP Group F)</p> <p>HIST 100/111 The Contemporary World in Historical Perspective (GEP Group B or F) or HIST 114 World History</p> <p>INST 150 Introduction to World Religions (GEP Group F)</p> <p>MDFL 111 Intercultural Understanding (GEP Group F)</p> <p>POSC 113/114 Introduction to World Politics (GEP Group D) or POSC 131 Introduction to Comparative Politics (GEP Group D or Group F)</p> <p>SOCI 224 Cultural Anthropology (Group F)</p>

- The International Studies program also offers the International Area Studies certificate, which is open to majors and non-majors

Major

HIST 475 Genocide and Mass Violence
 INST 492 Internship Seminar (*up to 6 hours*)
 LING 301 Introduction to Language
 PHIL 308 Political Philosophy (*GEP Group F*)
 POSC 342 Foreign Policy of the United States
 POSC 370 Introduction to Political Thought
 POSC 434 Comparative Legal Systems
 POSC 441 International Relations: Theory & Practice
 POSC 443 Transnational Terrorism & Counter-Terrorism
 POSC 488 Comparative Legal Systems

Minor

Group II

(9 hours)

ECON 309 Comparative Economic Systems
 ECON 400 International Trade
 or ECON 401 International Finance
 ECON 405 Economics of Developing Countries
 FINA 470 International Financial Management
 GEOG 300 Economic Geography
 GEOG 406 Mgmt. & Conservation of Natural Res.
 GEOG 407 Political Geography
 GEOG 427 Geography of Languages & Religions
 (*GEP Group F*)
 HIST 309 World Environmental History
 HIST 319 A History of Terrorism
 HIST 436 Women's Issues in World History (*GEP Group F*)
 HIST 475 Genocide and Mass Violence
 INST 491 Seminar in International Studies
 LING 301 Introduction to Language
 MGMT 450 International Management
 MKTG 460 International Marketing
 PHIL 308 Political Philosophy (*GEP Group F*)
 POSC 341 International Organization
 POSC 342 Foreign Policy of the United States
 POSC 370 Introduction to Political Thought
 POSC 441 International Relations: Theory & Practice
 POSC 443 Transnational Terrorism & Counter-Terrorism
 POSC 488 Comparative Legal Systems

Requirements for International Politics Concentration

1. Required Core Courses:

(24 hours – listed above)

2. Foreign Language:

(12-18 hours – listed above)

3. Additional Courses:

(27 hours)

A. Required Courses (18 hours):

ECON 309 Comparative Economic Systems
 GEOG 407 Political Geography
 POSC 250 Research Methods
 or GEOG 380 Research Methods in Geography
 POSC 341 International Organization
 POSC 342 Foreign Policy of the United States
 POSC 441 International Relations: Theory and Practice

B. Electives

(9 hours)

Three from among the following:

ECON 400 International Trade
 HIST 309 World Environmental History
 HIST 319 A History of Terrorism
 INST 492 Internship Seminar (*if internship is relevant to International Politics*)
 POSC 330 Politics of Africa
 POSC 331 Politics of Latin America
 POSC 332 Politics of Middle East
 POSC 333 Politics of Europe
 POSC 370 Introduction to Political Thought
 POSC 431 Russian Politics
 POSC 435 Model Organization of American States
 POSC 442 National Security Policy
 POSC 443 Transnational Terrorism & Counter-Terrorism
 POSC 488 Comparative Legal Systems

Requirements International Business Concentration

1. Required Core Courses:

(24 hours – listed above)

2. Foreign Language:

(12-18 hours – listed above)

3. Additional Courses:

(27 hours)

A. Required Courses (15 hours)

ACCT 211 Financial Accounting
 BLAW 291 Legal Environment of Business
 and one of the following pairs of courses:
 FINA 370 Corporate Finance*
 FINA 470 International Financial Management
 or
 MGMT 351 Management of Organizations
 MGMT 450 International Management
 or
 MKTG 361 Principles of Marketing
 MKTG 460 International Marketing
 and one of the following courses:
 ECON 309 Comparative Economic Systems
 ECON 400 International Trade
 ECON 401 International Finance

B. Elective Courses (12 hours)

ECON 405 Economics of Developing Countries
 FINA 303 Principles of Finance

GEOG 300 Economic Geography
 GEOG 407 Political Geography
 GEOG 427 Geography of Languages and Religions (GEP Group F)
 HIST 309 World Environmental History
 INST 492 Internship Seminar (if internship is relevant to International Business)
 PHIL 308 Political Philosophy (GEP Group F)
 POSC 341 International Organization
 POSC 370 Introduction to Political Thought
 POSC 441 International Relations: Theory and Practice
 POSC 488 Comparative Legal Systems

**Students should be aware that there are additional MATH and ACCT prerequisites for FINA 370; also, students are advised to complete FINA 303 before enrolling in FINA 370.*

Requirements for International Economics Concentration

1. Required Core Courses:

(24 hours – listed above)

2. Foreign Language:

(12-18 hours – listed above)

3. Additional Courses:

(27-28 hours)

A. Required Courses (21-22 hours)

ECON 400 International Trade
 ECON 401 International Finance
 ECON 405 Economics of Developing Countries
 ECON 407 Business Cycles and Forecasting
 or ECON 450 Quantitative Economics
 or ECON 460 Introduction to Econometrics
 GEOG 300 Economic Geography
 MATH 209/219 Elements of Applied Probability & Statistics
 (Core Skill 3)
 MATH 106 Algebra with Calculus for Business
 or MATH 220 Calculus for Applications I
 or MATH 236 Calculus I (Core Skill 3)

B. Electives (6 hours)

Two from among the following:

ECON 309 Comparative Economic Systems
 ECON 410 Resource and Environmental Economics
 GEOG 407 Political Geography
 INST 492 Internship Seminar (if internship is relevant to International Economics)
 POSC 341 International Organization

Requirements for International Development Concentration

1. Required Core Courses:

(24 hours – listed above)

2. Foreign Language:

(12-18 hours – listed above)

3. Additional Courses: (27 hours)

A. Required Courses (15 hours)

ECON 309 Comparative Economic Systems
 ECON 405 Economics of Developing Countries
 GEOG 300 Economic Geography
 INST 150 Introduction to World Religions (GEP Group F)
 POSC 341 International Organization

B. Electives (12 hours)

Four courses (chosen from at least three different disciplines) from among the following:

ECON 400 International Trade
 ECON 401 International Finance
 GEOG 320 Geography of Latin America
 GEOG 403 The Geography of Sub-Saharan Africa
 GEOG 407 Political Geography
 HIST 301 Traditional Africa
 HIST 304 History of Latin America
 HIST 453 Contemporary Africa
 HIST 455 Latin American Revolutions
 HIST 457 India
 INST 492 Internship Seminar (if internship is relevant to International Development)
 PHIL 311 Asian and African Philosophy (GEP Group F)
 POSC 330 Politics of Africa
 POSC 331 Politics of Latin America
 POSC 332 Politics of the Middle East

Leadership Studies

Total Hours Required:

Summary of Requirements for Minor in Leadership Studies

Minor

Minor

Coordinator:

Ruth Wallinger, Lecturer,
Division of Performing Arts,
Communication Studies

Participating Faculty:

Professor:

Connelly (Sociology and
Social Work)

Associate Professor:

Powell (Social Work)

Lecturers:

Bowling (Student and
Educational Services,
Mandicott (Student and
Educational Services),
Wallinger (Communication
Studies)

- The Leadership Minor is open to any student seeking theoretical and experiential knowledge regarding leadership. It is not necessary to be in leadership roles on or off campus.
- Course work in the minor is best begun in the sophomore year, though it is accessible to juniors as well.
- This minor entails a substantial number of experiential learning activities.
- Only courses in which a grade of C or better is earned will count towards satisfaction of the minor requirements.
- You cannot major in Leadership Studies.

1. Required Core Courses:

(13 credits)

CMST 102 Introduction to Human Communication
LEAD 201 Leadership Studies: Theory and Practice
LEAD 250 The Citizen Leader
LEAD 494 Practicum in Leadership Studies

2. Leadership Values and Skills

(3 credits)

Select one of the following courses:

CMST 215 Small Group Communication
CMST 300 Interpersonal Communication
CMST 322 Presentational Communication
CMST 335 Organizational Communication
MGMT 356 Leadership and Human Behavior
MGMT 405 Business Ethics and Social Responsibility
PHIL 201 Ethics
PHIL 304 Social Philosophy
PHIL 314 Business Ethics
POSC 462 Personality and Politics
PSYC 385 Group Processes
PSYC 414 Theories of Personality
PSYC 418 Social Psychology
SOWK 375 Human Behavior and the Social Environment I
SOWK 473 Generalist Practice with Groups

3. Leadership Environments

(3 credits)

Select one of the following courses:

LEAD 499 Independent Study (3 cr.)
MGMT 351 Management of Organizations
MGMT 357 Human Resources Management
MGMT 359 Quality Management
POSC 321 State and Local Politics
POSC 323 Public Administration
POSC 352 Interest Groups
POSC 358 American Public Policy
POSC 427 The American Presidency
RECR 380 Recreational Leadership
RECR 382 Program Planning
SOCI 325 Community Analysis
SOWK 370 Introduction to Social Welfare

Liberal Studies

Major

Coordinator:

Katherine Almquist,
Assistant Professor,
Department of Foreign
Languages and Literature

Participating Faculty:

John McMullen, Assistant
Professor, Department of
Sociology (Social Sciences),
Thomas Sigerstad, Assistant
Professor, Department of
Management (Business),
Lew Muth, Director of FSU
Programs, USM at
Hagerstown

- Early Childhood/Elementary Education and Elementary Education majors should consult with their advisors about the advantages of a double major in Liberal Studies.
- Only courses in which a C or better is earned will count toward satisfaction of major requirements.
- You must submit a 300-500 word rationale describing goals and objectives of focus area for entry. To complete the major, you must evaluate the extent to which these goals and objectives were met (see program exit requirements).
- The Liberal Studies major may be completed on the Frostburg campus and at the University System of Maryland in Hagerstown.
- You cannot earn a minor in Liberal Studies.

For Major

Total Hours Required:

48

The Liberal Studies major is an integrative program providing breadth in the arts, humanities, natural and social sciences, and depth in an area of specialization.

The major is adaptable to student interest in technical and/or professional studies and constitutes a desirable preparation for graduate training or for entry and advancement opportunities in a wide array of employment fields requiring a baccalaureate degree.

Summary of Requirements for Major in Liberal Studies

Major

I. Liberal Core:

(21 hours)

A minimum of 21 hours of course work in the arts and sciences in addition to courses satisfying General Education Program requirements, and distributed as follows:

- A. 3 hours in communication arts course that focuses on writing or speaking.
- B. 18 hours in arts and sciences courses, including a minimum of 3 hours each in arts, humanities, natural sciences and social sciences.

NOTE: Students seeking Maryland State teaching certification in Early Childhood and/or Elementary Education must complete specific courses within these categories; they should consult an advisor in the Department of Educational Professions.

II. Focus Area Requirements (approval of LBST Coordinator required):

(27 hours)

- A. A minimum of 24 hours in a discipline or disciplines (including current minors) related to the student's area of technical or professional training or other specialized interest, including a minimum of 15 hours at the 300/400 level.
- B. A minimum of 3 hours in a capstone course (seminar, individual research, practicum, field work or internship).

III. Program Exit Requirements

(0 hours)

Completion of the LBST 450 Senior Self- Assessment. The SSA includes:

- A. 300-500 word word-processed statement that explains the choice of senior capstone course, justifies the inherent integrity of the focus area, and articulates post-baccalaureate goals.
- B. Breakdown of the learning goals and outcomes of each course included in the focus area following program guidelines and evaluation of extent to which goals were accomplished.

Social Science

Major

Teaching Certification Option

	For Major	For Teaching Cert. Option
Hours required in Social Sciences:	60-61	63-64
Hours required in other fields:	6	45.5
Total Hours Required:	66-67	108.5-109.5

Summary of Requirements for Major in Social Science

Major

Coordinator:

David J. Fell, Professor
Emeritus, Department of
Educational Professions

Department Contacts:

David Kiriazis, Chair,
Dept. of Economics
George White, Chair, Dept.
of Geography
Nicholas Clulee, Chair,
Dept. of History
Stephen Twing, Chair,
Dept. of Political Science
Kevin Peterson, Chair,
Dept. of Psychology
Robert Moore, Chair,
Dept. of Sociology

- A major in Social Science requires a minimum of 66 hours; you cannot minor in Social Science.
- Completion of the Social Science major (Teaching Certification Option) is required for approved program teacher certification in secondary social studies.
- Only courses in which you earn a grade of C or better will count towards satisfaction of major requirements in the Social Science Teaching Certification Option.
- **+ indicates a variation in requirements for the Teaching Certification Option.**

1. Introductory Level Courses:

(36 hours)

Economics (6 hours)

ECON 201 Principles of Economics (Macro) (GEP Group D)
or ECON 211 Honors: Principles of Macroeconomics (GEP Group D)
ECON 202 Principles of Economics (Micro)
or ECON 212 Honors: Principles of Microeconomics

Geography (6 hours)

GEOG 104 Human Geography (GEP Group D or Group F)
or GEOG 114 Honors Human Geography (GEP Group D or Group F)
or GEOG 110 World Regional Geography: Cultural Diversity (GEP Group F)
GEOG 301 Geography of North America
or GEOG 302 Geography of Maryland

History (6 hours)+

Select one of the following sequences:

HIST 103, 104 History of the United States
or HIST 113, 114 World History

Political Science (6 hours)

POSC 110 Introduction to American Politics (GEP Group D)
or POSC 112 Honors Introduction to American Politics (GEP Group D)
POSC 113 Introduction to World Politics (GEP Group D)
or POSC 114 Honors Introduction to World Politics (GEP Group D)
or POSC 131 Introduction to Comparative Politics (GEP Group D or Group F)

Psychology (6 hours)

PSYC 150 General Psychology (GEP Group D)
or PSYC 151 Honors General Psychology (GEP Group D)
and one from among:
PSYC 210 Child Development
PSYC 212 Adolescence and Adulthood
PSYC 220 Psychology of Women (GEP Group F)

Sociology (6 hours)

SOCI 100 Introduction to Sociology (GEP Group D)
or SOCI 111 Honors Introduction to Sociology (GEP Group D)
and 1 from among:
SOCI 200 Social Problems
SOCI 224 Cultural Anthropology (GEP Group F)
SOCI 305 Racial and Cultural Minorities (GEP Group F)
SOCI 306 Sociology of African Americans

(NOTE: Students interested in pursuing secondary social studies certification at either the undergraduate or master's level should choose SOCI 224, SOCI 305, or SOCI 306.)

2. Tracks: (18 hours)

Select 2 of the following departmental patterns.

Economics (9 hours)

Select from:

ECON 300 History of Economic Thought
ECON 303 American Economic History
ECON 306 Money and Banking
ECON 307 Government, Business and Public Policy
ECON 309 Comparative Economic Systems
ECON 351 Intermediate Macroeconomics
ECON 352 Intermediate Microeconomics
ECON 400 International Trade

ECON 401 International Finance
 ECON 405 Economics of Developing Countries
 ECON 407 Business Cycles and Forecasting
 ECON 408 Urban and Regional Economics
 ECON 490 Special Topics in Economics

Geography (9 hours)

Select one course from each group:

- a. GEOG 300 Economic Geography
 or GEOG 407 Political Geography
 or GEOG 410 Locational Analysis
 or GEOG 425 Geography of Transportation
 or GEOG 427 Geography of Languages and Religion
 (GEP Group F)
- b. GEOG 320 Geography of Latin America
 or GEOG 401 Geography of Europe
 or GEOG 402 Geography of Russia & the Former Republics
 or GEOG 403 Geography of Sub-Saharan Africa
- c. GEOG 324 Urban Geography: Internal City Patterns
 or GEOG 325 Urban Geography: Metropolitan Systems

History (9 hours)+

Select from 300- or 400-level history courses.

Political Science (9 hours)

Select one course from each of the three groups:

- a. POSC 352 Interest Groups
 POSC 361 Public Opinion and Political Behavior
 POSC 362 Political Parties and Elections
 POSC 363 Media and Politics
 POSC 365 Women and Politics
 POSC 462 Personality and Politics
- b. POSC 330 Politics of Africa
 POSC 331 Politics of Latin America
 POSC 332 Politics of Middle East
 POSC 333 Politics of Europe
 POSC 341 International Organization
 POSC 342 Foreign Policy of the United States
 POSC 431 Russian Politics
- c. POSC 321 American State and Local Politics
 POSC 323 Public Administration
 POSC 324 Criminal Justice Systems
 POSC 421 American Legislative Politics
 POSC 422 American Constitutional Law I
 POSC 423 American Constitutional Law II
 POSC 427 The American Presidency

Psychology (9-10 hours)

Select one course each from three of the four groups:

- a. PSYC 210 Child Development
 or PSYC 212 Adolescence and Adulthood
Selection may not duplicate introductory courses.
- b. PSYC 213 Psychology of Adjustment
 or PSYC 301 Research Methods II
 or PSYC 303 Psychology of Marriage
- c. PSYC 418 Social Psychology
- d. PSYC 414 Theories of Personality
 or PSYC 417 Psychology of Abnormal Behavior

Sociology (9 hours)

Select one course from each of the three groups if either SOCI 305 or SOCI 224 is taken to satisfy Part I of requirements. If neither SOCI 305 nor SOCI 224 was taken to satisfy Part I of major requirements, choose either SOCI 305 Racial and Cultural Minorities (GEP Group F) or SOCI 224 Cultural Anthropology (GEP Group F) and select two additional courses, one each from two of the following groups. In either case, selections may not duplicate choices made to meet other major requirements.

a. Social Institutions and Structures

SOCI 305 Racial and Cultural Minorities (GEP Group F)
 SOCI 362 Sociology of Religion
 SOCI 364 Marriage and Family Relationships
 SOCI 366 Social Inequality
 SOCI 367 Sociology of Medicine
 SOCI 436 Social Aspects of Mass Communication

b. Social Behavior

SOCI 203 Sociology of Deviant Behavior
 SOCI 306 Sociology of African Americans
 SOCI 332 Collective Behavior
 SOCI 334 Gender and Social Life
 SOCI 340 Criminology
 SOCI 442 Juvenile Delinquency
 SOCI 468 Sociology of Later Life

c. Community and Society

SOCI 224 Cultural Anthropology (GEP Group F)
 SOCI 322 Social Demography
 SOCI 325 Community Analysis
 SOCI 326 Sociology of Rural Life
 SOCI 328 Sociology of Urban Life

3. Research Methods+

(3-4 hours)

Choose one of the following from a department selected as a track above:

ECON 450 Quantitative Economics
 GEOG 380 Geographic Research Methods and Field Techniques
 HIST 299 Writing and Research in History
 POSC 250 Research Methods
 PSYC 300 Research Methods I
 SOCI 311 Basic Research Methods

4. Social Science Seminar (3 hours)

SOSC 490 Topics in Social Science (Capstone)

5. Other required courses (6 hours)

CMST 102 Introduction to Human Communication*
 COSC 100 Introduction to Computer Science*+ (Tech. Fluency)

*Note: you must receive a grade of C or better for this course to count toward major.

Summary of Requirements for Major in Social Science – Teaching Certification Option+

If you want to earn teaching certification in social studies, you must complete the Social Science major described above with the **following variations** in requirements (footnoted with a + in the major description):

1. Introductory Level Courses:

(42 hours)

As above, except:

History (12 hours)

Both of the following sequences:

HIST 103, 104 History of the United States

HIST 113, 114 World History

2. Tracks and 3. Research Methods: (18-19 hours)

Select 2 of the departmental patterns. Include a research methods course as a substitute for any one course in one selected track. See the list of research methods courses in 3. Research Methods in the description of the major above.

History (9 hours)

Three 300- or 400-level history courses. At least one of the courses must be non-western (e.g., Asian, African, Middle Eastern).

3. Other required courses:

COSC 100 Introduction to Computer Science (*Tech. Fluency*)

or EDUC 346, 447, 448 Education Technology Labs I-III (*Tech. Fluency*)

Summary of Requirements for Teaching Certification Option in Social Studies

If you wish to complete a Maryland State approved program in teaching Social Studies, you must:

- Complete the BA/BS in Social Science - Teaching Certification Option.
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: Secondary School Programs *or*
- Complete the M.A.T. - Secondary Education program described in the Graduate Catalog, following the completion of the bachelor's degree.

Students who plan to apply for the M.A.T. Secondary Program must complete both the United States (103-4) and World History (113-114) sequences and all other requirements in the Summary of requirements for major in social science.

Course Descriptions

Listed alphabetically by academic department or program

Accounting

ACCT 211 Financial Accounting 3 cr.
An introduction to the principles and concepts of financial accounting, including the basic accounting process, required to make informed decisions based on financial statement information. Credit cannot be earned for both ACCT 201 and ACCT 211. Every semester.

ACCT 212 Managerial Accounting 3 cr.
Accounting as a tool for decision making, control and evaluation. Volume-cost-profit analysis, budgeting, standard costing, variance analysis and product costing. Credit cannot be earned for both ACCT 212 and ACCT 310. Every semester. *Prerequisite: C grade or better in ACCT 211.*

ACCT 305 Accounting Systems 3 cr.
Modern accounting systems, computer applications in accounting problems and systems design. Lab/Lecture. Fall. *Prerequisite: C grade or better in ACCT 311 and COSC 100/110.*

ACCT 311 Intermediate Accounting I 3 cr.
Accounting standards, conceptual framework, comprehensive development of the accounting process, financial statement preparation, and time value of money. Credit cannot be earned for both ACCT 301 and ACCT 311. Every semester. *Prerequisites: C grade or better in ACCT 211 or 202.*

ACCT 312 Intermediate Accounting II 3 cr.
Application of accounting theory and techniques, sequel to ACCT 311. Current assets, plant assets, intangible assets, liabilities. Every semester. *Prerequisite: C grade or better in ACCT 311.*

ACCT 313 Intermediate Accounting III 3 cr.
Application of accounting theory and techniques, sequel to ACCT 311 and ACCT 312. Earnings per share, stockholders' equity, investments, revenue recognition, income taxes, pensions and post-retirement benefits, leases, accounting changes and error analysis, statement of cash flows and full disclosure. Fall. *Prerequisite: C grade or better in ACCT 312.*

ACCT 315 Cost Accounting 3 cr.
In-depth coverage of cost planning, determination, evaluation and analysis. Budgeting, pricing, and decision making are also emphasized. Spring. *Prerequisite: C grade or better in ACCT 212.*

ACCT 325 Auditing 3 cr.
Fundamentals of auditing theory and practice. Ethics, legal liability, generally accepted auditing standards, the conceptual framework underlying auditing and reporting. General approaches to auditing financial statements, other services provided by public accountants. Spring. *Prerequisites: C grade or better in ACCT 301 or ACCT 311, and C grade or better in ACCT 305.*

ACCT 330 Governmental and Nonprofit Accounting 3 cr.
Accounting and financial reporting for state and local governments, and nonprofit organizations such as hospitals and colleges. Fall. *Prerequisite: C grade or better in ACCT 301 or ACCT 311.*

ACCT 340 Financial Reporting Issues 3 cr.
Investors' use of financial statements, management motives in issuing statements, internal financial versus reporting decisions, economic significance of accounting reports, and the evolution and variety of accounting principles. Dissection of corporate accounting reports required by the financial markets, creditors, and regulatory authorities. Spring. *Prerequisites: 42 credits and C grade or better in ACCT 212 or permission of instructor.*

ACCT 401 Advanced Financial Accounting 3 cr.
Partnerships, business combinations, consolidated financial statements, international accounting issues, foreign currency transactions, foreign currency financial statement translation and other current topics. Spring. *Prerequisite: C grade or better in ACCT 302 or ACCT 312.*

ACCT 420 Tax 3 cr.
Federal income taxation of individuals and business entities. Basic tax research, tax planning, and professional responsibilities. Other topics, such as tax preparation software, at the discretion of the instructor. Fall. *Prerequisites: 75 credits and C grade or better in ACCT 212 or permission of instructor.*

ACCT 425 Volunteer Income Tax Assistance 2 cr.
Guided work experience in tax preparation of federal and state returns provided as a community service. Requires a minimum of 50 hours of experience and completion of IRS and campus training program. Repeatable up to 4 credits. Does not fulfill ACCT major electives requirement. Spring. *Prerequisites: ACCT 420 or permission of instructor.*

ACCT 494 Internship in Accounting 3 or 6 cr.
Guided work experience in public accounting, industry, government or nonprofit accounting. Minimum of 135 clock hours of experience for 3 credits. Minimum of 270 clock hours of experience for 6 credits. Academic component consists of two research papers on experience-related topics and a detailed report on the field experience. Previous experience not acceptable for credit. Repeatable up to 6 credits. Every semester and summer. *Prerequisites: Junior or Senior standing, 12 cr. in accounting, departmental approval.*

African American Studies

AAST 200 Introduction to African American Studies 3 cr.
Overview of critical aspects of the history and culture of African Americans. Employs various interdisciplinary perspectives to explore the experience of Africans uprooted from their land, ways in which these African Americans have adjusted to their new society, and contributed to its growth and development. Spring. *GEP Group F.*

AAST 300 Traditional Africa 3 cr.
The African pre-colonial states: their governments, economic systems, cultural patterns, achievements, and relations with other African and non-African peoples. Also offered as HIST 301. Variable.

AAST 400 Africans of the Diaspora 3 cr.
Exploration of the main historical trends, cultural tenets, social movements, and intellectual constructions of the African Diaspora with focus on the international connections created by voluntary and forced migrations of people of African descent in antiquity and modern times. Examination of the historical challenges to Africans of the Diaspora and initiatives taken in the face of various Euro-American systems and institutions. Variable. *GEP Group F.*

AAST 490 Topics in African American Studies 3 cr.
Variable topics related to African American Studies from disciplines across the University. Variable. May be repeated for up to 6 credits if topics are substantially different. *Prerequisite: AAST 200 or permission of the instructor.*

AAST 494 AAST Practicum 3 cr.
Study of African American history and culture through field trips to cities in Maryland and neighboring states, articulated with a theoretical analysis of major themes under study. Readings, some classroom sessions, private consultations with the instructor, and personal writings constitute the theoretical component of the practicum. Lecture, travel, and independent study. Additional fees required. Every semester. *Prerequisite: permission of the instructor.*

Art

ART 100 Art Appreciation 3 cr.

Introduction to the appreciation and understanding of the visual arts. Every semester. *GEP Group A.*

ART 104 Two-Dimensional Design 3 cr.

Introduction to the visual organization and formal analysis of two-dimensional design. Critical study, vocabulary, design applications, and media explorations as applied to two-dimensional design. Required of all art majors and minors. Two hr. lecture, 2 hr. lab. Fall.

ART 105 Three-Dimensional Design 3 cr.

Introduction to the visual organization and formal analysis of three-dimensional design. Critical study, vocabulary, design applications, and media explorations as applied to three-dimensional design. Required of all art majors and minors. Two hr. lecture, 2 hr. lab. Spring.

ART 110 Visual Imagery 3 cr.

An introduction to the visual arts through theory and practice; exploring basic aesthetic concepts, modes of visual communication, expressive meaning of various materials, theoretical components and symbol systems. Admission priority for Early Childhood and Elementary Education majors. Every semester. *GEP Group A.*

ART 111 Honors: Art Appreciation 3 cr.

Introduction to the appreciation and understanding of the representational and visual arts. Focus includes the visual arts' relationship to civilizations' ideas, cultural developments in the humanities, and iconography. Fall. Credit cannot be earned for both ART 100 and ART 111. *Prerequisite: acceptance into the Honors Program or permission of instructor. GEP Group A.*

ART 202 Ceramics 3 cr.

Introduction to ceramic processes, history, and aesthetics of ceramic form; an exploration of functional and sculptural ceramics. Studio performance stressed. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisite: ART 105 or permission of instructor.*

ART 207 Graphic Design 3 cr.

Basic level graphic processes and techniques: Photoshop and Quark softwares, Macintosh platform. Information and technology fluency. Visual art and graphic design orientation. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites: ART 104 and ART 212, or permission of instructor. Tech. Fluency*

ART 209 Crafts Workshop 3 cr.

A variety of crafts such as textiles, weaving, mosaics, leather, and metalwork. Two hr. lecture, 2 hr. lab. Variable.

ART 212 Drawing 3 cr.

Drawing as a creative process. Study and representation of objects and natural forms, visualization and composition; graphic images, both figurative and non-figurative, in various media. Two hr. lecture, 2 hr. lab. Every semester.

ART 221 Painting 3 cr.

Introduction to painting — color, form, shape, and texture; problems in formal and expressive relationships. Studio performance stressed. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites: ART 104 and ART 212, or permission of instructor.*

ART 232 Printmaking 3 cr.

Introduction to relief, intaglio, planographic, and serigraphic processes. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites: ART 104 and ART 212, or permission of instructor.*

ART 235 Photography 3 cr.

Introduction to still photography: basic camera use, exposure control, and darkroom procedure. Final portfolio of work required. Two hr. lecture, 2 hr. discussion, and one 3-hr. darkroom period per week. Every semester.

ART 236 Digital Imaging 3 cr.

Introduction to photography and image manipulation using digital processes. Students will study the basics of traditional still photography, but enhance the learning experience through digital production on the Macintosh computer. An introduction to the computer as a tool in fine arts: camera use,

scanning, digital manipulation and output. Two hr. lecture, 2 hr. lab. Variable. *Prerequisites: ART 104 or permission of instructor.*

ART 240 Sculpture 3 cr.

Introduction to classical and contemporary concepts of form and media of sculpting. Physical properties of structure and the nature of materials. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites: ART 105 or permission of instructor.*

ART 291 Studio Focus Review 0 cr.

Registration concurrent with second advanced studio in focus area. May be taken no more than three times. Graded P/N. Every semester.

ART 301 Artistic Traditions: Asia 3 cr.

Survey of cultures outside the European tradition. An iconographic and aesthetic analysis of Asian traditions: Buddhist, Hindu, and Islamic. Fall, even-numbered years. *GEP Group F.*

ART 302 Artistic Traditions: Africa and the Americas 3 cr.

Survey of cultures outside the European tradition. An iconographic and aesthetic analysis of the arts of Africa, Pre-Columbian America and the indigenous populations of North America. Fall, odd-numbered years. *GEP Group F.*

ART 307 Computer Graphics 3 cr.

Introduction to terminology, methods, processes, craft, and technology of the computer graphic designer; emphasis on theory and application of the Macintosh computer system. May be taken only one time for credit. Two hr. lecture, 2 hrs. lab. Every semester. *Prerequisite: ART 207.*

ART 360 Western Art History 3 cr.

Survey from the prehistoric to the modern. The theoretical evolution of classicism and anti-classicism as evidenced in painting, sculpture and architecture. Fall.

ART 370 Women/Gender and the Visual Arts 3 cr.

A survey and analysis of the roles of women and gender in artistic production, spectatorship, and critical discourse. Painting, sculpture, and photography. Spring, even-numbered years.

ART 380 19th-Century Art History 3 cr.

Survey of major artistic developments in Europe and America from the time of the French Revolution until World War I. This course presents the broad context of 19th century art. Fall, even-numbered years.

ART 402 Advanced Ceramics 3 cr.

Continued study of clays and glazes, potter's wheel and handbuilding techniques; critical analysis and research into historical and contemporary trends. At advanced levels, departmental majors will be involved in research and development of concepts culminating in a final senior exhibition or an internship. May be taken no more than 4 times for credit. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites: ART 202 and ART 412, or permission of instructor; concurrent enrollment in ART 291 and second advanced course.*

ART 407 Advanced Graphic Design: Print & Video Media 3 cr.

Continued study of print media and an introduction to video media. Students will solve a variety of design problems using Macintosh computers combined with traditional layout and illustration techniques. Lectures, demonstrations and class critiques demonstrate historical and functional use of a professional quality portfolio, culminating in a final senior exhibition or an internship. May be taken no more than 2 times for credit. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites: ART 207, ART 307 and ART 412, or permission of instructor; concurrent enrollment in ART 291 and second advanced course.*

ART 408 20th-Century Art History 3 cr.

Survey of major developments from post-impressionism to post-modernism and the contemporary: Europe and the United States. Spring.

ART 411 Senior Portfolio 3 cr.

Continued investigation and development of studio work and concepts, culminating in a professional portfolio. Co-registration in ART 491 required. Every semester. *Prerequisite: Passage of studio focus review and senior status. Capstone.*

ART 412 Advanced Drawing**3 cr.**

Continued study of drawing media. Students will be involved in research and development of concepts. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisite:* ART 212.

ART 414 Advanced Graphic Design: Multimedia Design**3 cr.**

Continued advanced study of graphic design with emphasis on interactive design. Processes include digital imaging, digital video and audio production, animation, and interface design and scripting. Lectures, demonstrations, and critiques will focus on the formal, historical, and sociological aspects of interactive design. At the advanced level, departmental majors will be involved in research and development of concepts culminating in a professional quality portfolio, a final senior exhibition or an internship. May be taken no more than 2 times for credit. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites:* ART 407 (twice).

ART 415 Art Criticism**3 cr.**

Problems in describing, analyzing, interpreting, and evaluating art. History, purposes, conceptual bases, and methods of art criticism; critical performance. Spring. *Prerequisites:* ART 360 or ART 408, 60 credit minimum.

ART 416 Illustration**3 cr.**

Exploration of illustrative techniques and media, both 2- and 3-D, and their application to graphic design, science, fashion, technology and industry. Problem-solving and topics in rendering, creative conception, media exploration, style, pre-production and printing methods, and career-oriented portfolio pieces. Two hrs. lecture, 2 hrs. lab. Variable. *Prerequisites:* ART 212 and ART 412.

ART 421 Advanced Painting**3 cr.**

Continued study of painting and painting materials through individual problem-solving in objective and non-objective painting; critical analysis and research into historical and contemporary trends. At advanced levels, departmental majors will be involved in research and development of concepts culminating in a final senior exhibition or internship. May be taken no more than 4 times for credit. Two hr. lecture, 2 hrs. lab. Every semester. *Prerequisites:* ART 221 and ART 412, or permission of instructor; concurrent enrollment in ART 291 and second advanced course.

ART 430 Greek and Roman Art**3 cr.**

A social and art historical analysis of Greco-Roman visual representation. Sculpture and painting. Spring, odd-numbered years.

ART 432 Advanced Printmaking**3 cr.**

Continued study of printmaking processes, refinement of media, and individual expression; critical analysis and research into historical and contemporary trends. At advanced levels, departmental majors will be involved in research and development of concepts culminating in a final senior exhibition or internship. May be taken no more than 4 times for credit. Two hr. lecture, 2 hrs. lab. Every semester. *Prerequisites:* ART 232 and ART 412, or permission of instructor; concurrent enrollment in ART 291 and second advanced course.

ART 435 Advanced Photography**3 cr.**

In-depth photographic exploration of selected subject matter. Unified photographic thesis required; critical analysis and research into historical and contemporary trends. At advanced levels, departmental majors will be involved in research and development of concepts culminating in a final senior exhibition or internship. May be taken no more than 4 times for credit. Two hr. lecture, 2 hrs. lab. Every semester. *Prerequisite:* ART 235; concurrent enrollment in ART 291 and second advanced course.

ART 440 Advanced Sculpture**3 cr.**

Continued study of functional and non-functional sculpture, and individual expression; critical analysis and research into historical and contemporary trends. At advanced levels, departmental majors will be involved in research and development of concepts culminating in a final senior exhibition or internship. May be taken no more than 4 times for credit. Two hrs. lecture, 2 hrs. lab. Every semester. *Prerequisites:* ART 240 and ART 412, or permission of instructor; concurrent enrollment in ART 291 and second advanced course.

ART 452 Ceramic Glaze Research**3 cr.**

Exploration of ceramic glaze components, glaze calculation, glaze surfaces and firing temperatures. Two hrs. lecture, 2 hrs. lab. Variable. *Prerequisites:* ART 202, ART 402 or permission of instructor.

ART 460 Renaissance and Baroque Art History**3 cr.**

The evolution of humanism and realism in the *quattrocento*, mannerism in the *cinquecento*, and caravaggism and classicism in the *seicento*. Fall, odd-numbered years.

ART 490 Special Topics in Art**1-6 cr.**

Concepts or media not regularly presented, using special resources. Lecture and studio or lecture only. Variable. *Prerequisite:* permission of instructor.

ART 491 Senior Review**0 cr.**

Graded P/N. Co-registration in ART 411 required. Every semester.

ART 492 Internship Research**3 cr.**

Academic component of internship. Requires co-registration in 495. Graded A-F. Every semester.

ART 495 Internship in Art**6 or 12 cr.**

Experiential component of internship: guided work experience in conjunction with 492; must directly relate to academic program. Full-time interns register for 3 credits in 492 and 12 credits in 495 and may not enroll in other courses. Part-time interns register for 3 credits in 492 and 6 credits in 495. Graded P/F. Every semester. *Prerequisites:* senior status, in good academic standing; submission of Internship Agreement form prior to registering; enrollment for a full year as FSU student; permission of focus supervisor and Department Chair; 3 advanced courses in the focus.

ART 499 Independent Study**1-3 cr.**

Intensive individual study, staff-directed, in an area of special interest. *Prerequisite:* permission of instructor in the focus area. Available only to Art & Design majors, Art History minors, Fine Arts minors, and Graphic Design minors who have completed their respective focus sequences.

Biology**BIOL 109 Human Biology and the Environment****4 cr.**

Study of the human species with emphasis on the interdependence of humans, other forms of life, and the physical environment. Three hrs. lecture, 2 hrs. lab. Not for majors or minors. Every semester. *GEP Group C.*

BIOL 128 Introduction to Ethnobotany**4 cr.**

Introduction into the discipline of ethnobotany focusing on the role of plants in Appalachian and other cultures. Field trips to local parks and visits with people active in the use of plants will provide opportunities for hands-on experience with techniques and methods used by field ethnobotanists. Three hrs. lecture, one 2-hr. lab. Fall.

BIOL 149 General Biology I**4 cr.**

Biological principles and concepts. The life processes, development and relationship among organisms. Three hrs. lecture, 2 hrs. lab. Every semester. *GEP Group C.*

BIOL 150 General Biology II**4 cr.**

Plant and animal groups and the ecosystem. Emphasis on physiology and morphology. Three hrs. lecture, 2 hrs. lab. Required for majors. Every semester. *Prerequisite:* BIOL 149.

BIOL 200 Scientific Investigation and Communication**3 cr.**

Problem solving and communication in the natural sciences. Emphasis on analytical reasoning, application of concepts and principles, and values of language, order, and measurement to scientific thought. Three hrs. lecture/discussion. Every semester. *Prerequisite:* BIOL 149, MATH 209, and sophomore standing or permission of instructor.

BIOL 201 Anatomy and Physiology I**4 cr.**

Structure and function of the human body. Includes its organization, the musculoskeletal system and the nervous system. Two hrs. lecture and two 2-hr. labs. Fall. *Prerequisite:* BIOL 149.

BIOL 202 Anatomy and Physiology II**4 cr.**

Structure and function of the human body. Includes the endocrine, circulatory, respiratory, digestive, excretory, and reproductive systems, and human development. Two hrs. lecture and two 2-hr. labs. Spring. *Prerequisite:* BIOL 201 or permission of instructor.

BIOL 211 Essentials of Anatomy and Physiology**4 cr.**

An introduction to the structure, function, and movement of the human body. Three lectures and one two-hour laboratory period per week. Not for majors. Fall. *Prerequisite:* BIOL 149.

BIOL 230 Wildlife Techniques**3 cr.**

Study and management of wildlife species. Capture, marking, physiological indices, food habits and nutrition, sex and age, population and habitat analysis. Current management practices. Two hrs. lecture, 3-hrs. lab. Fall. Not open to students who have credit for former BIOL 330. *Prerequisite:* BIOL 150.

BIOL 302 Animal Physiology**4 cr.**

Mammalian physiology, with emphasis on basic physiology. Two hrs. lecture, two 2-hr. labs. Every semester. *Prerequisite:* BIOL 149, CHEM 102.

BIOL 303 Plant Physiology**4 cr.**

Higher-plant growth and differentiation. Case-study method. Topics include general differentiation, photometabolism, translocation, and water relations. Three hrs. lecture, 3 hrs. lab. Spring. *Prerequisites:* BIOL 150 and CHEM 102. CHEM 301 recommended.

BIOL 304 Microbiology**4 cr.**

Microorganisms, especially their form, structure, reproduction, physiology, metabolism, and identification, will be studied with emphasis on their distribution in nature, their beneficial and detrimental effects on humans, and the physical and chemical changes they make in the environment. Two hrs. lecture and two 2-hr. labs. Every semester. *Prerequisites:* BIOL 149, CHEM 102.

BIOL 305 Dendrology**3 cr.**

Collection, identification, and study of native and introduced woody plants in summer and winter conditions. One hr. lecture, two 2-hr. labs. Fall. *Prerequisite:* BIOL 149.

BIOL 306 Vertebrate Embryology**4 cr.**

Development of the vertebrate from gametogenesis to the establishment of organ systems. Two hrs. lecture and two 2-hr. labs. Spring, odd-numbered years. *Prerequisites:* BIOL 150, BIOL 327.

BIOL 309 General Entomology**4 cr.**

Identification, morphology, physiology, development, geological history, ecology, and control of insects. Two hrs. lecture, two 2-hr. labs. Fall, odd-numbered years. *Prerequisite:* BIOL 150.

BIOL 310 Cell Biology**4 cr.**

Dynamics of cells and their life processes. Ultrastructure, organization, thermodynamic and metabolic processes. Recommended for biology majors immediately following BIOL 150. Three hrs. lecture, one 2-hr. lab. Fall. *Prerequisites:* BIOL 150, CHEM 102. *Corequisite:* CHEM 301 or permission of instructor.

BIOL 311 Morphology of Fungi and Non-Vascular Plants**4 cr.**

Morphology, taxonomy, evolution, and life histories of photosynthetic bacteria, algae, fungi, mycorrhizae, lichens and bryophytes. Emphasis on organisms important to the human species; plant and animal pathogens, and organisms of economic and ecological importance. Two hrs. lecture, two 2-hr. labs. Fall. *Prerequisite:* BIOL 150.

BIOL 312 Morphology of Vascular Plants**4 cr.**

Morphology, taxonomy, evolution and life histories of spore dispersing vascular plants, gymnosperms, and angiosperms. Comparative study of the major organs of each group. Two hrs. lecture, two 2-hr. labs. Spring. *Prerequisite:* BIOL 150.

BIOL 314 Plant Taxonomy**3 cr.**

Classification of flowering plants, gymnosperms, and ferns. Emphasis on collection, identification, and preparation of herbarium specimens. One hr. lecture, two 2-hr. labs. Spring. *Prerequisite:* BIOL 149.

BIOL 327 Comparative Anatomy**5 cr.**

Emphasis on structural relationships among fish, amphibians, reptiles, birds and mammals based on the evolution and development of organ systems. Dissection of representative chordates. Two hrs. lecture, two 3-hr. labs. Every semester. *Prerequisite:* BIOL 150.

BIOL 328 Economic Botany**3 cr.**

Study of plants and the link between plant structure and human's use of plants. Students will gain an understanding of the form and function of the plant body; plant nomenclature; history of plant use; origins of economically important plants; use of flowers and fruits for food and other purposes; use of roots, stems and leaves for food and other purposes. One hr. lecture, one 4-hr. lab. Spring, odd-numbered years. *Recommended:* BIOL 128, 149 and 150.

BIOL 334 General Animal Behavior**3 cr.**

Behavior of animals from an evolutionary approach. Research project required. Three hrs. lecture. Spring, odd-numbered years. *Prerequisite:* BIOL 150 or permission of instructor.

BIOL 340 General Ecology**4 cr.**

Environmental relationships of plants and animals. Field laboratory experience. Measuring environmental variables in terrestrial and aquatic ecosystems. Two hrs. lecture, one 4-hr. lab. Fall and summer. Not open to students who have credit for former BIOL 405. *Prerequisite:* BIOL 150, CHEM 102 (or CHEM 101 and permission of the instructor), MATH 209.

BIOL 350 Genetics**3 cr.**

Laws and molecular basis of inheritance. Genetic patterns and changes at the molecular, organismal, and population levels. Three hrs. lecture. Spring. *Prerequisite:* BIOL 150; CHEM 102; MATH 209. *Recommended:* BIOL 304 and 310; CHEM 301.

BIOL 401 Genetics Laboratory**1 cr.**

Techniques of collection and analysis of genetic data, including molecular, chromosomal, Mendelian, and population genetics. One 2-hr. lab. Spring. *Prerequisite or corequisite:* BIOL 350.

BIOL 402 Evolution**3 cr.**

Theories, evidences, and mechanisms of evolution. Three hrs. lecture. Variable. *Prerequisite:* BIOL 150.

BIOL 404 Histology**4 cr.**

Microscopic structure and function of the tissues and selected organs of vertebrates. Basic laboratory preparative techniques and tissue recognition. Two hrs. lecture, two 2-hr. labs. Spring, even-numbered years. *Prerequisites:* BIOL 150; CHEM 101.

BIOL 406 Ornithology**4 cr.**

Anatomy, physiology, behavior, ecology, and evolution of birds. Laboratory emphasis on identification of regional birds at the species and family level. Two hrs. lecture, one 4-hr. lab. Binoculars required. Spring. *Prerequisite:* BIOL 149.

BIOL 407 Biological Systematics**3 cr.**

Principles, concepts, and methodologies used in systematic biology. Methods for reconstructing the evolutionary relationships of plant and animal taxa (including phenetic and cladistic analyses). Procedures for description, classification, and analysis of the earth's biodiversity. Three hrs. lecture. Spring, odd-numbered years.

BIOL 410 Plant Diseases**3 cr.**

Nature, cause and control of disease in plants. Plant pathogens: nematodes, viruses, bacteria and fungi in greenhouse, field and forest plants. Laboratory emphasis on identification and preparation of specimens according to phytopathological principles. Two hrs. lecture, one 2-hr. lab. Spring, odd-numbered years. *Prerequisite:* BIOL 150.

BIOL 411 Invertebrate Zoology**4 cr.**

Structure, physiology, life history, and natural history of invertebrate groups. Emphasis on local fauna. Two hrs. lecture, two 2-hr. labs. Spring. *Prerequisite:* BIOL 150.

BIOL 412 General Parasitology**4 cr.**

Principles of parasite structure, function, life cycles and host-parasite relationships. Two hrs. lecture, two 2-hr. labs. Fall, even-numbered years. *Prerequisites:* BIOL 150; CHEM 102.

BIOL 414 Quantitative Analysis of Vertebrate Populations 3 cr.
A survey of quantitative techniques used to describe, analyze, and model wildlife population phenomena and interactions between populations. Three hrs. lecture. Spring. *Prerequisites:* MATH 120 or a course in calculus, MATH 209, BIOL 150.

BIOL 417 Ichthyology 3 cr.
The study of fishes, with emphasis on structure and function, development, behavior, ecology, and systematics. Two hrs. lecture, one 2-hr. lab. Fall. *Prerequisite:* upperclass standing in biology or wildlife/fisheries management.

BIOL 420 Fish Management and Culture 3 cr.
Contemporary problems in fisheries management. The study of fish culture; alternatives of commercial harvest and culture. Field trips. Three hrs. lecture. Spring. *Prerequisite:* senior or graduate standing; MATH 209 or permission of instructor.

BIOL 421 Sample Design and Analysis of Plant Communities 3 cr.
Ecology of plant communities in the mid-Atlantic; plant community concepts and attributes; environmental factors influencing the distribution and abundance of plants: light, temperature, fire, soil, water; methods of sampling vegetation; quantitative analysis of vegetation data; multivariate methods of data interpretation including classification and ordination; collection and interpretation of field data; emphasis on modern computer methods. Two hrs. lecture, one 3-hr. lab. Fall. *Prerequisites:* BIOL 314, BIOL 340.

BIOL 422 Herpetology 3 cr.
The structure, behavior, ecology, evolution, and taxonomy of amphibians and reptiles. Laboratory emphasis on identification, anatomy, and ecology of local species; techniques of collecting, estimating population sizes, home ranges. Two hrs. lecture, one 3-hr. lab. Spring. *Prerequisite:* BIOL 150.

BIOL 423 Mammalogy 4 cr.
The structure, taxonomy, behavior, ecology, evolution and public health significance of mammals, and history of the science of mammalogy. Laboratory emphasizes anatomy, identification, capture techniques, habitat analysis, and home-range and population characterization. Three hrs. lecture, one 3-hr. lab. Fall. *Prerequisite:* BIOL 150.

BIOL 425 Forest Science 3 cr.
Forest resources, soils, and ecology. Silviculture: cutting methods, stand improvement, reforestation, genetic tree improvement. Forest protection, utilization; measuring, harvesting, and developing forest products. Forest management and administration. Forests of Maryland. Forest research; world resources. Two hrs. lecture, one 2-hr. lab. Fall. *Prerequisite:* upperclass or graduate standing.

BIOL 426 Vertebrate Zoology 4 cr.
The biology of vertebrates: origin, evolution, classification, structure, ecology, reproduction. Identification of regional examples. Three hrs. lecture, one 2-hr. lab. Spring. *Prerequisite:* BIOL 150.

BIOL 428 Ethnographic Field Techniques 3 cr.
Practical training and experience using ethnographic field methods. Introduction to methods ethnographers use including mapping, unobtrusive observation, participant observation, ethnographic and life history interviewing, design and implementation of surveys and questionnaires, and an introduction to participatory research methodologies. A project component is included in the course. Three hrs. lecture. Spring, even-numbered years. *Prerequisites:* BIOL 128 or permission of the instructor. *Ethnobotany Capstone.*

BIOL 430 Introductory Limnology 4 cr.
Inland waters; physical, chemical, and biological aspects. An overview of hydrobiology. Laboratory emphasis on basic analysis of data from aquatic environments. Two hrs. lecture, two 2-hr. labs. Fall. *Prerequisite:* BIOL 340.

BIOL 435 Molecular Biology 4 cr.
Modern molecular concepts and techniques such as molecular cell function, DNA replication, PCR, protein synthesis, restriction enzyme analysis, DNA sequencing and DNA fingerprinting. Two hrs. lecture, two 2-hr. labs a week. Spring. *Prerequisite:* BIOL 304.

BIOL 436 Electron Microscopy for Biologists 4 cr.
Principles and techniques of electron microscopy; thin and thick sectioning, positive staining. Use of the transmission and the scanning electron micro-

scopes for animal and plant tissues, micro-organisms, and particulates. One hr. lecture, two 3-hr. labs. Spring, odd-numbered years. Enrollment limited to 6, preference to students with an active research project. *Prerequisites:* BIOL 310, PHYS 216, CHEM 302; cumulative G.P.A. 3.0; permission of instructor.

BIOL 437 Molecular Biology Seminar 1 cr.
Current topics in molecular biology presented by students, faculty, and invited speakers coupled with analysis and discussion. Fall. *Prerequisites:* senior standing; BIOL 435 or permission of instructor. *Biotechnology Capstone.*

BIOL 438 Biotechnology Lab 3 cr.
Advanced techniques in molecular biology. Topics vary depending on instructors. Topics may include cell culture methods, PCR and DNA sequencing, immunocytochemistry, electrophoretic separation and analysis. Required for biotechnology concentration. One 1-hour lecture and 2 two-hour labs a week. Variable. *Prerequisites:* junior or senior standing; BIOL 435.

BIOL 439 Environmental Toxicology 3 cr.
Interdisciplinary study of the major classes and properties of pollutants, ecotoxicology testing methods and their effects on living organisms and the ecosystem. Two hrs. lecture, two hrs. lab. Variable. *Prerequisites:* BIOL 149 and BIOL 150.

BIOL 440 Developmental Biology 4 cr.
Classical and modern study of processes producing structural and functional changes during the development of plants and animals. Three hrs. lecture, two hrs. lab. Variable. *Prerequisites:* BIOL 149 and BIOL 150.

BIOL 445 Immunology 4 cr.
Introduction to the complex network of cells and soluble mediators that recognize and react to substances foreign to the individual. Principles of immunity, techniques resulting from the study of this system, and pathologies resulting from its malfunction. Two hrs. lecture, two 2-hr. labs. Fall. *Prerequisite:* BIOL 304 and BIOL 435.

BIOL 450 Ecology and Management of Wildlife Populations 3 cr.
Study of the factors that determine the distribution and abundance of wildlife populations and current management practices used to manipulate wildlife populations. Two-three field trips will be used to gain knowledge of regional management practices. Three hrs. lecture. Fall. *Prerequisites:* BIOL 340, and one from 406, 423 or 426.

BIOL 460 Forestry Field Practice 3 cr.
A field-oriented overview of basic forestry. Includes field dendrology, silvics, elements of surveying and mapping, orienteering, log scaling, silviculture, timber cruising, and wildlife techniques. Numerous field trips to regional forests. Summer Session. 1 cr. lecture, 2 cr. lab. *Prerequisites:* BIOL 305, BIOL 425.

BIOL 465 Environmental Health 3 cr.
Investigation of the relationship between human exposure to environmental pollutants and resultant adverse health effects. Consideration of epidemiology, exposure assessment, risk assessment and risk management. Variable. Also offered as GEOG 465. *Prerequisite:* completion of two laboratory science courses.

BIOL 484 Field Experiences in Ethnobotany and Ecology 3 cr.
Unique field course where students gain practical training and experience using ecological and ethnographic field methods. Exploration of environmental impact issues is also part of the course. A research or service learning project is required. Additional travel fees may apply. Even-numbered January Intersessions. *Prerequisite:* permission of instructor.

BIOL 490 Special Topics in Biology 2 to 4 cr.
A "one time only" course on a special topic selected by the instructor. Variable. Repeatable on a different topic. *Prerequisite:* permission of instructor.

BIOL 492 Wildlife-Fisheries Seminar 1 cr.
Current topics in Wildlife and Fisheries presented by students, faculty, and invited speakers, coupled with analysis and discussion. For majors in wildlife & fisheries. Variable. *Prerequisite:* junior, senior or graduate standing in biology or wildlife/fisheries. *Wildlife & Fisheries Capstone.*

BIOL 494 Field Experiences in Biological Sciences 2 to 6 cr.

Work experience with a federal, state or private agency or industry related to the student's major. Faculty sponsor, project approval, and final report by the student required. Variable. *Prerequisites: biology, wildlife & fisheries, or interpretive biology and natural history majors only; junior or senior standing. Interpretive Biology & Natural History and Biology (Environmental Science concentration) Capstone.*

BIOL 496 Seminar in Biology 1 cr.

Current topics in biology presented by students, faculty and invited speakers, coupled with analysis and discussion. Variable. *Prerequisite: senior standing. Capstone for Biology and Biology Pre-Health Professions option.*

BIOL 497 Readings in Biology 1 cr.

Discussion of readings on selected topics. One period per week. Repeatable to 2 credits. Variable. *Prerequisites: junior or senior standing, biology major or minor, permission of the instructor, completion of request form before registering.* (The department allows only a total of 2 credits in the readings courses 497 and/or 498.)

BIOL 498 Honors Program — Readings in Biology 1 cr.

Discussion of readings on selected topics. One period per week. Repeatable to 2 credits. Variable. *Prerequisites: senior standing, biology major, 3.0 average in major and completion of request form before registering.* (The department allows only a total of 2 credits in the reading courses 497 and/or 498.)

BIOL 499 Special Problems in Biology 2 or 3 cr.

Experimental research directed by a staff member. Variable. *Prerequisites: 20 credits in biology, junior or senior standing, permission of instructor, approval of the Department Chair, completion of request form before registering.*

Business Administration**BUAD 100 Introduction to Business** 3 cr.

Introduction to the internal and external environment of contemporary business and a survey of basic concepts, principles, and practices of business organizations. Basic business terminology and concepts for beginning students seeking an introduction to the business world or assistance in making career decisions. Does not count towards business or accounting majors. Every semester.

BUAD 105 Professional Development I 2 cr.

Introduction to the professional aspects of a career in one of the majors or concentrations offered by the College of Business. Graded Pass/Fail. Strict attendance policy. Every semester.

BUAD 330 International Business 3 cr.

Introduction to foreign commerce; survey of the environmental, economic, political and social constraints on doing business abroad; discussion of issues and problems facing managers when firms do business with and within foreign countries. Fall. *Prerequisite: 42 credits.*

BUAD 400 Professional Development II 1 cr.

Provides professional advice for students ending their academic careers and getting ready to embark on professional careers. BUAD 400 is a requirement for graduation with a degree from the College of Business. Graded Pass/Fail. Strict attendance policy. Every semester. *Prerequisite: 100 credits.*

BUAD 499 Independent Study in Business Administration 1 - 3 cr.

Research and report on a specific topic not covered by regularly rostered courses. Topic will be defined by the student in conjunction with faculty sponsor. Proposals must be approved prior to registration. Course may be repeated for a maximum of 4 credits. Every semester. *Prerequisites: 18 credits of business administration course work, 90 credits and permission of department chair.*

Business Law**BLAW 291 Legal Environment of Business** 3 cr.

The workings and importance of legal institutions; the law as a system of social thought and social action. The analysis and study of the law of contracts, agency, employment, negotiable instruments, real property, personal property, sales and insurance. Credit cannot be earned for both BUAD 291 and BLAW 291. Every semester. *Prerequisite: 30 credits.*

Business Management Information Systems

You cannot receive credit for a both a BMIS course and the same course formerly labeled BUAD.

BMIS 320 Advanced Computer Applications in Business 3 cr.

Managerial applications of the microcomputer most often encountered in business. Word processing for report writing, spreadsheets for financial modeling, graphics for presentations, and managerial data base applications using commercial programs. Every semester. *Prerequisite: COSC 100/110 or COSC major.*

BMIS 455 Management Information Systems 3 cr.

Relation of MIS to the management functions of planning, control, and decision making. Concepts that underlie MIS: systems management, databases, computers, telecommunications, and general systems design and implementation. Fall. *Prerequisites: MGMT 351 and BMIS 320.*

Chemistry**CHEM 100 Chemistry and Society** 4 cr.

Examines the modes of research, the development of modern chemical principles, and the application and subsequent impact of these developments on society. Not intended for natural science majors. Three hrs. lecture, one 2-hr. lab. Every semester. *GEP Group C.*

CHEM 101 General Chemistry I 4 cr.

Atomic and molecular structure, theories of covalent and ionic bonding, chemical reactions, states of matter, gas laws, solutions, reaction rates, stoichiometry, and thermochemistry. Three hrs. lecture, one 3-hr. lab. Every semester. *Prerequisites: C or better in CHEM 103 or placement at Chemistry Level 2 or higher and Math Level II or higher. Corequisite: MATH 102 or permission of instructor. GEP Group C. Note: for information on Chemistry Level placement see Department Chair.*

CHEM 102 General Chemistry II 4 cr.

Acid-base concepts, equilibria, thermodynamics, electrochemistry, reaction rates, coordination compounds, and organic, nuclear, and descriptive chemistry. Three hrs. lecture, one 3-hr. lab. Every semester. *Prerequisite: CHEM 101.*

CHEM 103 Foundations of Chemistry 3 cr.

Introduction to fundamental concepts, methodology and nomenclature of chemistry, including data analysis, atomic structure, inorganic compounds, chemical equations and reactions, stoichiometry, states of matter, solutions. No laboratory. Every semester. *Prerequisite: Math Level I. Corequisite: DVMT 100.*

CHEM 110 Modern Chemistry and Society 3 cr.

Non-mathematical approach to chemical principles, modes of chemical research, current applications, effects on the environment, and impact on society. For non-science majors. Three hrs. lecture. Variable.

CHEM 111 Modern Chemistry and Society Laboratory 1 cr.

Non-mathematical laboratory experiments applicable to modern chemistry. For non-science majors. One 2-hr. lab. Variable. *Prerequisite or corequisite: CHEM 110.*

CHEM 113 Honors: Chemistry and Society 4 cr.

Examines the models of research, the development of modern chemical principles, and the application and subsequent impact of these developments on

society. Both reading and writing components will be more challenging than those in CHEM 100. Credit cannot be earned for both CHEM 100 and CHEM 113. Three hrs. lecture, 2 hrs. lab and 1 hr. recitation. Spring. *Prerequisite:* Admission to Honors Program or permission of instructor. GEP Group C.

CHEM 133 General Chemistry for Engineers 3 cr.
A math-intensive lecture-only general chemistry course designed for engineering students. Topics include intermolecular forces, thermodynamics, chemical kinetics, catalysis, chemical equilibria, acid-base equilibria, electrochemistry and nuclear chemistry. Fall. *Prerequisites:* CHEM 101 or permission of instructor.

CHEM 300 Computational Techniques in Chemistry 2 cr.
Introduction to and application of the fundamental methods, tools and techniques essential to solve chemical problems. Regular topics include statistical, mathematical and computational tools; data analysis, and use of chemical sources. Additional topics explored will augment student needs and supplement area of current interest in chemistry. One hour lecture, one 2-hr lab. Fall. *Prerequisites:* 12 cr. in Chemistry, MATH 226 or equivalent, or permission of the instructor.

CHEM 301 Organic Chemistry I 5 cr.
Chemistry of the compounds of carbon. Classes and nomenclature of compounds, structure, reactions, mechanisms, spectroscopy, and stereochemistry. Three hrs. lecture, one 4-hr lab. Fall. *Prerequisites:* CHEM 101 and 102 or equivalent.

CHEM 302 Organic Chemistry II 5 cr.
Continued study of compounds of carbon. Three hrs. lecture, one 4-hr lab. Spring. *Prerequisite:* CHEM 301 or equivalent.

CHEM 320 Quantitative Analytical Chemistry 4 cr.
Theory, methods, and treatment of data pertaining to chemical analysis. Gravimetric, volumetric, potentiometric, electroanalytical, and spectrophotometric applications in the laboratory. Three hrs. lecture, one 3-hr lab. Fall. *Prerequisites:* CHEM 101 and 102; MATH 120 or equivalent. *Corequisite:* PHYS 215 or equivalent, or permission of instructor.

CHEM 411 Advanced Inorganic Chemistry 4 cr.
Covers the application of symmetry operations and group theory in order to elucidate the bonding and spectroscopy of transition metal complexes. Selected topics in inorganic reaction mechanisms, photochemistry, catalysis and bio-inorganic chemistry will then be examined using these theoretical approaches. Three hrs. lecture, one 3-hr. lab weekly. Spring, even-numbered years. *Prerequisite or corequisite:* CHEM 441 or permission of instructor.

CHEM 420 Environmental Chemical Analysis 4 cr.
Explores applications of wet chemical, electroanalytical (potentiometric and amperometric), spectroscopic (UV-Vis, spectrofluorometry and AA) and chromatographic (HPLC, GC, GCMS, TLC) techniques for standard and trace analyses of water, soil, and tissue materials. Emphasis on application of standard protocols, development of experimental technique and sample preparation. Two 3 hr. lectures/lab. Spring, even-numbered years. *Prerequisites:* CHEM 101 and CHEM 102.

CHEM 421 Instrumental Analysis 4 cr.
Theory and applications of modern instruments for chemical analysis. Electronics, spectroscopic, electrochemical, and chromatographic techniques. Laboratory use of NMR, IR, UV, AA, and GC instruments. Three hrs. lecture, one 3-hr. lab. Spring. *Prerequisite:* 16 cr. in chemistry including CHEM 320, 441, and 445, or permission of instructor.

CHEM 425 Pharmacological Ethnobotany 3 cr.
Study of the basic principles of pharmacology with particular emphasis on drugs of botanical origin. Three hours lecture. Spring, even numbered years. *Prerequisite:* CHEM 302.

CHEM 438 Advanced Organic Chemistry 3 cr.
Structure and bonding in organic compounds, reactivity, mechanisms of reactions, and application to reaction types. Three hrs. lecture. Spring, odd-numbered years. *Prerequisites:* CHEM 301 and 302.

CHEM 441 Physical Chemistry Lecture I 3 cr.
Theory and applications of the principles of physical chemistry. Equilibria, gas laws, thermodynamics, electrochemistry, structures, and properties. Three

hrs. lecture. Fall. *Prerequisites:* 16 cr. in Chemistry from the following: CHEM 101, 102, 301, 302, 320; MATH 238; and PHYS 215 and 216 or equivalent or permission of instructor.

CHEM 442 Physical Chemistry Lecture II 3 cr.
Quantum theory, statistical thermodynamics, chemical dynamics, spectroscopy, and structures. Three hrs. lecture. Spring. *Prerequisite:* CHEM 441.

CHEM 445 Physical Chemistry Laboratory I 1 cr.
Experimental physical chemistry. One 3-hr. lab. Fall. *Prerequisite or corequisite:* CHEM 441.

CHEM 446 Physical Chemistry Laboratory II 1 cr.
Continuation of CHEM 445. One 3-hr. lab. Spring. *Prerequisite or corequisite:* CHEM 442.

CHEM 455 Biochemistry I 3 cr.
The chemistry and metabolism of biological compounds, biochemical thermodynamics, enzyme mechanisms, and kinetics. Three hrs. lecture. Fall. *Prerequisites:* CHEM 301 and 302; BIOL 149 or permission of the instructor.

CHEM 456 Biochemistry Laboratory 1 cr.
Qualitative and quantitative laboratory experiments on the nature and properties of biological materials. One three-hr. lab. Spring. *Prerequisite or corequisite:* CHEM 455.

CHEM 457 Biochemistry II 3 cr.
A continuation of Biochemistry I. Metabolic processes and their conservation among widely divergent organisms. Cell processes, their interrelation and regulation. Biochemical techniques and their applications to a variety of current biological problems. Three hrs. lecture. Spring. *Prerequisite:* CHEM 455 or equivalent.

CHEM 460 Environmental Chemistry 3 cr.
An investigation into the chemical nature of the environment. Development of the chemical interactions found in the atmosphere, hydrosphere, lithosphere, and biosphere. Energy and energy usage also discussed. Three hrs. lecture. Spring, odd-numbered years. *Prerequisites:* CHEM 101, 102, and any of the following: BIOL 430, GEOG 432, CHEM 320 or 420.

CHEM 490 Selected Topics in Chemistry 1 to 3 cr.
Specialized topics such as theoretical organic chemistry, spectroscopy, photochemistry, quantum chemistry, or stereochemistry. Repeatable on a different topic. Variable. *Prerequisite:* 24 credits in chemistry or permission of instructor.

CHEM 491 Seminar in Chemistry 1 cr.
Current topics in chemistry presented by students, faculty, and invited guests. One period weekly. Required for majors. Fall. *Prerequisite:* junior or senior standing.

CHEM 492 Capstone Experience 1 cr.
An integrated senior-year experience that requires students to use their accumulated skills, knowledge and experiences to present their own research and a portfolio demonstrating important laboratory skills. Required for all Chemistry Majors. Every semester. *Prerequisites:* senior status, CHEM 491 and CHEM 493 or permission of instructor.

CHEM 493 Advanced Chemical Research 1 to 8 cr.
Original student investigations in analytical, inorganic, physical, organic, and biochemistry involving both library and laboratory work, planned and executed under faculty guidance. A formal, publication-quality report and a seminar presentation are required. Research projects must be approved by the department and the instructor prior to registration in the course. Repeatable for credit. *Prerequisite:* CHEM 441, junior standing in chemistry, and permission of department chair.

CHEM 495 Internship in Chemistry 1 to 6 cr.
Guided work experience. Work must be directly related to academic program. Grade P/F. Variable. *Prerequisites:* C or better in Organic Chemistry I (CHEM 301); in good academic standing; submission of Agreement Form to Department Chair prior to registering, departmental approval. May not be used to satisfy the requirements for a minor in chemistry.

CHEM 499 Special Problems in Chemistry 1 to 6 cr.
Methods and techniques of basic research. Repeatable to 6 credits. Every semester. *Prerequisite:* permission of department chair.

Communication Studies

You may not receive credit for both a CMST course and the same course formerly labelled CMAT.

CMST 100 Communication Practicum **½ to 1 cr.**
Entry level work experience in applying communication theory. Opportunities announced in Undergraduate Schedule Booklet every semester. Repeatable to 4 credits; may not be applied to fulfillment of major requirements. Variable. *Prerequisite: permission of instructor.*

CMST 102 Introduction to Human Communication **3 cr.**
Fundamental theory and practice of human communication in dyadic, small-group, and public situations. Not open to students who have credit for former CMAT 102. Every semester.

CMST 112 Honors: Introduction to Human Communication **3 cr.**
Fundamental theory and practice of human communication in dyadic, small-group, and public situations. Student-led discussions, activities. Not open to students who have credit for former CMAT 112. Variable. *Prerequisite: admission to Honors Program or written permission of instructor.*

CMST 122 Introduction to Public Speaking **3 cr.**
Introduction to, and guided application of, basic principles which underlie effective public speaking and listening in informative, persuasive, and ceremonial speeches. Spring.

CMST 132 Introduction to Interpersonal & Small Group Communication **3 cr.**
Development of critical thinking, problem-solving, and relational skills in one-on-one and small group settings. Fall, even-numbered years.

CMST 215 Small Group Communication **3 cr.**
Principles and practice of communication in small, task-oriented groups. Interaction of task and social dimensions. Problem-solving groups and decision-making principles and methods. Spring.

CMST 225 Interviewing **3 cr.**
Communication in informational, appraisal, employment, and persuasive interviews. Selecting and structuring questions to achieve specific objectives. Fall. *Prerequisite: CMST 102/112.*

CMST 300 Interpersonal Communication **3 cr.**
Study of the face-to face dyad as the fundamental human communication relationship. Implications for other communication modes and settings. Not open to students who have credit for former CMAT 300. Every semester, except fall of odd-numbered years. *Prerequisite: CMST 102/112 or CMST 132 or permission of instructor.*

CMST 302 Argumentation and Advocacy **3 cr.**
Analysis, construction, and communication of logical arguments in a variety of decision-making contexts. Spring, odd-numbered years. *Prerequisite: CMST 102/112 or CMST 122 or permission of instructor.*

CMST 312 Language Behavior and Communication **3 cr.**
Processes of human language that enhance or limit thought and expression; development of language and symbolizing; relationship of thought to language; effects of language behavior. Every semester, except fall of even-numbered years. *Prerequisite: CMST 102/112 or permission of instructor.*

CMST 322 Presentational Communication **3 cr.**
Theory and practice of orally presenting ideas to reach audience-centered goals. Use of technology in activities common to communication-related careers. Not open to students who have credit for former CMAT 322. Fall, even-numbered years. *Prerequisites: CMST 102/112 or CMST 122, or permission of instructor.*

CMST 335 Organizational Communication **3 cr.**
Theory, practices and analysis of communication in the context of complex organizations. Agendas, briefings, meetings, conferences, presentations. Assessment and intervention techniques. Spring, even-numbered years. *Prerequisite: Permission of instructor.*

CMST 422 Seminar in Communication Analysis **3 cr.**
Criteria and methods of analysis of significant public discourse. Application to traditional and contemporary modes of public communication. Not open to students who have credit for former CMAT 422. Fall, even-numbered years. *Prerequisite: 9 hrs of Communication Studies Core Courses, or permission of instructor.*

CMST 451 Seminar in Communication Theory **3 cr.**
Examination of classical and contemporary concepts and methods by which the human communication process is explained. Application to realistic settings. Not open to students who have credit for former CMAT 451. Fall, odd-numbered years. *Prerequisite: 9 hrs of Communication Studies Core Courses, or permission of instructor.*

CMST 485 Issues and Responsibilities of Communication **3 cr.**
Study of ethical perspectives and legal constraints on communication as practiced in interpersonal, public, mass media, and artistic situations. Fall.

CMST 490 Special Topics in Communication Studies **3 cr.**
Study, research or applied experience related to an announced selected topic. Variable. *Prerequisite: permission of instructor.*

CMST 492 Internship Project **3 cr.**
Academic component of internship experience, in conjunction with CMST 495. Graded A through F. Summer. *Corequisite: CMST 495. Capstone.*

CMST 494 Communication Studies Practicum **1 to 3 cr.**
Supervised field experience for Communication Studies majors. Participation in the communication operations of a commercial, governmental, or educational organization. Repeatable but only 3 credits may be applied for the completion of the major. Every semester. *Prerequisite: Junior/Senior standing, a minimum of 12 credits in Communication Studies courses, and permission of instructor. Capstone.*

CMST 495 Internship in Communication **6 or 12 cr.**
Experiential component of internship: guided work experience directly related to student's academic program. Full-time interns register for 12 credits in 495, 3 credits in 492, and may not enroll in any other courses. Part-time interns must register for 6 credits in 495 and 3 credits in 492. Graded P/F. Summer. *Prerequisites: Junior/Senior status, not on probation; declared major in communication studies, minimum 12 cr. in communication studies, and 2.5 GPA in major; Internship Agreement Form approved by department internship director before registering.*

CMST 499 Directed Study **1 to 6 cr.**
Intensive study through faculty-directed projects or papers. Hours arranged. Variable. *Prerequisite: permission of Department Chair.*

Computer Science

COSC 100 Introduction to Computer Science **3 cr.**
A survey of the historical, technological, and societal aspects of computing with a practical component involving contemporary software applications. Topics include past and future computing, hardware, software, computer systems, data representation and processing, and social and ethical concerns of computing. Practical applications include word processors, spreadsheets, graphics packages, Email, Internet, and web page development basics. Every semester. *Tech. Fluency.*

COSC 101 The Discipline of Computer Science **3 cr.**
Survey of the discipline of computer science covering history, hardware development, number systems, Boolean logic, algorithm development, programming languages, computability, artificial intelligence, introduction to programming, social implications, and ethics. Every semester.

COSC 110 Honors: Introduction to Computer Science **3 cr.**
A survey of the historical, technological, and societal aspects of computing with a practical component involving contemporary software applications and a programming component using a modern, high-level language. Topics include past and future computing, hardware, software, algorithms, computer systems, data representation and processing, and social and ethical concerns of computing. Practical applications include word processors, spreadsheets, programming languages, graphics packages, Email, Internet

and Web page development basics. Credit cannot be earned for both COSC 100 and COSC 110. Fall. *Prerequisite: acceptance into the Honors Program or permission of instructor. Tech. Fluency.*

COSC 120 Introduction to Cyberspace 3 cr.

Survey of Cyberspace including all Internet services, communications and networking, Internet protocols, file types, multimedia and a summary of Web programming techniques. The practical component covers e-mail, chat, teleconferencing, file transfer, newsgroups, mailing lists, and the World Wide Web. For a semester project, you will search for and develop a basic Web site presenting Internet resources in your major discipline; this site should be a valuable personal reference that can be updated throughout your education and career. Every semester.

COSC 130 Introduction to Programming 3 cr.

Introduction to visual object-oriented computer programming; development of software stages, using Universal Modeling Language (UML); object-oriented concepts including object representation, and modularization. Every semester.

COSC 220 Introduction to Software Applications 3 cr.

Survey of hardware, introduction to software used in business applications, microcomputer operating system, graphics, word processing, spreadsheet, database management systems, and network communication software for microcomputers. Every semester. *Prerequisite: Grade of C or better in COSC 100 or COSC 110.*

COSC 240 Computer Science I 4 cr.

Introduces the fundamental concepts of programming: Simple data types, control structures, array and string data structures, algorithms, debugging techniques and the social implications of computing. Emphasizes good software engineering principles and developing fundamental programming skills in the context of a language that supports the object-oriented paradigm. Three hours lecture; two hour lab. Every semester. Credit may not be earned for both COSC 200 and COSC 240. *Prerequisites: Grade of C or better in COSC 101 and test at level 3 or above on mathematics placement test or grade of C or better in MATH 102 or corequisite enrollment in MATH 102.*

COSC 241 Computer Science II 4 cr.

Continues introduction to the methodology of programming from an object-oriented perspective. Design and implementation of data structures used in programming such as linked lists, stacks and queues. Internal sorting and searching. Recursion. Performance analysis of algorithms. Three hours lecture; two hour lab. Every semester. Credit may not be earned for both COSC 201 and COSC 241. *Prerequisite: Grade of C or better in COSC 240.*

COSC 300 Structured Systems Analysis and Design 3 cr.

Analysis and design of information processing systems. Topics include system development life cycle: study phase, design phase, development phase, operation phase. Student will design and analyze a simple system. Spring. *Prerequisite: Grade of C or better in COSC 241.*

COSC 305 Computer Ethics 3 cr.

Ethical issues related to computing. Includes topics such as responsibility of the computing professional, computerized crime, technology and employment, equitable access to computing, national databases and privacy, software ownership, and responsibilities of the computing profession. Every semester. *Prerequisite: Grade of C or better in COSC 240.*

COSC 310 Data Structures and File Organization 3 cr.

Design and implementation of advanced data structures for computer applications. Topics include trees, graphs, external sorting, hash table and file organization management. Research paper and presentation required. Fall. *Prerequisites: MATH 236 and a grade of C or better in COSC 241.*

COSC 320 Business Programming 3 cr.

Design and implementation of business programming using COBOL. Writing programs to generate reports from sequential data files. Report formatting and paging techniques; edited PIC clauses; control breaks, sorting table and table processing, sequential, indexed, and relative files. Every semester. *Prerequisite: Grade of C or better in COSC 241.*

COSC 325 Software Engineering 3 cr.

Techniques and methodologies of software engineering. Topics include quality assurance, software protection and security. Every semester. *Prerequisite: Grade of C or better in COSC 241.*

COSC 330 Web Design and Development 3 cr.

A practical study of the design and development of Web sites, covering design principles, authoring applications, authoring languages, hypermedia, techniques for user interactivity, and Web programming. The practical component gives hands-on experience with each of these topics and introduces scripting with JavaScript; these lab exercises provide the expertise to complete, as a course project, a Web site presenting an advanced aspect of Web technology that the student researches. Every semester. *Prerequisite: Grade of C or better in COSC 120 or permission of the instructor.*

COSC 331 Fundamentals of Computer Networks 3 cr.

An introduction to computer networking from the perspective of the Open Systems Interconnection (OSI) Reference Model. Topics to include the physical layer, the data link layer, the medium access control sublayer, the network layer, the transport layer, the application layer, and network security. Every semester. *Prerequisites: MATH 236 and a grade of C or better in COSC 240.*

COSC 335 Network Architecture Design 3 cr.

An introduction to the design of networks. Topics include network architectures, protocols, Ethernet LANS, token ring LANS, established networks, network relays, repeaters, bridges, routers, network administration, inter-network design, and advanced network architectures. Fall. *Prerequisite: Grade of C or better in COSC 241.*

COSC 345 The Internet and Multimedia Communications 3 cr.

An introduction to protocols and applications of multimedia communications. Topics include multimedia networks, compression methods, network protocols, end to end multicast, and multimedia application. Variable. *Prerequisite: Grade of C or better in COSC 365.*

COSC 350 Computer Organization and Assembly Language 3 cr.

An introduction to the logical architecture of the computer and to machine organization fundamentals such as bus structures and microcode - as viewed by the assembly language programmer. Every semester. *Prerequisite: Grade of C or better in COSC 240.*

COSC 365 Digital Logic and Computer Design 4 cr.

Basic switching theory. Design and analysis of combinational logic circuits and synchronous sequential systems. Minimization techniques, Boolean algebra, Karnaugh maps, and number systems. Programmable logic and basic computer architecture. Register transfer language. Memory decoding, microprogramming, and bus structure and operation. Detailed study of an actual simple minicomputer or microcomputer system. Every semester. *Prerequisite: Grade of C or better in COSC 241. COSC 350 recommended.*

COSC 380 Computer-Based Information Systems 3 cr.

Computer information systems from a system planning perspective. Topics include digital communication evaluation, distributed resources, distributed processing and decision-making models. Several case studies are analyzed. Fall. *Prerequisite: Grade of C or better in COSC 240.*

COSC 390 Topics in Modern Programming Languages 1 to 3 cr.

A modern programming language will be covered. Topics include the syntax and semantics of the language as well as the language programming environment. Example programs will deal with applications particularly suited to the chosen language. Students will be required to design and implement a major programming project. Variable. *Prerequisite: Grade of C or better in COSC 241.*

COSC 415 Computer Interfacing 3 cr.

Basic digital computer interfacing, combining digital electronics, programming, and computer architecture. Topics include transducers, electronic amplification, D/A and A/D conversion, data sampling, data storage and retrieval, laboratory exercises in discrete and integrated software, survey of commercially available interface devices. Two hrs. lecture and 3 hrs. lab per week. Variable. *Prerequisites: PHYS 216 or PHYS 262 and PHSC 315 or PHYS 332, grade of C or better in COSC 240, or permission of the instructor. Also offered as PHYS 415.*

- COSC 420 Robotics and Computer Control** 3 cr.
Introduction to the field of robotics: applications, safety, sensors, Robotics Languages Model for Computer Aided Design (CAD), speech recognition and generation. Integration of robots with artificial intelligence. Variable. *Prerequisite:* PHYS 215 or PHYS 261, Grade of C or better in COSC core classes and permission of the instructor.
- COSC 431 Secure Computing** 3 cr.
Topics include elementary cryptography, program security, security in general-purpose and trusted operating systems, database security, network security, security administration, and legal/privacy/ethical issues in computer security. Variable. *Corequisite:* COSC 460.
- COSC 435 Network Implementation and Testing** 3 cr.
An introduction to the implementation and testing of networks. Topics include OSI layers, structured cabling, network operating systems, network devices, network connections, and the network file system. Variable. *Prerequisite:* Grade of C or better in COSC 365.
- COSC 440 Database Management Systems** 3 cr.
Introduction to database management systems. Topics include database design, database models such as entity-relationship and normalization. Practical use of data definition languages and data manipulation language of a commercial database management system such as Oracle. Variable. *Prerequisite:* Grade of C or better in COSC 241.
- COSC 444 Introduction to Distributed Programming** 3 cr.
An introduction to distributed systems implementation using a distributed language. Topics include distributed architecture comparison, overview of distributed languages, creation of several distributed applications. Variable. *Prerequisite:* Grade of C or better in COSC 335.
- COSC 445 Network and Distributed System Management** 3 cr.
An introduction to the management of Network and Distributed Systems. Topics include network technologies, monitoring distributed systems, OSI management model, network management protocols, network planning, security for management, and user administration and accounting. Variable. *Prerequisite:* Grade of C or better in COSC 365.
- COSC 450 Programming Language Structures** 3 cr.
Features of existing programming languages and underlying concepts. Syntax and semantics, simple statements, grouping of statements, scopes and storage allocations, subroutines. List processing and string manipulation languages. Fall. *Prerequisite:* Grade of C or better in COSC 310.
- COSC 455 Artificial Intelligence** 3 cr.
An introduction to knowledge representation and inference, logic, semantic networks, frames and rule-based. Natural language processing; pattern recognition, pattern association and computer vision. Variable. *Prerequisite:* Grade of C or better in COSC 241.
- COSC 460 Operating Systems Concepts** 3 cr.
Process management, scheduling, time slicing, concurrency, mutual exclusion, semaphores, resource management, memory mapping, virtual systems, mass storage, file systems. Case studies of operating systems. Research paper and presentation required. Every semester. *Prerequisite:* Grade of C or better in COSC 241 and COSC 365.
- COSC 465 Computer Systems Architecture** 3 cr.
Architecture of large computing systems. Instruction set architecture and RISC. Design of high-speed arithmetic units, I/O subsystems, DMA, and channels. Interrupt structures. Horizontal vs. vertical microprogramming. Memory system hierarchy with emphasis on cache, virtual memory, and interleaving. Introduction to parallel processing and advanced architectural trends. Variable. *Prerequisite:* Grade of C or better in COSC 365.
- COSC 470 Compiler Designs and Constructions** 3 cr.
A detailed study of the concepts and techniques used in design and construction of a compiler. Topics include: lexical analysis, syntactic and semantic analysis, intermediate code generation, final code generation, and optimization techniques. Each student will be required to design and implement a functional compiler or interpreter for a given language. Spring. *Prerequisites:* Grade of C or better in COSC 310 and COSC 365.
- COSC 475 Interactive Computer Graphics** 3 cr.
Concepts of computer graphics. Terminology and programming primitives, raster vs. vector hardware, interaction devices, software packages, geometrical transformations, two-and three-dimensional viewing, hidden line and surface removal, object hierarchy. Variable. *Prerequisite:* Grade of C or better in COSC 241.
- COSC 480 Knowledge-Based Systems** 3 cr.
Concepts of knowledge-based systems with an emphasis on expert systems. Topics include production systems, building of knowledge-based systems and future trends with expert systems. Variable. *Prerequisite:* Grade of C or better in COSC 241.
- COSC 485 Theory of Computation** 3 cr.
Basic theoretical principles embodied in formal languages, automata, computability, and computational complexity. Emphasis is placed on developing formal descriptions of computers and computational processes, and practical implications of theoretical results. Variable. *Prerequisites:* Grade of C or better in COSC 310 and COSC 365.
- COSC 488 Information Technology Mgmt. Portfolio Capstone** 0 cr.
Creation of an information technology management portfolio consisting of best examples of projects, programs, and research papers that demonstrate achievement of the established learning goals for this major. Every semester. *Prerequisites:* 90 credits and completion of required FSU major courses.
- COSC 489 Capstone Course** 1 cr.
Creation of professional vita, formation of portfolio consisting of student's best examples of programs and research papers. Amalgamation of curricular concepts into a unified entity. Every semester. *Prerequisites:* Senior standing and completion of all core courses and grade of C or better in at least two required advanced courses.
- COSC 491 Seminar in Computer Science** 1 to 6 cr.
Group study of advanced topics under faculty supervision; up to 3 credits may apply to major or minor in Computer Science. Variable. *Prerequisites:* Grade of C or better in core courses and written permission of faculty supervisor. DEPARTMENTAL APPROVAL REQUIRED PRIOR TO REGISTERING.
- COSC 494 Field Experience in Computer/Information Science** 3 cr.
Work experience in industry, government, or small business providing an opportunity for practical application of academic training in computer/information science. The course requirements are: (1) A minimum of 90 hours of field experience; (2) A written report describing in detail the work performed in the field in conjunction with an oral presentation to interested faculty and students; (3) A project paper on a topic related to the work experience. Previous work experience may not be substituted for this course. More than one field experience may be completed, but the number of credits applied toward a Computer Science major is limited to 3. Every semester. *Prerequisite:* junior or senior standing and completion of the core courses in Computer Science with grade of C or better. DEPARTMENTAL APPROVAL REQUIRED PRIOR TO REGISTERING.
- COSC 499 Individual Problems in Computer Science** 1 to 6 cr.
Individual advanced projects under faculty supervision; up to 3 credits may apply to major or minor in Computer Science. Students must submit a written, clear proposal to faculty supervisor and department. This proposal must be detailed enough to describe topics, time allocation and limitation, objectives, assignments and projects. Every semester. *Prerequisites:* Grade of C or better in core courses and written permission of faculty and supervisor. DEPARTMENTAL APPROVAL REQUIRED PRIOR TO REGISTERING.

Criminal Justice

CRJU 490 Advanced Topics in Criminal Justice 1-3 cr.
Selected topics in criminal justice relating to law enforcement or corrections. Does not duplicate any other FSU course. May be repeated for credit if topics are substantially different. Variable. *Prerequisite:* POSC 324 or permission of instructor.

CRJU 494 Field Experience 6-9 cr.
Guided work experience in a criminal justice agency. Minimum 225 work hours of experience for 6 credits; 339 work hours for 9 credits. Academic component of course consists of at least one writing project and an oral presentation. Variable. *Prerequisite:* POSC 324 or course equivalent.

Dance

You may not receive credit for both a DANC course and the same course formerly labelled PHEC.

DANC 105 Improvisation 2 cr.
Exploration of spontaneous movement in response to various stimuli in solo and group settings. Two labs/week. Alternate years.

DANC 110 Dance Appreciation 3 cr.
Dance forms, dance personalities, contemporary trends in dance. Not open to students who have credit for former PHEC 135. Every semester. *GEP Group A.*

DANC 131 Ballet I 1 cr.
Basic ballet techniques and style. Not open to students who have credit for former PHEC 111. Fall.

DANC 142 Modern I 2 cr.
Fundamental skills in modern dance. Not open to students who have credit for former PHEC 211. Fall.

DANC 154 Jazz I 1 cr.
Movement techniques in jazz dance; dance composition and improvisation. Not open to students who have credit for former PHEC 112. Spring.

DANC 209 Dance Composition I 2 cr.
Exploration of movement materials through short problems dealing with rhythm, space, and dynamics. Two labs/week. *Prerequisite:* DANC 105. Alternate years.

DANC 231 Ballet II 2 cr.
Intermediate ballet techniques and terminology. Not open to students who have credit for former PHEC 113. *Prerequisite:* DANC 131 or permission of instructor. Alternate years.

DANC 242 Modern II 2 cr.
Skills in intermediate modern dance. Not open to students who have credit for former PHEC 213. *Prerequisite:* DANC 142. Alternate years.

DANC 254 Jazz II 2 cr.
Movement techniques, composition and improvisation in the jazz dance style. Not open to students who have credit for former PHEC 114. *Prerequisite:* DANC 154 or permission of instructor. Alternate years.

DANC 309 Dance Composition II 2 cr.
The second of two courses in dance composition focusing on developing skill in the creative process. Exploration of more formal elements of composition with an emphasis on form and structure. Two labs/week. *Prerequisite:* DANC 209. Alternate years.

DANC 332 Ballet III 2 cr.
Study of advanced ballet technique, vocabulary, and style. Two labs/week. May be repeated for credit. *Prerequisite:* DANC 231. Alternate years.

DANC 342 Modern III 3 cr.
Advanced modern dance techniques; modern dance styles and personalities. Three labs/week. Not open to students who have credit for former PHEC 236. *Prerequisite:* DANC 242. Alternate years.

DANC 360 Dance Repertory 2 cr.
A dance repertory workshop for the intermediate/advanced. Lecture/lab. *Prerequisite:* DANC 242 or DANC 231. Alternate years. May be repeated for credit up to six credits.

DANC 382 Dance History 3 cr.
History of theatrical dance in Western Culture and the role of dance in humankind, a thematic approach. *Prerequisite:* DANC 110. Alternate years.

DANC 408 Choreography and Production 3 cr.
Procedures for choreographing, producing, and directing dance productions. Not open to students who have credit for former PHEC 431. Alternate years. *Prerequisite:* Two credits in dance or permission of instructor.

DANC 429 Special Topics in Dance 1 to 3 cr.
Advanced analysis and practice in dance movement; varying topics. A maximum of six credits combined can be earned in DANC 429 and the former PHEC 429. Repeatable to 6 credits. Yearly. *Prerequisite:* 2 credits in dance technique or permission of instructor.

DANC 442 Modern IV 3 cr.
An advanced/professional dance technique level in modern dance based on an eclectic fusion of movement vocabulary which has evolved from the early modern dance heritage with the inclusion of the instructor's own personal aesthetic. Three labs/week. *Prerequisite:* DANC 342 or permission of instructor. Yearly. May be repeated for credit.

DANC 471 Principles of Teaching Dance 3 cr.
Theory and practice of dance instruction including methods and materials. Two lectures and one lab/week. *Prerequisite:* DANC 231 or DANC 242. Alternate years.

DANC 479 Teaching Practicum 1 cr.
Application of theory and skills acquired in DANC 471. The student, under supervision, will teach dance in an authentic setting. *Prerequisite:* DANC 471. Alternate years.

DANC 498 Senior Project 1 cr.
Individual project performed under the supervision of a faculty member; the culminating experience for the dance major. Offered as needed.

Economics

ECON 200 Basic Economics 3 cr.
Introductory survey course covering both Macro and Microeconomics designed to provide minimum competence for majors other than business, accounting, and economics. Every semester. *GEP Group D.*

ECON 201 Principles of Economics (Macro) 3 cr.
An introduction to Principles of Economics focusing primarily on the forces determining the economy-wide levels of production, employment, and prices. Examines monetary and fiscal policy and alternative views of how the economy should be managed. Every semester. *GEP Group D.*

ECON 202 Principles of Economics (Micro) 3 cr.
An introduction to Principles of Economics focusing primarily upon individual consumer and producer decision making behavior in various organized market structures; the price system, market performance, efficiency and government policy. Every semester. *Prerequisite:* ECON 201/211.

ECON 211 Honors: Principles of Macroeconomics 3 cr.
An introduction into the forces at work in the national economy including income, employment, and the monetary system. A variety of written research assignments on current topics in macroeconomics required. Credit cannot be earned for both ECON 201 and 211. Fall. *Prerequisite:* acceptance into the Honors program or permission of the instructor. *GEP Group D.*

ECON 212 Honors: Principles of Microeconomics 3 cr.
Examines markets, consumer behavior, market structures, resource pricing, income distribution, and general equilibrium. Spring. *Prerequisites:* ECON 201 or 211.

- ECON 300 History of Economic Thought** 3 cr.
The historical evolution of economic doctrines from early times to the present; the relation of economics to social issues. Views and significance of major schools of thought. Spring. *Prerequisites:* ECON 201/211 and ECON 202/212.
- ECON 301 Labor Economics** 3 cr.
The theory of labor supply and demand, labor force participation, investment in human capital, compensating wage differentials, government regulation, employment, unemployment, unionism, discrimination, wage-related income transfers and pensions. Spring. *Prerequisites:* ECON 201/211 and ECON 202/212.
- ECON 303 American Economic History** 3 cr.
Development from colonial times to the present. The industrial revolution and the impact of technological change upon such areas as transportation, agriculture, business organization, unions, the banking system, and public policy. Fall, odd-numbered years. *Prerequisites:* ECON 200; or ECON 201/211 and ECON 202/212.
- ECON 305 Managerial Economics** 3 cr.
Applications of micro-economic theory to management practices. Topics may include demand estimation and forecasting; production and cost; pricing in various market structures; and special topics in firm decision making. Spring. *Prerequisites:* ECON 201/211 and ECON 202/212; and MATH 106 or MATH 220 or MATH 236.
- ECON 306 Money and Banking** 3 cr.
The nature and functions of money, credit, banking, and the Federal Reserve System. Institutions generating the money supply; the influence of monetary and fiscal policies on economic stability and growth. Every fall. *Prerequisites:* ECON 201/211 and ECON 202/212.
- ECON 307 Government, Business, and Public Policy** 3 cr.
Economic aspects of the relation of government and business in the United States; antitrust, economic, and social regulation of business. Spring, even-numbered years. *Prerequisites:* ECON 200; or ECON 201/211 and ECON 202/212.
- ECON 309 Comparative Economic Systems** 3 cr.
Analysis of ideology and problems in different economic systems: capitalism, Marxism, and socialism. Comparisons of centrally planned and unplanned economics; free market pricing and direct controls; private enterprise and nationalized industry. Fall, even-numbered years. *Prerequisites:* ECON 201/211 and ECON 202/212.
- ECON 351 Intermediate Macro-Economics** 3 cr.
General theory, both Keynesian and post-Keynesian, of the growth of the economy as a whole. Monetary theory, fiscal policy, and review of macro-economic issues. Fall. *Prerequisites:* ECON 201/211 and ECON 202/212.
- ECON 352 Intermediate Micro-Economics** 3 cr.
Theory of consumer behavior and demand. Production and cost theory and firm behavior under varying circumstances. Distribution theory. Spring. *Prerequisites:* ECON 201/211 and ECON 202/212.
- ECON 400 International Trade** 3 cr.
An explanation of the pure theory of international trade and its application to trade policy; comparative advantage; gains from trade; tariffs, quotas, and other barriers to trade. Fall. *Prerequisites:* ECON 201/211 and ECON 202/212.
- ECON 401 International Finance** 3 cr.
The theory of international finance and its application to international monetary policy; international monetary and capital movements; the balance of payments and adjustment mechanisms; alternative exchange rate systems. Spring. *Prerequisites:* ECON 201/211 and ECON 202/212.
- ECON 404 Public Sector Economics** 3 cr.
Government taxes and expenditures for economic stability and growth; tax equity, efficiency, and incidence; government services; relationship of monetary and fiscal policies. Spring, odd-numbered years. *Prerequisites:* ECON 201/211 and ECON 202/212.
- ECON 405 Economics of Developing Countries** 3 cr.
Survey of underdeveloped economies. Theories of economic development and their application; appraisal of programs in selected developing countries. Fall, odd-numbered years. *Prerequisites:* ECON 201/211 and ECON 202/212.
- ECON 407 Business Cycles and Forecasting** 3 cr.
Analysis of business conditions and measurement including theories of cycles; problems of data selection, modeling, and estimation; and forecasting. Fall, even-numbered years. *Prerequisites:* ECON 351 or permission of the instructor.
- ECON 408 Urban and Regional Economics** 3 cr.
Focuses on applied economic analysis of the regional economy and areas within the regional economy. Techniques introduced include economic base analysis, shift share analysis and input-output modelling. Fall, even-numbered years. *Prerequisites:* ECON 201/211 and ECON 202/212.
- ECON 410 Resource and Environmental Economics** 3 cr.
Economic analysis of problems and policies affecting natural resource industries and the environment. Economic framework, mineral, forest, energy industries and environmental use and misuse are analyzed. Fall, even-numbered years. *Prerequisite:* ECON 202/212 or permission of the instructor.
- ECON 450 Quantitative Economics** 3 cr.
Introduction to the use of calculus, matrix algebra, LaGrangian constrained optimization and linear programming in economics. Spring. *Prerequisites:* ECON 201/211 and ECON 202/212.
- ECON 460 Introduction to Econometrics** 3 cr.
Applies economic theory, mathematics, and statistical techniques for the purpose of testing hypotheses about economic phenomena, estimating coefficients of economic relationships, and forecasting economic events. Fall, odd-numbered years. *Prerequisites:* ECON 201/211, ECON 202/212, and MATH 209/219/380.
- ECON 490 Special Topics in Economics** 1-3 cr.
Applications of economic principles to a variety of specialized topics. May be repeated for a maximum of 6 credits. Variable. *Prerequisites:* ECON 201/211 and 202/212 or permission of instructor.
- ECON 491 Seminar in Economics** 3 cr.
Research papers on a selected theme for critical analysis by members of the seminar. Leadership in discussion expected. Designed primarily for economics majors. Spring. *Prerequisites:* ECON 351, ECON 352 and ECON 407 or ECON 460; or senior standing. Capstone.
- ECON 492 Internship Research Paper** 3 cr.
Separately graded academic portion of the internship, required in conjunction with ECON 495. Graded A through F. The entire internship (492 and 495) is for a total of 15 credits for full-time interns and 9 credits for part-time interns. May be counted in the major/minor as an elective. Variable. *Corequisite:* ECON 495.
- ECON 494 Field Experience in Economics** 3 cr.
Supervised field experience for Economics majors and minors relating to operations in economic research, business economics, or governmental agencies. A detailed written and oral report on the experience is required. No more than one field experience may be applied towards graduation. Graded A-F. May be counted toward major/minor as an elective. Every semester. *Prerequisites:* junior or senior standing; minimum of 12 hours in Economics; approval of the department internship committee.
- ECON 495 Internship in Economics** 6 or 12 crs.
Guided work experience with an academic component. Work must be directly related to academic program. Full-time interns register for 12 credits and may not enroll in any other courses (except 492). Part-time interns register for 6 credits. This experiential component is graded P/F. May not be counted toward major or minor requirements. Variable. *Prerequisites:* junior or senior status, in good academic standing; minimum of 12 hours in economics; submission of a completed Internship Agreement Form to the departmental internship director prior to registration. *Corequisite:* ECON 492.
- ECON 499 Individual Problems in Economics** 1-6 cr.
Individual research and formal report on a major topic not covered in regular course. Proposal must be submitted prior to registration. Variable. *Prerequisites:* senior standing, at least 15 hours of economics and consent of department chair.

Educational Professions

EDUC 100 Career Analysis in Education 1 cr.

Analysis of education in America and the potential roles to be played both in schools and in the wider community. A preliminary self assessment of how the students' interests and abilities match the demands of the educational profession. Portfolio development. Observations with reflections. Every semester. *Required: Taken prior to admission to Phase I. Recommended: Taken within first 2 semesters at Frostburg State University.*

EDUC 200 Phase I Teaching & Professional Assessment Laboratory 1 cr.

Through a series of short video-taped teaching sessions, students acquire skill in assessing their own strengths and weaknesses as teachers. Students will write instructional objectives, prepare lesson plans, and teach a series of ten minute lessons to their peers. Includes screening for selected teaching proficiencies. This course is required in all teacher education programs. Graded P/F. Every semester. *Prerequisite: Admission to Phase I. Corequisite: Enrollment in EDUC 202.*

EDUC 201 Students, Teachers, and Learning Environments 3 cr.

A study of students, teachers, and learning environments including the philosophical and historical foundations of the American educational system. Basis for further study in education including topics on legal and ethical issues and diversity. Controlled observations in educational settings. Every semester. May be taken concurrently with EDUC 200/202. *Prerequisite: completion of 30 hours.*

EDUC 202 Foundations of Learning and Instruction 3 cr.

The learning and teaching process in the American educational system. Human growth and development of students birth-21; learning theories and styles; instructional strategies and adaptations. Controlled observations in educational settings. Every semester. Concurrent enrollment required in EDUC 200. May be taken concurrently with EDUC 201. *Prerequisite: Admission to Phase I.*

EDUC 210 Educational Psychology 3 cr.

General principles of the psychology of learning and teaching; emphasis on laws of learning, conditions of learning, efficient learning, improving study habits, diagnosis and evaluation of the learner. Variable.

EDUC 290 Field Experiences in Education 1 to 3 cr.

Supervised field experiences for teacher education students in school and non-school settings focusing on specific problems identified by students. Repeatable to 6 credits. Graded P/F. Every semester. *Prerequisite: permission of department chair, with written proposal for a field problem approved prior to registering.*

EDUC 300 Phase II Teaching & Professional Assessment Laboratory .5 cr.

Video-taped teaching segments with students in school settings. Skills practice and analysis using various teaching models, classroom management techniques, and assessment practices. Participation in seminars on current topics in education. Screening for selected academic and instructional proficiencies. Graded P/F. Every semester. *Prerequisite: admission to Phase II and concurrent enrollment in Phase II methods and appropriate field work experiences.*

EDUC 346 Educational Technology Lab I 1 cr.

Experiences and practice in using technology to support any curriculum. Experiences are assimilated into professional practice. Emphasis on use of technology within the context of accomplishing authentic tasks. Every semester. May be satisfied by portfolio and performance assessment examination. *Prerequisite: Phase I admission or permission of department.*

EDUC 354 General Music Methods in the Elementary School 3 cr.

Music teaching, emphasizing the elementary school level: materials and techniques of instruction for general music classes; general educational theories and their relevance to music education; computer-assisted instruction and integrated technology; facility with accompanying folk instruments; and exposure to the Orff, Kodaly, and Dalcroze approaches to music education. Required in junior year of all students desiring certification in music. *Prerequisite: admission to Phase II of the Teacher Education Program and junior standing in the Music program.*

EDUC 355 General Music Methods in the Secondary School 3 cr.

Music teaching emphasizing the secondary school level: materials and techniques for general music classes; computer-assisted instruction and integrated technology; facility with accompanying folk instruments; historical and philosophic foundations of music education; and program development and instructional design. Required in junior year of all students desiring certification in music. *Prerequisites: EDUC 354 and admission to Phase II of the Teacher Education Program.*

EDUC 376 Special and Multicultural Education 3 cr.

Characteristics of exceptional children. Understanding how exceptionalities, American culture, race, ethnicity, gender, socio-economic class, religion, age, language, and intellectual ability influence learning. Historical and legal influences on American schools and community agencies. Applicable teaching methods. Controlled observations included. Every semester. *Prerequisite: Phase I admission.*

EDUC 391 Teaching Internship I: Secondary Education 2 cr.

Initial internship practicum at secondary school level. Joint supervision by school system and university personnel. Some assignments and responsibilities coordinated with concurrent secondary block courses. Minimum length of practicum equal to 30 half-days (120 clock hours). Graded P/F. Fall. *Prerequisites: Successful completion of first semester of Phase II courses and concurrent enrollment in remaining Phase II course requirements.*

EDUC 392 K-12 Field Experience 1 to 2 cr.

Teacher assistantship in elementary and secondary settings. Requires 60 hours of in-school aide experience at each level. Assignments coordinated with other Phase II courses. Repeatable. Graded P/F. *Prerequisite: Phase II admission.*

EDUC 401 Nursery-Eighth Grade Field Experiences I 1½ cr.

Teacher assistantship in N-8 school setting. Requires 90 hours of in-school experience. Assignments coordinated with Block I methods courses. Graded P/F. Every semester. *Prerequisites: Phase II admission and concurrent enrollment in Block I.*

EDUC 402 Nursery-Eighth Grade Field Experiences II 1½ cr.

Teacher assistantship in N-8 school setting. Requires 90 hours of in-school experience. Assignments coordinated with Block II methods courses. Graded P/F. Every semester. *Prerequisites: Phase II admission and concurrent enrollment in Block II.*

EDUC 403 Assessment and Management of Learning 4 cr.

Design, implementation, and use of various assessment instruments. Qualitative analysis of student performance. Assessment of students, instructional activities, and environments. Communication of assessment data. Elements of developmentally appropriate classroom management. Management strategies for student behavior, curriculum, materials, and resources. Every semester. *Prerequisite: successful completion of Block I.*

EDUC 405 Leadership 2 cr.

Educational leadership in schools, communities, and professional organizations. Professionalism emphasized. Last offered Spring 2006. *Prerequisite: Phase III admission.*

EDUC 406 Leadership Seminar 2 cr.

Reflective self and peer evaluation of teaching performance in the classroom as a foundation for exploration of the leadership roles professional teachers are expected to play in the classroom, school, community, and profession. *Prerequisite: Phase III admission, concurrent enrollment in internship.*

EDUC 410 Teacher Intern Seminar: N-8 3 cr.

A study of the research and materials for various models of teaching with the intent of securing objective feedback for making a sophisticated analysis of curriculum impact, teaching methods, and teacher/student interaction. Graded P/F. Every semester. *Prerequisite: Phase III admission.*

EDUC 422 Leadership Seminar: N-8 3 cr.

Educational leadership in schools, communities, and professional organizations. Elements of developmentally appropriate classroom management. Management strategies for student behavior, curriculum, material, and resources. Professionalism emphasized. Every semester, starting Fall 2006. *Prerequisite: Phase III admission. Capstone.*

- EDUC 429 The School and Community** 3 cr.
Role and participation of the community in public education today. Cooperation between public school and non-school educative agencies in the community. Participation in a field research project required. Variable.
- EDUC 430 Desktop Publishing for Educators** 3 cr.
Use a computer for publishing materials. Learn fundamental principles of publishing design. Learn how to produce published materials that can be used in the classroom. Design desktop publishing projects that will involve K-12 students. Plan for integration of desktop publishing into the curricula. Variable.
- EDUC 432 Hypermedia & Multimedia: Educational Applications** 3 cr.
Learn about hypermedia and multimedia. Become familiar with using a computer for hypermedia applications. Work with text, graphics, video, and sound to create presentations and information exploration materials which incorporate various approaches to teaching and learning. Design hypermedia projects that will involve K-12 students. Plan for integration of hypermedia into the curriculum. Variable.
- EDUC 434 LOGO: Ed. Programming & Instructional Techniques** 3 cr.
Learn about Logo as a language for learning about computers, computer programming, and thinking. Emphasis will be on learner-controlled and learner-directed explorations of intellectual problems of interest. Variable.
- EDUC 441 Classroom Discipline Strategies** 3 cr.
For undergraduates who have had aiding or teaching internship and for practicing teachers. Emphasis on understanding child behavior in school. Democratic classroom setting. Variable. *Prerequisite: Phase II completion.*
- EDUC 444 Cooperative Learning Workshop: Level I** 3 cr.
A study of cooperative learning through an analysis of the underlying theory and observation; planning, and implementation of cooperative learning activities. Summer.
- EDUC 445 Middle School Curriculum and Methods** 3 cr.
The middle school movement; the middle school student and curriculum; teaching in the middle school; middle school organization. Every semester. *Prerequisite: Phase II admission or permission of Department Chair.*
- EDUC 446 Using Databases for Critical Thinking** 1 cr.
Use databases in learning to organize, access, manipulate, and evaluate information. Learn to find and interpret information, find patterns, and make inferences based on established patterns. Develop techniques for using databases in elementary and secondary curricula. Variable.
- EDUC 447 Educational Technology Lab II** 1 cr.
Experiences and practice in using technology to support any curriculum. Experiences are assimilated into professional practice. Emphasis on use of technology within the context of accomplishing authentic tasks. Extension and refinement of Lab I experiences. Every semester. *Prerequisite: Phase II admission.*
- EDUC 448 Educational Technology Lab III** 1 cr.
Experiences and practice in using technology to support any curriculum. Experiences are assimilated into professional practice. Emphasis on use of technology within the context of accomplishing authentic tasks. Extension and refinement of Lab II experiences. Every semester. *Prerequisite: appropriate phase admission and successful completion of Educational Technology Lab II.*
- EDUC 450 Art Education Methods for the Secondary Teacher** 3 cr.
Curriculum, goals, content and organization of secondary art education. Theories of visual development and artistic behavior in age-appropriate students; materials, resources and processes for teaching art; classroom management, and technology applications. Two hrs. lecture, 2 hr. lab. Credit cannot be earned for both EDUC 450 and EDUC 308. Fall. *Prerequisites: admission to Phase II or permission of the Department Chair; EDUC 392 and EDUC 451 recommended concurrently.*
- EDUC 451 Art Education Methods for the Elementary Teacher** 3 cr.
Curriculum, goals, content, and organization of elementary art education. Theories of visual development and artistic behavior in age-appropriate students; materials, resources and processes for teaching art; classroom management and technology applications. Two hrs. lecture, 2 hr. lab. Credit cannot be earned for both EDUC 451 and EDUC 309. Fall. *Prerequisites: ad-*
- mission to Phase II or permission of the Department Chair; EDUC 392 and EDUC 450 recommended concurrently.*
- EDUC 454 Microcomputer Application in Education** 3 cr.
Introductory course to familiarize educators with microcomputers. Microcomputers as a teaching tool; innovations, systems of instruction, model programs, matching software to school children's needs. Every semester. *Prerequisite: Phase II admission or permission of instructor.*
- EDUC 490 Special Topics in Education** 1/2 to 6 cr.
Special workshop on a current topic, as arranged.
- EDUC 497 or PHEC 497 Teaching Internship: K-12 Programs** 12 cr.
Supervised practicum in teaching in elementary and secondary schools. Joint supervision by school system and university personnel. Daily, full day for one semester. Graded P/F. Every semester. *Prerequisite: Phase III admission or permission of Department Chair. PHEC 497 HPE Capstone.*
- EDUC 499 Individual Problems in Education** 1 to 3 cr.
Independent study under supervision. Research paper on special topic. Requires proposal approval through Dept. of Educational Professions prior to registering. Repeatable to 6 credits. Every semester, summer.
- ### Early Childhood Education
- ECED 150 Early Childhood Foundations** 3 cr.
Introduction to profession of early childhood education. Includes growth and development of young children. Examines historic, theoretical and philosophical underpinnings of current early childhood programs. Explores play, learning environments and curriculum. Looks at the context of families and communities. Requires a reflective journal, field observations, and portfolio development. Every semester. *Taken Prephase I before ECED 293 in the ECE/ELEM major's professional sequence as part of the ECE specialization.*
- ECED 293 Early Childhood Learning Environment, Materials & Methods** 3 cr.
Examination and assessment of developmentally appropriate environments, materials and methods for young children birth to age eight. Includes planning of physically and psychologically safe and healthy learning environments. Taken during Prephase I of ECE/ELEM major's professional sequence as part of ECE specialization. Every semester. *Prerequisite: ECED 150 and declaration of ECE/ELEM major.*
- ECED 431 Early Childhood Education Curriculum Development, Implementation & Assessment** 3 cr.
Philosophy and function of early childhood education curriculum. Analysis of children's needs; planning, implementing, and assessing a balanced program. Taken Phase II Block II of ECE/ELEM major's professional sequence as part of ECE specialization. Every semester. *Prerequisite: Successful completion of ECED 443 or permission of the department.*
- ECED 438 Early Childhood Classroom Management** 3 cr.
For the early-childhood teacher: advanced teaching skills in nurturing the young child's social experiences, self-discipline, independence, and creativity; arranging play experiences, organizing physical space, communicating with children, child study. Variable.
- ECED 442 Administration & Supervision of Early Childhood Programs** 3 cr.
Administrative and supervisory responsibilities for the early-childhood educator in providing quality programs for young children. Variable. *Prerequisite: permission of instructor.*
- ECED 443 Adults in the Child's World** 3 cr.
The early-childhood educator's influence on and collaboration with the child's caregivers; the use of local, state, and national resources to meet child, family, and community educational needs. Taken Phase II Block I of ECE/ELEM major's professional sequence as part of ECE specialization. Every semester. *Prerequisite: Phase II admission or permission of department.*

Elementary Education

ELED 307 Block 1 Clinical & Professional Assessment Component 1 cr.
Supervised assisting at the early childhood, elementary, and middle school levels. Joint supervision by school system and university personnel. Daily, full day clinical experience. Graded P/F. Every semester. *Prerequisite: Admission to Phase II.*

ELED 403 Assessment and Management of Learning 4 cr.
Component course of the 13 credit integrated Block II, Phase II of the elementary teacher education program. Block II courses center on the extension and refinement of basic concepts, skills, and information related to the teaching of mathematics, science, language arts, and social studies. The major program themes of technology, integration, teaming, performance-based instruction, professionalism, diversity, service learning, and career awareness are modeled and utilized as integrating threads. Focuses on the evaluation of students and instructional activities. Every semester. *Prerequisite: Admission to Phase II of the Teacher Education Program and recommendation of Phase I, Block I faculty team.*

ELED 470 General Curriculum 3 cr.
Planning, constructing, and organizing the school curriculum; types of curricula and current applications. Every semester. *Prerequisite: Phase II admission or permission of Department Chair.*

ELED 471 Mathematics Curriculum, Methods & Assessment 3 cr.
Planning, constructing, and organizing curriculum; types of curricula. Methods, materials, content, and assessment for teaching P-8 Mathematics. Every semester. *Prerequisite: admission to Phase II.*

ELED 472 Language Arts Curriculum, Methods & Assessment 3 cr.
Planning, constructing, and organizing curriculum; types of curricula. Methods, materials, content, and assessment for teaching Language Arts. Every semester. *Prerequisite: admission to Phase II.*

ELED 474 Science Curriculum, Methods & Assessment 3 cr.
Planning, constructing, and organizing curriculum; types of curricula. Methods, materials, content, and assessment for teaching P-8 Science. Every semester. *Prerequisite: admission to Phase II.*

ELED 475 Social Studies Curriculum, Methods & Assessment 3 cr.
Planning, constructing, and organizing curriculum; types of curricula. Methods, materials, content, and assessment for teaching P-8 Social Studies. Every semester. *Prerequisite: admission to Phase II.*

ELED 494 Teaching Internship I: N-8 6 cr.
Supervised practicum in teaching at the early childhood, elementary, and middle school levels. Joint supervision by school system and university personnel. Daily, full day clinical experience. When taken during fall semester, includes a one-week beginning of the school year experience. Graded P/F. Every semester. *Prerequisite: successful completion of Block I.*

ELED 495 Teaching Internship II: N-8 Programs 12 cr.
Supervised practicum in teaching at the early childhood, elementary, and middle school levels. Joint supervision by school system and university personnel. Daily, full day clinical experience. When taken during fall semester, includes a one-week beginning of the school year experience. Graded P/F. Every semester. *Prerequisite: successful completion of Internship I and Phase III admission. Capstone.*

Guidance

GUCO 406 Introduction to Guidance 3 cr.
History and philosophy of guidance programs; the role, organization, and methods of guidance. Variable.

Reading

REED 317 Content Area Reading 3 cr.
Identification of the special reading demands in content areas and development of appropriate instructional activities. The reading process as it relates to content area learning. Research, best practices, and instructional strategies. Required for all secondary and K-12 approved programs. Every semester. *Prerequisite: appropriate Phase admission.*

REED 323 Process and Acquisition of Reading 3 cr.
Process of language development, including impact of phonemic awareness, and how the brain responds to reading acquisition. Practical applications of research in language development, acquisition, and use. Understanding of the role of experiential background, prior knowledge, motivation, and personal significance to emerging readers. Every semester. *Prerequisite: Phase I admission.*

REED 416 Reading and Language 3 cr.
Practical applications of research in language development, acquisition, and use. Relevant to all education majors. Every semester. *Prerequisite: Phase II admission.*

REED 418 Reading and Writing Connections 3 cr.
Reading and writing activities in daily instruction. The role and use of authentic assessments in determining student reading performance and selection of materials appropriate to student ability levels. Taken with Secondary Block. Not open to students with credit for former REED 318. Spring. *Prerequisite: Phase II admission.*

REED 420 Assessment for Reading Instruction 3 cr.
Understanding of the use of national, state, local, and classroom reading assessment data to make ongoing instructional modifications as a strategy for prevention and intervention. Understanding of a variety of reading assessments and curriculum adjustments. Communicating assessment data about individual student reading performance to appropriate sources. Every semester. *Prerequisite: successful completion of Block I.*

REED 422 Practicum in Reading Instruction 3 cr.
Laboratory experience in correcting reading problems. Diagnosis and program planning. Tailoring of materials and techniques to the particular child. Variable. *Prerequisite: REED 420.*

REED 425 Materials and Motivations for Reading 3 cr.
Support for long term motivation of developing readers within a framework of inquiry. Experience a variety of texts to be used in classes when reading for literary experience, reading to perform a task, and reading for information. Apply strategies for selecting materials, for retrieving materials, and for evaluating materials. Understanding of accessibility, variety of media, multicultural materials, text features, and oral and written responses to literature. Knowledge of the role of parents in supporting reading programs. Every semester. *Prerequisite: Block II admission or permission of the department.*

REED 440 Children's Literature 3 cr.
Content and form of children's literature in books other than school textbooks. How to evaluate literature and use literary materials in teaching. Variable.

REED 450 Classroom Techniques in Diagnosis & Correction of Reading Difficulties 3 cr.
Lecture and laboratory to diagnose reading difficulties and plan corrective programs using a variety of materials and techniques in tutoring. Summer. *Prerequisite: REED 420 and 422.*

REED 473 Reading Instruction 3 cr.
Knowledge of best practices and instructional strategies which focus on the purposes for reading. How to use a balanced program of phonics, semantics, and syntactics in teaching reading. Methods, materials, and content for teaching reading in grades N-8. Knowledge of early identification and intervention strategies for low achieving readers. Every semester. *Prerequisite: Phase II admission.*

Secondary Education

SCED 410 Secondary Methods and Curriculum 3 cr.
Evolution of the philosophy of secondary education. Current curricula, planning, issues, and instructional methodologies in all secondary teaching areas. Required for secondary education majors. Not open to students with credit for former SCED 310. Spring. *Prerequisite: Phase II admission.*

SCED 411 English in the Secondary School 3 cr.
Subject methods course required for secondary certification in teaching English. Modern trends in curriculum and instruction. Not open to students with credit for former SCED 311. Fall. *Prerequisite: Phase II admission or permission of Department Chair; EDUC 391 recommended concurrently.*

SCED 414 Mathematics in the Secondary School**3 cr.**

Subject methods course required for secondary certification in teaching mathematics. Modern trends in curriculum and instruction. Not open to students with credit for former SCED 314. Fall. *Prerequisite: Phase II admission or permission of Department Chair; EDUC 391 recommended concurrently.*

SCED 415 Methods of Teaching Modern Foreign Languages**3 cr.**

A general methods course for foreign-language majors seeking certification at the secondary level or elementary education majors seeking certification in teaching a language at the elementary level. (Does not certify a secondary language major to teach the elementary level.) Not open to students with credit for former SCED 315. Fall. *Prerequisite: Phase II admission or permission of Department Chair; EDUC 391 recommended concurrently.*

SCED 416 Business Education in the Secondary School**3 cr.**

Methods of teaching business content and skill competencies, organization and evaluation of work experiences, and the leadership role of the teacher in the development of student organizations. Included are: philosophy, aims, purposes and objectives of Business Education; planning, organizing, and evaluating the educational process, facilities and equipment; survey techniques used in business; teacher role in developing attitudes and preparing students for life-long learning. Proficiency in the skill areas required. Credit cannot be earned for both SCED 416 and SCED 316. Fall. *Prerequisites: Phase II admission or permission of Department Chair; EDUC 391 recommended concurrently.*

SCED 419 Science in the Secondary School**3 cr.**

Subject methods course required for secondary certification in teaching science. Modern trends in curriculum and instruction. Not open to students with credit for former SCED 319. Fall. *Prerequisites: Phase II admission or permission of Department Chair; EDUC 391 recommended concurrently.*

SCED 420 Social Studies in the Secondary School**3 cr.**

Subject methods course required for secondary certification in teaching social studies. Modern trends in curriculum and instruction. Not open to students with credit for former SCED 320. Fall. *Prerequisites: Phase II admission or permission of Department Chair; EDUC 391 recommended concurrently.*

SCED 496 Teaching Internship II: Secondary Education**12 cr.**

Supervised practicum in teaching at secondary school level. Joint supervision by school system and university personnel. Daily, full day for one semester. Graded P/F. Every semester. *Prerequisite: Phase III admission or permission of Department Chair.*

Special Education**SPED 451 Adapting Instruction in Diverse Classrooms****3 cr.**

An understanding of the instructional and social development needs of the disabled and non-disabled students in inclusive classrooms. Special attention to collaboration, technology, legislation, educational programming, instructional strategies, inclusion models, and current research related to the students enrolled in secondary school inclusion programs (middle/senior high school) and K-12 programs. Not open to students with credit for former SPED 361. Every semester. *Prerequisite: Phase II admission.*

SPED 461 Characteristics of Exceptional Children**3 cr.**

Etiology, diagnosis, physical, emotional, and social characteristics of exceptional children, including the gifted, retarded, and physically handicapped. Variable.

SPED 462 Intro. to the Education of Exceptional Children**3 cr.**

Understanding the educational needs of exceptional children; preventive and remedial education. Variable.

SPED 463 Teaching Children with Special Needs**3 cr.**

Observation, identification, and management of children with mild to moderate learning problems. Variable. *Prerequisite: permission of instructor.*

SPED 481 The Gifted Learner**3 cr.**

Study of recent research on characteristics, needs, and problems of gifted learners; model programs; future possibilities. Variable. *Prerequisite: PSYC 150 or EDUC 201 or permission of instructor.*

SPED 482 Curriculum for the Gifted Learner**3 cr.**

Theoretical and practical approaches to teaching gifted learners; constructing unique plans for each teacher's needs. For those who will deal with gifted learners. Variable. *Prerequisite: at least one course in curriculum.*

Engineering**Engineering Sciences****ENES 100 Introduction to Engineering Design****3 cr.**

FSU Course. Introduction to the engineering design process, computer software for word processing, spreadsheet, CAD and communication skills. Students work as teams to design and build a project. Two hrs. lecture and two hrs. recitation per week. Every semester.

ENES 102 Statics**3 cr.**

FSU Course. The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, beams and friction. Vector and scalar methods are used to solve problems. Three hrs. lecture and one hr. discussion/recitation per week. Spring. *Prerequisite: MATH 236.*

ENES 220 Mechanics of Materials**3 cr.**

FSU Course. Stress and deformation of solids-rods, beams, shafts, columns, tanks, and other structural, machine and vehicle members. Topics include stress transformation using Mohr's circle; shear and moment diagrams; derivation of elastic curves; and Euler's buckling formula. Design problems related to this material are given in lab. Fall. *Prerequisites: ENES 102, MATH 237, PHYS 261.*

ENES 221 Dynamics**3 cr.**

FSU Course. Systems of heavy particles and rigid bodies at rest and in motion. Force-acceleration, work-energy and impulse-momentum relationships. Motion of one body relative to another in a plane and in space. Two hrs. lecture and two hrs. lab per week. Fall. *Prerequisites: PHYS 261, ENES 102, MATH 237.*

Electrical Engineering

** For course descriptions of elective courses available in electrical engineering, please refer to the Clark School of Engineering catalog of the University of Maryland, College Park.

ENEE 114 Programming Concepts for Engineers**4 cr.**

FSU Course. Principles of software development, high level languages, compiling and linking, pseudo-code, input/output, data types and variables, operators and expressions, conditionals and loops, functions, arrays, pointers, structure data types, memory allocation, introduction to algorithms, software projects, debugging, documentation. Programs will use the C language. Three hrs. lecture and two hrs. recitation per week. Spring. *Corequisite: ENES 100.*

ENEE 204 Basic Circuit Theory**3 cr.**

FSU Course. Basic circuit elements: resistors, capacitors, inductors, sources, mutual inductance and transformers; their I-V relationships. Kirchoff's Laws. DC and AC steady state analysis. Phasors, node and mesh analysis, superposition, theorems of Thevenin and Norton. Transient analysis for first- and second-order circuits. Three hrs. lecture and one hr. discussion/recitation per week. *Prerequisite: PHYS 262. Corequisite: MATH 432.*

ENEE 206 Fundamental Electric & Digital Circuit Laboratory**2 cr.**

FSU Course. Introduction to basic measurement techniques and electrical laboratory equipment (power supplies, oscilloscopes, voltmeters, etc.). Design, construction, and characterization of circuits containing passive elements, operational amplifiers, and digital integrated circuits. Transient and steady-state response. This course is prerequisite to all upper level ENEE laboratories. One hour lecture and three hrs. lab per week. Spring. *Prerequisite: ENEE 244. Corequisite: ENEE 204.*

ENEE 241 Numerical Techniques in Engineering**3 cr.**

FSU Course. Introduction to error analysis, conditioning and stability of algorithms. Numerical solution of nonlinear equations. Vector spaces and linear transformations. Matrix algebra. Gaussian elimination. LU factoriza-

tion, matrix inversion. Similarity transformations and diagonalization. Iterative computation of eigenvalues. Interpolation; splines; data fitting. Numerical integration. Three hrs. lecture and one hr. discussion/recitation per week. Fall. *Prerequisite:* ENEE 114, MATH 237.

ENEE 244 Digital Logic Design 3 cr.
FSU Course. Gates, flip-flops, registers and counters. Karnaugh map simplification of gate networks. Switching algebra. Synchronous sequential systems. PLA's. Elements of binary arithmetic units. Three hrs. lecture and one hr. discussion/recitation per week. Fall. *Prerequisite:* ENEE 114.

ENEE 303 Analog and Digital Electronics 3 cr.
UMCP course. Introduction to the conceptual physical operation of PN-junction diodes, MOSFETs and bipolar transistors (BJTs). Large signal terminal characteristics of PN junction diodes, bipolar and MOSFET transistors. Digital electronics is covered at the transistor level including the inverter, NAND and NOR gates. Semiconductor memory. Basic transistor circuit configurations including the BJT common emitter (CE) and common collector (CC) circuits, and the MOSFET common source (CS) and common drain (CD) configurations. DC bias and small signal analysis of BJTs and MOSFETs. Simple multitransistor circuits including: the differential-amplifier and the current mirror. Frequency response of simple amplifiers. Fall. *Prerequisite:* A "C" or higher in all 200-level ENEE courses. *Corequisite:* ENEE 307.

ENEE 307 Electronics Circuits Design Laboratory 2 cr
FSU course. I-V properties of diodes and transistors through simple experiments. Analysis, design, and construction of digital and analog electronic circuits at the transistor and integrated circuit levels. Operation and design of relevant multi-transistor circuits. BJT forward active operation by study of CE design, bias and small signal operation. MOS common source operation, study of invertors, NAND and NOR gates. Simulation and analysis of Random Access Memory (RAM). Study of basic transistor configurations and frequency response by building a high-fidelity audio amplifier. Differential amplifiers, active loads, current mirrors, and principles of feedback through the construction of op-amps out of discrete components. Experiments will be tightly aligned to the ENEE 303 lectures. Not open to students who have credit for former ENEE 306. One hr. lecture, three hrs. lab. Fall. *Prerequisite:* C or better in all 200-level ENEE courses. *Corequisite:* ENEE 303.

ENEE 313 Introduction to Device Physics 3 cr.
UMCP course. Basic physics of devices including crystal structure, fields in solids and properties of electrons and holes including diffusion and energy distributions. Current flow in Si by drift and diffusion, equations of motion of particles, p-n junction, depletion, fields and potentials, depletion and diffusion capacitance, and current flow under forward and reverse bias. Operation of bipolar junction and metal-oxide field effect transistors, their physical structure, operation thresholds, current flow, capacitance and current-voltage characteristics. Spring. *Prerequisites:* a "C" or higher in all 200-level ENEE courses.

ENEE 322 Signal and System Theory 3 cr.
UMCP Course. Concept of linear systems, state space equations for continuous systems, time and frequency domain analysis of signals and linear systems. Fourier, Laplace and Z transforms. Application of theory to problems in electrical engineering. Fall. *Prerequisites:* ENEE 204 and MATH 432 and completion of all lower division technical courses in the EE curriculum.

ENEE 324 Engineering Probability 3 cr.
UMCP Course. Axioms of probability, conditional probability and Bayes' rules, random variables, probability distribution and densities, functions of random variables, weak law of large numbers and central limit theorem. Introduction to random processes, correlation functions, spectral densities, and linear systems. Applications to noise in electrical systems, filtering of signals from noise, estimation, and digital communications. Spring. *Prerequisite:* ENEE 322 and completion of all lower division technical courses in the EE curriculum.

ENEE 350 Computer Organization 3 cr.
FSU course. Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages. Three hrs. lecture and one hr. discussion. Fall. *Prerequisite:* ENEE 244 and "C" or better in all 200-level ENEE courses.

ENEE 381 Electromagnetic Wave Propagation 3 cr.
UMCP course. The electromagnetic spectrum: Review of Maxwell's equations; the wave equation potentials, Poynting's theorem, relationship between circuit theory and fields; propagation of electromagnetic waves in homogeneous media and at interfaces; transmission line theory, wave-guides, radiation and antennas. Spring. *Prerequisite:* PHYS 312 and completion of all lower-division technical courses in the EE curriculum.

ENEE 408 Capstone Design Project 3 cr.
Culmination of prior course work in engineering. Utilization of modern design tools and methodologies for the design of components or systems under realistic constraints, with particular emphasis on teamwork and oral/written communication. Areas in which projects are offered include analog and digital electronic circuits, electromechanical systems and devices, control systems, signal processing, and instrumentation. 1.5 hrs. lecture and 3 hrs. lab. Spring. *Prerequisite:* permission of department. Repeatable to 6 credits maximum if content differs.

ENEE 417 Microelectronics Design Laboratory 2 cr.
FSU Course. Senior class capstone project laboratory. Students design and build fairly sophisticated circuits, mainly composed of discrete transistors and integrated circuits. Students may become involved in various projects designed to require that they synthesize from what they have learned in many of the disciplines in electrical engineering. Students gain hands-on practical experience while learning how to use their knowledge and skills to design and build a device or system. One lecture and three hours of lab per week. Variable. *Prerequisites:* ENEE 306 and ENEE 312 and completion of all lower division EE technical courses.

ENEE 439 Topics in Signal Processing 1-3 cr.
FSU Course. Selected topics of current importance in signal processing. For electrical engineering majors only. Variable. Repeatable to up to 6 credits maximum if content differs. *Prerequisite:* permission of department and completion of all lower division technical courses in the EE curriculum.

ENEE 461 Control Systems Lab 2 cr.
FSU Course. Design criteria, characteristics and limitations of modern control systems. Sensors, feedback, PID Control. Servomechanisms, control of various physical quantities such as temperature, pressure, liquid level, etc. Computer-based process control. Errors in digital control systems. Students will gain hands-on experience through a design project to build and test a feedback control system for a real world application. One lecture and three hours of lab per week. Variable. *Prerequisites:* ENEE 206 and ENEE 322 and completion of all lower-division technical courses in the EE curriculum.

ENEE 475 Power Electronics 3 cr.
FSU Course. Basic principles of power electronics and its applications. Analytical methods, canonical circuit topologies, fundamentals of power semiconductor, snubbing circuits, drive circuits, and control methods. Variable. *Prerequisite:* ENEE 302 and completion of all lower division courses in the EE curriculum.

Mechanical Engineering

** For course descriptions of elective courses available in mechanical engineering, please refer to the Clark School of Engineering catalog of the University of Maryland, College Park.

ENME 232 Thermodynamics 3 cr.
FSU Course. Introduction to thermodynamics. Thermodynamic properties of matter. First and second law of thermodynamics, cycles, reactions, mixtures. Variable. *Prerequisites:* PHYS 261 and 262.

ENME 271 Numerical Methods in Mechanical Engineering 3 cr.
FSU Course. Develop the skills to generate readable, compact and verifiably correct MATLAB scripts and functions to obtain numerical solutions to a wide range of engineering models and to display the results with fully annotated graphics. Learn structured programming. Two lectures and two hrs. lab per week. Spring. *Prerequisite:* ENES 221.

ENME 320 Thermodynamics 3 cr.
UMCP Course. Properties, characteristics and fundamental equations of gases and vapors. Application of the first and second laws of thermodynamics in the analysis of basic heat engines, air compression vapor cycles. Flow and

non-flow processes for gases and vapors. Spring. *Prerequisites:* PHYS 261, PHYS 262, and MATH 237.

ENME 331 Fluid Mechanics

3 cr.

FSU Course. Principles of fluid mechanics. Mass, momentum and energy conservation. Hydrostatics. Control volume analysis. Internal and external flow. Boundary layers. Modern measurement techniques. Computer analysis. Laboratory experiments. Two hrs. lecture and two hrs. lab per week. Fall. *Prerequisites:* ENES 221, ENME 232 or 320.

ENME 332 Transfer Processes

3 cr.

FSU Course. The principles of heat transfer. Conduction in solids. Convection. Radiation. Modern measurement techniques. Computer analysis. Two hrs. lecture and two hrs. lab per week. Spring. *Prerequisite:* ENME 331.

ENME 350 Electronics and Instrumentation I

3 cr.

FSU Course. Modern instrumentation. Basic circuit design, standard micro-electronic circuits. Digital data acquisition and control. Signal conditioning. Instrumentation interfacing. Designing and testing of analog circuits. Laboratory experiments. Two hrs. lecture and two hrs. lab per week. Not open to students who have credit for former ENME 252. Fall. *Prerequisite:* PHYS 263.

ENME 351 Electronics and Instrumentation II

3 cr.

FSU Course. Continuation of ENME 350. Modern instrumentation. Basic circuit design, standard microelectronic circuits. Digital data acquisition and control. Signal conditioning. Instrumentation interfacing. Designing and testing analog circuits. Laboratory experiments. Two hours lecture and two hours lab per week. Spring. *Prerequisites:* ENME 350 and PHYS 263.

ENME 361 Vibration, Controls and Optimization I

3 cr.

UMCP Course. Fundamentals of vibration, controls, and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical description of system response, system stability, control and optimization. Optimal design of mechanical systems. Spring. *Prerequisites:* ENES 220, ENES 221, ENME 271, and MATH 432.

ENME 371 Product Engineering and Manufacturing

3 cr.

FSU Course. Business aspects of engineering product development. Relationship of design and manufacturing. Product specification. Statistical process control. Design team development. The development process. Fall. *Prerequisite:* ENES 221 and ENME 392.

ENME 382 Engineering Materials & Manufacturing Processes

3 cr.

FSU Course. Basic material structures and properties. Mechanical behavior of materials. Manufacturing processes theory. Materials processing. Quality assurance. Laboratory experiments. Two hours lecture and two hours lab per week. Spring. *Prerequisite:* ENES 220.

ENME 392 Statistical Methods for Product & Process Develop.

3 cr.

UMCP Course. Integrated statistical methodology for the improvement of products and processes in terms of performance, quality and cost. Designed experimentation. Statistical process control. Software application. Laboratory activities. Fall. *Prerequisite:* MATH 238.

ENME 462 Vibration, Controls and Optimization II

3 cr.

UMCP Course. Continuation of ENME 361. Fundamentals of vibration, controls, and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical descriptions of system response, system stability, control and optimization. Optimal design of mechanical systems. Fall. *Prerequisites:* ENME 351 and ENME 361.

ENME 472 Integrated Product and Process Development

3 cr.

FSU Course. Integration of product development with the development process. Design strategies. Product architecture. Design for manufacturing. Selection of materials. Design for assembly. Two hours lecture and two hours lab per week. Spring. *Prerequisite:* ENME 371. *Capstone.*

ENME 488 Special Problems in Mechanical Engineering

3 cr.

Advanced problems in mechanical engineering with special emphasis on mathematical and experimental methods. Variable. *Prerequisite:* permission of department.

English

Writing

ENGL 100 Publication Practicum

1-2 cr.

Writing for and editing the campus literary magazine. Open to all students. (1-2 credits per semester: repeatable to 4 credits). Spring.

ENGL 101 Freshman Composition

3 cr.

Addresses the processes of composition and develops intermediate skills in writing essays with an argumentative edge. Based on readings for diverse audiences, it prepares students for writing documented essays. Every semester. *Students may not withdraw unless withdrawing from the University. Core Skill 1.*

ENGL 111 Honors: Freshman Composition

3 cr.

Development of intermediate skills in writing based on readings for general audiences. Preparation for honors-level courses. Credit cannot be earned for both ENGL 101 and ENGL 111. Every semester. *Prerequisite:* enrollment in the Honors Program. *Core Skill 1.*

ENGL 300 Critical Writing About Literature

3 cr.

Introduction to literary theory to develop critical perspectives on literary works and provide flexible writing strategies. Advanced writing about literature. Required of English majors and minors. Prior literature at 200-level required. Readings involve literary analysis and criticism. Every semester. *Prerequisite:* C or better in ENGL 101 or 111. *Core Skill 2.*

ENGL 306 Introduction to English Linguistics

3 cr.

A study of the grammars and grammatical aspects of English as well as of language use in society, language change, and language acquisition and processing. Every semester. *Prerequisite:* C or better in ENGL 101 or 111.

ENGL 308 Social Sciences Advanced Composition

3 cr.

Development of advanced skills in writing based on reading for social science audiences. Preparation of extended papers; attention to research tools and documentation. Students may receive credit for only one of the following: 308, 309, 310 or 312. Every semester. *Prerequisites:* C or better in ENGL 101 or 111; and at least 42 credits or permission of Chair. *Core Skill 2.*

ENGL 309 Advanced Composition: Humanities

3 cr.

A special advanced composition course which fulfills all of the reading and writing requirements of English 308 and 310, but centers research on topics appropriate to the humanities. Development of advanced writing skills. Extensive and research-based papers; attention to research tools and documentation. Students may receive credit for only one of the following: 308, 309, 310, or 312. Fall. *Prerequisites:* C or better in English 101 or 111; and at least 42 credits or permission of instructor. *Core Skill 2.*

ENGL 310 General Advanced Composition

3 cr.

Development of advanced skills in writing. Students may receive credit for only one of the following: ENGL 308, 309, 310, or 312. Every semester. *Prerequisites:* C or better in ENGL 101 or 111; and at least 42 credits or permission of Chair. *Core Skill 2.*

ENGL 312 Honors: Advanced Composition

3 cr.

Development of advanced skills in writing. Both reading and writing assignments more challenging than those in other Advanced Composition courses (ENGL 308, 310). Credit cannot be earned for more than one of the following: ENGL 308, 309, 310, or 312. Variable. *Prerequisites:* C or better in ENGL 101 or ENGL 111, at least 42 credits, and enrollment in Honors Program. *Core Skill 2.*

ENGL 330 Business Writing

3 cr.

Basic writing for business and para-professional occupations. Writing resumés, job applications, memos and reports, and other kinds of business writing. Every semester. *Prerequisites:* C or better in ENGL 101 or 111; and at least 42 credits or permission of Chair. *Core Skill 2.*

ENGL 334 Creative Writing: Fiction

3 cr.

Major elements of fiction writing: style, characterization, point of view, structure, pacing, conflict. Class critiques of student work. Every semester. *Prerequisite:* C or better in ENGL 101 or 111.

ENGL 335 Creative Writing: Poetry**3 cr.**

Major elements of poetry: imagery, metaphor, theme, form. Both lyric and narrative poetry. Class critiques of student work. Every semester. *Prerequisite: C or better in ENGL 101 or 111.*

ENGL 336 Journalistic Writing**3 cr.**

Introduction to the newspaper industry, effective newsgathering, and the specialized formats and style of straight news and feature stories. Communication and promotional activities of the journalist-turned-public-relations professional. Every semester. *Prerequisite: C or better in ENGL 101 or 111.*

ENGL 338 Technical Writing**3 cr.**

Principles and practice of writing related to science, industry, and government. Effective style, organization, and mechanics of writing reports. Every semester. *Prerequisites: C or better in ENGL 101 or 111; and at least 42 credits or permission of Chair. Core Skill 2.*

ENGL 339 Scientific Writing**3 cr.**

Introduction to formats, prose, and style specifications for Natural Science curricula. Focuses on language, research, critical analysis, and interdisciplinary impact of scientific discoveries. Variable. *Prerequisites: C or better in ENGL 101/111; at least 42 credits or permission from Chair. Core Skill 2.*

ENGL 360 Creative Nonfiction**3 cr.**

Merging of the skills of storytelling and reporting to write personal essays and literary journalism. Fall. *Prerequisite: ENGL 334, 335, or 336.*

ENGL 402 Editing and Production**3 cr.**

Design, layout, and editing techniques for professional publications. Reinforcement of copy editing and proofreading skills. Spring. *Prerequisite: ENGL 300, 308, 309, 310, 330, or 338.*

ENGL 430 The Composing Processes**3 cr.**

A survey of theory and research on the composing processes. Every semester. *Prerequisite: 6 hrs. of writing courses, including one from the 300 writing series offered by the English department.*

ENGL 434 Advanced Fiction Writing**3 cr.**

Continued study of fiction writing through advanced individual work on short stories, a novel, or a novella. Within a workshop setting, students will work toward producing publishable-quality fiction and learn how to approach publishers and editors. Fall. *Prerequisite: ENGL 334 or permission of instructor.*

ENGL 435 Advanced Poetry Writing**3 cr.**

Continued study of poetry writing through advanced individual work on lyrical, dramatic, and narrative poems. Within a workshop setting, students will work towards publishable-quality poetry. Spring. *Prerequisite: ENGL 335.*

ENGL 436 Advanced News and Feature Writing**3 cr.**

Skills in gathering and writing news. Techniques of New Journalism and writing for magazines. Spring. *Prerequisite: ENGL 336 or permission of instructor.*

ENGL 460 Form and Theory of Fiction and Poetry**3 cr.**

In-depth study of the techniques and methods employed by major writers of fiction and poetry, including consideration of structure, language, form, voice, theme, point of view, and character. Fall. *Prerequisite: ENGL 334 or 335.*

ENGL 470 Senior Workshop**3 cr.**

An integrated senior-year experience that requires students to use their accumulated skills, knowledge, and creative impulses to complete a final creative writing portfolio of publishable quality. Course includes tutorials, workshops, marketing and submission of original work, and final readings. Spring. *Prerequisite: ENGL 434 or 435.*

ENGL 492 Internship Seminar**1 cr.**

Academic component of internship. Requires co-registration in 495. Graded A-F. Credit for 492 may be counted toward major. Every semester.

ENGL 494 Field Experience in Writing**3 cr.**

Requires nine work-hours per week of practical writing experience in an approved, supervised, professional setting. Every semester. *Prerequisites: Junior or senior standing and permission of the faculty coordinator.*

ENGL 495 Internship in English**6 or 12 cr.**

Experiential component of internship: guided work experience in conjunction with 492; must directly relate to academic program. Full-time interns register for 12 credits in 495 and 1 credit in 492. Part-time interns register for 6 credits in 495 and 1 credit in 492. English 495 is graded P/F. Every semester. *Prerequisites: junior or senior status, in good academic standing; submission of Internship Agreement form to internship director prior to registering; major or minor in English, or minor in Public Relations, Journalism or Film Studies.*

Literature and Language**ENGL 150 Introduction to Literature****3 cr.**

A thematic study of literature, looking across genres and cultures at contemporary topics. Continued development of writing skills. Every semester. *GEP Group B.*

ENGL 206 Modern American Drama**3 cr.**

An introductory survey of representative American plays and playwrights of the 20th century with attention to the evolution of Modern American Theatre and analysis of the efforts of the playwright and theatrical professionals. Fall, even-numbered years. *Prerequisite: ENGL 101 or 111 or equivalent. Also offered as THEA 206.*

ENGL 207 Introduction to Film Studies**3 cr.**

A cross-cultural examination of film with a focus on developing critical skills and formal approaches to cinematic analysis through such concepts as genre, cinematography, camera movement and sound. Weekly film viewing. Fall. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*

ENGL 208 Film and American Culture**3 cr.**

Critical investigation of popular American movies, emphasizing the role films have historically played in projecting, reflecting and challenging cultural values and beliefs. Weekly film screening. Spring, even-numbered years. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*

ENGL 221 Intro. to Literature/Intermediate Composition**3 cr.**

Critical reading of expository prose and significant poetry, drama, and fiction from a variety of cultures and eras, with emphasis on developing intermediate writing skills. Preparation of short papers and essay exams. Graded A-F. A passing grade (D or better) satisfies the GEP Group B requirement for ENGL 150. Students meeting the competencies of freshman composition purchase three credits for ENGL 101. Students in 221 may thus fulfill both the core skill (ENGL 101, when the credits are purchased) and the GEP Group B requirement of ENGL 150, or they may fulfill only one, or neither. Every semester. *Open only to students never enrolled in ENGL 101 or ENGL 111. Students may not withdraw unless withdrawing from the University. Core Skill 1 and/or GEP Group B.*

ENGL 231 African American Literature**3 cr.**

Historical survey and critical examination of major African American writings from colonial times to the present, emphasizing oral and literary traditions and cultural contexts. Variable. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*

ENGL 250 Honors: Comparative Literature**3 cr.**

Literature generated by the cross-cultural interface of Western countries with those third-world areas that have reclaimed their national identities since World War II. Credit cannot be earned for both ENGL 150 and ENGL 250. Variable. *Prerequisite: acceptance into the Honors Program or permission of instructor. GEP Group B.*

ENGL 260 British Literature: Beowulf to Present**3 cr.**

A survey of British literature from Beowulf to the present. Includes major works from each period to provide historical perspective. Designed for English majors and minors. Every semester. *Prerequisite: C or better in ENGL 101 or 111.*

ENGL 261 American Literature: Colonial to Present**3 cr.**

A survey of American literature from colonial times to the present. Includes works from each period to provide historical perspective. Designed for English majors and minors. Every semester. *Prerequisite: C or better in ENGL 101 or 111.*

- ENGL 270 European & Neo-European Literature** 3 cr.
Works, in translation, important to European and Neo-European cultures, such as selections from the Old Testament, the literature of ancient Greece and Rome, Italian, French, Spanish, German, Russian, etc., literatures. Fall. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 271 Asian & African Literature** 3 cr.
Including works, in translation, from Asian and African cultures, such as the major works of the Middle East, India, the African nations, China, and Japan. Spring. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 276 Adolescent Literature** 3 cr.
Definition, classification, and analysis of adolescent literature and its value. Contemporary and classical works appropriate for or written especially for adolescents. Spring. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 280 Mythology and Literature** 3 cr.
Greco-Roman literature, American Indian legends, and myths from diverse cultures examined in a literary and socio-cultural context. Variable. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 281 Literature Into Film** 3 cr.
Critical examination of how literary works are translated into film, analyzing the means by which the director and others (actors, cinematographers, editors) interpret the literary work being adapted. Weekly film viewing. Fall, even-numbered years. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 282 Shakespeare on Film** 3 cr.
A critical examination of Shakespeare's plays on film, considering the films as interpretations and adaptations. The emphasis will be both literary - how do the films interpret and revise Shakespeare's drama - and cultural - what do these films reveal about the culture that produced them. Weekly film viewing. Fall, odd-numbered years. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 290 Topics in Language and Literature** 3 cr.
A selected aspect of language or literature. May be taken more than once for credit if subtitle is different. Variable. *English 101 or 111 must be taken concurrently with or prior to ENGL 290.*
- ENGL 306 Introduction to English Linguistics** 3 cr.
A study of the grammars and grammatical aspects of English as well as of language use in society, language change, and language acquisition and processing. Every semester. *Prerequisite: C or better in ENGL 101 or 111.*
- ENGL 340 Shakespeare** 3 cr.
A selection from the histories, comedies, major tragedies, and problem plays or romances. Every semester. *Prerequisite: C or better in ENGL 101 or 111.*
- ENGL 344 Film Theory** 3 cr.
Critical survey of world film with an emphasis on theoretical schools and movements. Three hours discussion with a weekly film viewing. Spring, odd-numbered years. *Prerequisites: ENGL 101 or 111 or equivalent, ENGL 207 or permission of instructor.*
- ENGL 371 Literature of the Middle Ages** 3 cr.
Literature of the Anglo-Saxon and Medieval periods. Credit cannot be earned for both ENGL 371 and ENGL 411. Variable. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 372 Early Modern Literature** 3 cr.
Literature from the Early Modern Period or Renaissance (16th-17th centuries). Focus on British writers with attention to the literature of the discovery of the New World. Credit cannot be earned for both ENGL 372 and ENGL 307. Variable. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 373 Literature of the Enlightenment** 3 cr.
Literature of 1650-1750 in Great Britain and America that represents movements toward philosophical, spiritual, scientific, social, and personal enlightenment. Credit cannot be earned for both ENGL 373 and either ENGL 322 or ENGL 352. Variable. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 374 Literature of the Age of Revolution** 3 cr.
Literature of the mid and late eighteenth century on both sides of the Atlantic. Credit cannot be earned for both ENGL 374 and either ENGL 332 or ENGL 352. Variable. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 375 Romanticism** 3 cr.
Literature of Romantic movement in the 19th century, with attention to major themes of Romantic and Transcendental writers, on both sides of the Atlantic. Credit cannot be earned for both ENGL 375 and either ENGL 303 or ENGL 313. Variable. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 376 Realism and Naturalism** 3 cr.
Literature of the later 19th century from both sides of the Atlantic. Credit cannot be earned for both ENGL 376 and either ENGL 323 or ENGL 407. Variable. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 377 Modernism** 3 cr.
Literature from the turn of the twentieth century to WWII from both sides of the Atlantic. Credit cannot be earned for both ENGL 377 and either ENGL 407, ENGL 404, or ENGL 426. Variable. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 378 Postmodernism** 3 cr.
Literature written after WWII from both sides of the Atlantic. Credit cannot be earned for both ENGL 378 and either ENGL 408, ENGL 424, or ENGL 426. Variable. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 379 Postcolonial Literature** 3 cr.
Literatures of former British and other European colonies from the second half of the twentieth century through the present, with emphasis on issues such as colonialism, nationalism, and modernity. Variable. *Prerequisite: C or better in ENGL 101 or 111 or equivalent.*
- ENGL 416 History of the English Language** 3 cr.
From the beginning to contemporary usage; changes in sounds, grammatical and spelling forms, syntax, and vocabulary. Spring. *Prerequisite: C or better in ENGL 101 or 111.*
- ENGL 418 Second Language Acquisition: Theory & Application** 3 cr.
Introduction to theories of how children and adults learn second languages, with application to conducting research or to teaching/tutoring children and adults who are second language learners (principally English as a second language). Fall, even-numbered years.
- ENGL 431 World Drama I: Premodern** 3 cr.
World drama from the 5th Century B.C. Greeks to the late 19th century. Representative dramatists and forms from both the West and the East. Multicultural emphasis on the use and development of drama. Fall, even-numbered years. *Prerequisite: C or better in ENGL 101 or 111; ENGL 150/250 or THEA 106 or permission of instructor. Also offered as THEA 431.*
- ENGL 432 World Drama II: Twentieth Century** 3 cr.
World drama during the 20th century. Representative dramatists and forms from both the West and the East. Multicultural emphasis on the variety of dramatic forms. Spring, odd-numbered years. *Prerequisite: C or better in ENGL 101 or 111; ENGL 150/250 or THEA 106 or permission of instructor. Also offered as THEA 432.*
- ENGL 440 Literature of the Environment** 3 cr.
Critical, multi-cultural and historical study of literature of the environment, emphasizing the variety of attitudes toward the land in essays and poetry. Fall, odd-numbered years. *Prerequisite: C or better in ENGL 101 or 111.*
- ENGL 450 Women and Literature** 3 cr.
A cross-cultural study of womanhood as portrayed by male and female writers over the centuries. Fall, even-numbered years. *Prerequisite: C or better in ENGL 101 or 111.*
- ENGL 471 Seminar in Critical Theory** 3 cr.
Study of literary critical theory and application to an independent student project. Required of English majors in the literature concentration. Fall. *Prerequisites: C or better in ENGL 101 or 111; senior status.*

ENGL 480 Senior Seminar in English**3 cr.**

Integration of previous course material and student's own experience in the discipline for a critical analysis of a topic in literature. Topics will vary. Senior thesis required. Variable. *Prerequisite: C or better in ENGL 101 or 111.*

ENGL 489 English Capstone**1 cr.**

Conversion of students' working portfolios, accumulated during their careers as English majors, into "best works" collections for professional application and departmental assessment purposes. Other assessment activities possible. Every semester. *Prerequisite: senior status.*

ENGL 490 Selected Topics in English**3 cr.**

A select aspect or body of literature of limited scope and topical interest. Subject varies; see Academic Schedule for specific titles. Spring. Seniors only. *Prerequisite: C or better in ENGL 101 or 111.*

ENGL 499 Independent Study**1-3 cr.**

Guided reading and/or writing projects. Variable. *Prerequisites: permission of the department chair and a faculty director, normally given only to majors of junior or senior standing with at least a B average in the major.*

Reading Improvement and Development**ENGL 105 Critical Reading****3 cr.**

The reading process: development of literal comprehension and critical analysis in various content areas. Fall. *Students required to enroll in this course based upon results of the reading placement test administered by the University may not withdraw unless withdrawing from the University.*

Environmental Humanities**HUMA 495 Project in Environmental Humanities****3-9 crs.**

Guided field experience supplemented by appropriate readings and written reports leading to a substantial research paper or to a creative project. Both experiential and academic components are graded P/F. *Prerequisite: Completion of all other courses in the minor and permission of the Environmental Humanities Committee.*

Environmental Policy**EPOL 491 Seminar in Environmental Policy****3 cr.**

Designed to synthesize course work in Environmental Policy. Required of students completing a minor in Environmental Policy. Students will select topics, make presentations, and participate in discussions. Variable. *Prerequisite: permission of coordinator.*

Finance

You cannot receive credit for a both a FINA course and the same course formerly labeled BUAD.

FINA 301 Introduction to Personal Financial Planning**3 cr.**

Overview of elements in the personal financial planning process: goal identification and budgeting, tax management, insurance planning and risk management, investments planning, retirement income and benefits, and issues in estate planning. Fall.

FINA 303 Principles of Finance**3 cr.**

Introduction to basic principles of the three traditional divisions of finance: financial markets and institutions, investment and portfolio analysis, and corporate finance. Does not count for accounting majors. Spring. *Prerequisites: core skill requirement in mathematics, ACCT 211 and ECON 200 or ECON 201/211.*

FINA 370 Corporate Finance**3 cr.**

Principles of financial management within business enterprises. Basics of financial analysis, stocks and bonds valuation, capital budgeting, capital structure decisions, dividend policy, and working capital management. Every semester. *Prerequisites: MATH 106 or MATH 220, ACCT 211, ECON 201/211 and ECON 202/212. Prerequisite or corequisite: ACCT 212.*

FINA 371 Insurance Planning and Risk Management**3 cr.**

The nature of risk and its effect on the business enterprise. Various types of insurance, underwriting practices, actuarial and contractual problems, and government regulations. Spring.

FINA 375 Financial Institutions Management**3 cr.**

Concepts of financial intermediation, characteristics of institutions within the financial services industry, regulation, and financial innovation. Management of liquidity, credit, interest rate, and other risks in a global economic environment. Fall. *Prerequisite: FINA 370.*

FINA 377 Retirement Income Planning**3 cr.**

Retirement income savings planning. Characteristics of various pension plans. Management of defined contribution plans and defined benefit plans, investment of pension assets and performance evaluation of pension funds. Fall. *Prerequisites: ACCT 312 or FINA 301 or 303 or 370.*

FINA 381 Principles of Real Estate**3 cr.**

Industry principles and factors influencing the real estate business. Contracts, deeds, valuation, financing, and government regulation. Fall.

FINA 405 Short-term Financial Management**3 cr.**

Traditional analytical techniques and new approaches to liquidity management. Working capital accounts (cash, receivable, inventory and accounts payable management) and topics such as bank relations, off balance sheet financing, variance analysis models, improved liquidity indicators, and hedging techniques. Variable. *Prerequisite: FINA 370 or FINA 476.*

FINA 420 Entrepreneurial Finance**3 cr.**

Introduction to financial issues relevant to small and emerging businesses, with special emphasis on sourcing capital. Analysis of the financial needs of new business ventures, profit management and cash flow analysis, entrepreneurial capital budgeting, accessing government sources of financing, working capital management, long-term financial policy, as well as external expansion through mergers and acquisitions. Spring. *Prerequisite: FINA 370.*

FINA 451 Estate Planning & Advanced Topics in Financial Planning**3 cr.**

Study and application of the legal, tax, and human factors surrounding the efficient transfer of property including property ownership, probate, wills, intestacy, trusts, federal estate and gift taxation, contemporary techniques in individual estate planning, industry regulation and ethical practices for the estate planner. Synthesis of the financial planning process and discussion of advanced topics in financial planning. Variable. *Prerequisite: Three from FINA 301, FINA 371, FINA 377, FINA 475 and ACCT 420. Financial Planning Capstone.*

FINA 475 Securities Investment**3 cr.**

Investment opportunities in financial instruments. Valuation of fixed income, equity, and derivative securities. Evaluation of mutual funds. Investment strategies for portfolio management: portfolio selection, diversification, and performance analysis. Spring. *Prerequisite: FINA 370.*

FINA 476 Financial Management**3 cr.**

Financial planning and performance evaluation in the business enterprise; obtaining and investing funds. Case-study approach to financial decision-making: basic financial analysis, working capital management, capital budgeting, long-term financing, leasing, mergers, acquisitions, and bankruptcy. Not open to students who have credit for the former BUAD 376. Every semester. *Prerequisites: FINA 370 or both ACCT 312 and 315.*

FINA 477 International Financial Management**3 cr.**

Analysis of financial management in a multinational enterprise. Multinational working capital management, management of foreign exchange risks, translation and transaction exposure, participation in global financial markets, multinational capital budgeting, and political risks. You cannot receive credit for both FINA 477 and FINA 470. Fall. *Prerequisite: FINA 370.*

FINA 479 Financial Policy**3 cr.**

Advanced topics in corporate financial policy. Extensive case study and readings-based approaches to developing and implementing financial policy. Short-term financial planning, advanced capital budgeting, valuation of the firm, long-term strategic financial planning and issues of corporate restructuring. Spring. *Prerequisites: FINA 370 and FINA 375 or FINA 475 or FINA 476. Corporate Finance Capstone.*

FINA 490 Special Topics in Business Administration - Finance 3 cr.
A detailed study of a limited topic, problem, or period. Topics vary from semester to semester. Fall. *Prerequisites:* 90 credits and 18 hrs. of business administration course work.

FINA 494 Internship in Finance 3 or 6 cr.
Guided work experience in finance for commercial, nonprofit, or government organizations. Minimum of 135 clock hours of experience for 3 credits. Minimum of 270 clock hours of experience for 6 credits. Academic component consists of two research papers on experience-related topics and a detailed report on the field experience. Previous experience not acceptable for credit. Repeatable up to 6 credits. Every semester and summer. *Prerequisites:* Junior or senior standing; departmental approval.

FINA 499 Independent Study in Finance 1 - 3 cr.
Research and report on a specific topic not covered by regularly rostered courses. Topic will be defined by the student in conjunction with faculty sponsor. Proposals must be approved prior to registration. You cannot receive credit for a both a BMIS course and the same course formerly labeled BUAD. Course may be repeated for a maximum of 4 credits. Every semester. *Prerequisites:* 18 credits of business administration course work, 90 credits and permission of department chair.

Foreign Languages & Literature

Intercultural Studies

MDFL 111 Intercultural Understanding 3 cr.
The study of the concept of Culture as well as its multiple manifestations and the case study of three diverse peoples. Team taught. Variable. *GEP Group F.*

Special Topics

MDFL 190 Selected Topics in Foreign Lang. and Literature 3 cr.
A variable topic in a foreign language, literature, or culture other than French or Spanish such as Italian, Japanese, German, Portuguese or Chinese. Specific title listed in course schedule. May be repeated for credit if topics are substantially different. Variable.

MDFL 290 Selected Topics in Foreign Language & Literature 1-4 cr.
A variable topic in a foreign language, literature, or culture other than French or Spanish such as Italian, Japanese, German, Portuguese, or Chinese more advanced than MDFL 190. Specific title listed in course schedule. May be repeated for credit if topics are substantially different. Variable.

MDFL 390 Selected Topics in Foreign Language & Literature 1-4 cr.
A variable topic on language, literature or culture. Specific title listed on course schedule. May be repeated for credit if topics are substantially different. Variable. *Prerequisite:* permission of department.

Literature in Translation

MDFL 211 Introduction to World Literature I 3 cr.
Literary masterpieces in translation, illustrating spiritual, social, and esthetic life from ancient times through the Renaissance. Guest lectures in various literatures. Variable. *Prerequisite:* ENGL 101 or 111.

MDFL 212 Introduction to World Literature II 3 cr.
Literary masterpieces in translation from the 17th century to the present. Guest lectures in various literatures. Variable. *Prerequisite:* ENGL 101 or 111.

MDFL 301 Latin American Women's Issues 3 cr.
Study of the history and realities of Latin American women from the colonial period through contemporary Latin America. Variable. *GEP Group F.*

MDFL 407 Latin American and Spanish Film 3 cr.
A study principally of the most recent films from Latin America and Spain. Taught in English (may not be taken to satisfy the Spanish major). Not open to students with credit for SPAN 407. Two hrs. lecture and two hrs. lab. Variable.

MDFL 417 World Film 3 cr.
A study of the principal films from around the world. The course is organized geographically and chronologically. Variable. *Prerequisite:* junior or senior standing or permission of the instructor.

Linguistics

LING 301 Introduction to Language 3 cr.
Introduction to the study of language. The nature of language; language families; techniques of linguistic analysis; linguistic change. Conducted in English. Variable.

French

FREN 101 Basic Elements of French I 3 cr.
Fundamental skills: listening, speaking, reading, writing. Emphasis on active performance. Language laboratory. Not for students with high school or college French except by special placement. Fall.

FREN 102 Basic Elements of French II 3 cr.
Continued development of basic skills. Emphasis on active performance. Language laboratory. Spring. *Prerequisite:* FREN 101.

FREN 211 French Grammar, Composition, and Conversation I 3 cr.
Intensive grammar, oral command of the language, introduction to expository writing. Language laboratory. For students with two or more years of high school French, or FREN 102. Fall.

FREN 212 French Grammar, Composition & Conversation II 3 cr.
Sequel to FREN 211. Spring.

FREN 250 Overview of French Language and Culture 3 cr.
Survey of French language through study of major aspects of French and Francophone cultures. Serves as a gateway to advanced study in French. May be taken concurrently with a 300-level course. Fall. *Prerequisite:* FREN 212 or equivalent. *GEP Group B.*

FREN 330 Advanced Conversation 3 cr.
Emphasis on development and strengthening of oral-aural skills. Listening and speaking activities, simulation and role playing, phonetics and pronunciation practice. Extensive use of authentic audio and video materials, both recorded and live. Not open to students who have received credit for former FREN 311. Fall. *Prerequisite or corequisite:* FREN 250 or equivalent.

FREN 331 Advanced Composition 3 cr.
Emphasis on advanced grammar and reading and writing skills. Reading of authentic newspaper and magazine articles and current and relevant materials in the social sciences and other content areas. Not open to students who have received credit for former FREN 312. Spring. *Prerequisite or corequisite:* FREN 250 or equivalent.

FREN 332 French for the Professions 3 cr.
Vocabulary, reading, writing, and speaking for contact with the French professional world. Use of role-plays, authentic French business materials, analysis of French professional sectors, culture, and etiquette. Spring. *Prerequisite or corequisite:* FREN 250 or equivalent.

FREN 335 Intro. to French Literary Texts 3 cr.
Introduction to the current methodologies of literary analysis through the chronological study of selected writers and works from the Medieval period to the modern era. Not open to students who have received credit for former FREN 315. Variable. *Prerequisite or corequisite:* FREN 330, FREN 331 or FREN 332.

FREN 336 French Civilization Through Film and Literature 3 cr.
Broad survey of French history from the Renaissance to present day through analysis of French and Francophone film tradition, focusing on a specific, enduring theme of Francophone culture, and incorporating major literary works. Emphasis on aural/oral skills with some supplementary reading in French. Every other fall beginning 2006. *Prerequisite or corequisite:* FREN 250 or permission of instructor.

FREN 410 French Poetry and Drama 3 cr.
Masterpieces of French poetry and drama in esthetic and cultural context. Every other spring beginning Spring 2007. *Prerequisite:* FREN 250 or equivalent.

FREN 411 French Fiction, Non-Fiction and Film 3 cr.
Masterpieces of French fiction, non-fiction and film in esthetic and cultural context. Every other spring beginning Spring 2006. *Prerequisite:* FREN 250 or equivalent.

FREN 430 Individual and Society in Francophone World 3 cr.
Analysis of a problem or theme of French individual and social identity within the French social science and philosophical traditions. Every other fall beginning Fall 2006. *Prerequisite: FREN 250.*

FREN 431 Translation 3 cr.
Theory and practice of oral interpretation and written translation from French to English, using real-life examples from social sciences, commerce, natural sciences, media, and the law. Every other fall beginning Fall 2005. *Prerequisite FREN 250 or permission of instructor.*

FREN 490 Special Topics in French Language and Literature 3 cr.
A selected topic such as an author or work, a genre or theme, translation or interpreting. Variable. *Prerequisite: Completion of two 300-level French courses or permission of instructor.*

FREN 493 Senior Seminar in French Literature 3 cr.
Capstone in French literature incorporating dossier of written work, oral presentation, extended reading and critical analysis of French literary text or director of multiple films. *Prerequisite: 90 credits or permission of department chair.*

FREN 495 Internship in French 6-12 cr.
Guided work experience in a French speaking organization either in the US or abroad. Graded P/F. The credit is not applicable toward the major. Every semester and summer. *Prerequisites: junior or senior status, major or minor in French, and permission of department.*

FREN 496 Senior Seminar in French Professional Studies 3 cr.
Capstone in French Professional Studies incorporating dossier of written work, oral presentation, and internship or research project. *Prerequisite: 90 credits or permission of department chair.*

FREN 498 Readings in French 1 to 4 cr.
Intensive readings and a term paper. Variable. *Prerequisites: three 300-level French courses and permission of instructor.*

FREN 499 Individual Problems in the French Language 1 to 4 cr.
Individual research or activity requiring submission of a final paper or completed project. Variable. *Prerequisites: three 300-level French courses and permission of instructor.*

Spanish

SPAN 101 Basic Elements of Spanish I 3 cr.
Fundamental skills: listening, speaking, reading, writing. Emphasis on active performance. Language laboratory. Not for students with high school or college Spanish except by special placement. Every semester.

SPAN 102 Basic Elements of Spanish II 3 cr.
Continued development of basic skills. Emphasis on active performance. Language laboratory. Variable. *Prerequisite: SPAN 101.*

SPAN 211 Spanish Grammar, Composition, & Conversation I 3 cr.
Intensive grammar, oral command of the language, introduction to expository writing. Language laboratory. For students with at least two years of high school Spanish, or SPAN 102. Every semester.

SPAN 212 Spanish Grammar, Composition, & Conversation II 3 cr.
Sequel to SPAN 211. Variable.

SPAN 250 Overview of Spanish Language & Culture 3 cr.
Survey of Spanish language through study of major aspects of Spanish and Latin American cultures. Serves as a gateway to advanced study in Spanish. May be taken concurrently with a 300-level course. Every semester. *Prerequisite: SPAN 212 or equivalent. GEP Group B.*

SPAN 330 Spanish for Practical Communication I 3 cr.
Emphasis on development and strengthening of oral-aural skills. Listening and speaking activities, simulation and role playing, phonetics and pronunciation practice. Extensive use of authentic audio and video materials, both recorded and live. Not open to students who have received credit for former SPAN 311. Variable. *Prerequisite or corequisite: SPAN 250 or equivalent.*

SPAN 331 Spanish for Practical Communication II 3 cr.
Development of fundamental writing skills through review of specific grammatical topics and analysis of significant reading selections. Conducted entirely in Spanish. Not open to students who have received credit for SPAN 312. Variable. *Prerequisites or co-requisites: SPAN 250 or equivalent.*

SPAN 332 Spanish for the Professions 3 cr.
Builds essential language skills to communicate effectively in Spanish in professional settings. Emphasis on the acquisition of vocabulary pertinent to the professions and important in several types of verbal and written professional forms of communication. Conducted entirely in Spanish. Variable. *Prerequisites or co-requisites: SPAN 250 or equivalent.*

SPAN 333 Introduction to Culture and Civilization of Spain 3 cr.
Spanish culture: political, literary, economic, social, and artistic life in Spain. Not open to students who have received credit for former SPAN 313. Variable. *Prerequisite or corequisite: SPAN 250 or equivalent.*

SPAN 334 Introduction to Culture & Civilization of Latin America 3 cr.
Latin American culture: political, literary, economic, social, and artistic life in Latin America. Not open to students who have received credit for former SPAN 314. Variable. *Prerequisite or corequisite: SPAN 250 or equivalent.*

SPAN 335 Introduction to Study of Spanish Literature 3 cr.
Esthetics of Spanish poetry, fiction, and drama. Not open to students who have received credit for former SPAN 315. Variable. *Prerequisite or corequisite: SPAN 250 or equivalent.*

SPAN 401 Literature of Spain I 3 cr.
Survey of literature of Spain from the Middle Ages through the seventeenth century. Representative figures and major literary developments. Variable. *Prerequisites: SPAN 250 and two 300-level Spanish courses.*

SPAN 402 Literature of Spain II 3 cr.
Survey of literature in Spain from the eighteenth century to the present. Representative figures and major literary developments. Variable. *Prerequisites: SPAN 250 and two 300-level Spanish courses.*

SPAN 403 Spanish American Literature I 3 cr.
Survey of literature in Latin America from the Pre-Hispanic period through the early twentieth century. Representative figures and major literary developments. Variable. *Prerequisites: SPAN 250 and two 300-level Spanish courses.*

SPAN 404 Spanish American Literature II 3 cr.
Survey of literature in Latin America from the early twentieth century to the present. Representative figures and major literary developments. Variable. *Prerequisites: SPAN 250 and two 300-level Spanish courses.*

SPAN 405 Business Spanish 3 cr.
The study of specialized vocabulary and language and of business practices of both Latin America and Spain. Variable. *Prerequisites: two 300-level Spanish courses.*

SPAN 406 Literature and Culture of the Andean Region 3 cr.
The study of literature (poetry, novel, short story, essay) principally of Ecuador, Bolivia, and Peru in its cultural context. Offered only in Ecuador session. Variable.

SPAN 407 Latin American and Spanish Film 3 cr.
A study principally of the most recent films from Latin America and Spain. 2 hours lecture and 2 hours lab. Not open to students with credit for MDL 407. Variable. *Prerequisites: Two 300-level Spanish courses.*

SPAN 408 Comparative Grammar and Translation 3 cr.
Spanish to English and English to Spanish translation. Also, a comparison of English and Spanish grammar and lexicon. Variable. *Prerequisites: Three 300-level Spanish courses or permission of instructor.*

SPAN 425 Latinos in the USA 3 cr.
Identification, study, analysis, and consideration of the different origins, circumstances of living, problems and achievements of Latino communities in the United States. Variable. *Prerequisites: Two 300-level Spanish courses or permission of the instructor.*

SPAN 435 Literature of Women Writers**3 cr.**

Critical survey of the work of women writers from the Spanish-speaking world including some writers from the U.S.A. who write in Spanish. The survey includes ample range of writing from poetry to movie scripts. Variable. *Prerequisites:* Two 300-level Spanish courses or permission of instructor.

SPAN 489 Capstone in Spanish**0 cr.**

Capstone experience in Spanish language and cultures, incorporating an oral presentation, dossier of written work, faculty assessment of language and cultural proficiency, and articulation of goals for the use of the language and culture in professional setting. Every semester. *Prerequisite:* 90 credits or permission of department chair.

SPAN 490 Special Topics in Hispanic Language & Literature**3 cr.**

A selected topic such as an author or work, a genre or theme, translation or interpreting. Variable. *Prerequisites:* two 300-level Spanish courses and permission of instructor.

SPAN 495 Internship in Spanish**6-12 cr.**

Guided work experience in a Spanish speaking organization either in the US or abroad. Graded P/F. The credit is not applicable toward the major. Every semester and summer. *Prerequisites:* junior or senior status, major or minor in Spanish, and permission of department.

SPAN 498 Readings in Spanish**1 to 4 cr.**

Intensive readings and a term paper. Variable. *Prerequisites:* three 400-level Spanish courses and permission of instructor.

SPAN 499 Individual Problems in Spanish Language**1 to 4 cr.**

Individual research or activity requiring submission of a final paper or completed project. Variable. *Prerequisite:* three 300-level Spanish courses and permission of instructor.

Geography

GEOG 103 Physical Geography**4 cr.**

Earth-sun relations, map reading and interpretations, landforms, elements of weather and climate, and climate regions. Three hrs. lecture and 2 hrs. lab. Every semester. *GEP Group C.*

GEOG 104 Human Geography**3 cr.**

Systematic consideration of factors influencing the distribution of human beings in relation to population dynamics and migration, economic development and urbanization, and cultural diversity. Every semester. *GEP Groups D and F.*

GEOG 110 World Regional Geography: Cultural Diversity**3 cr.**

Earth's natural and cultural diversity, their interconnections, and their dynamic processes examined in each major world region. Variable. *GEP Group F.*

GEOG 113 Honors: Physical Geography**4 cr.**

Earth-sun relations, map reading interpretation, landforms, elements of weather and climate, and climate regions. Three hrs. lecture, 2 hrs. lab, and four Saturday field trips. Variable. Credit cannot be earned for both GEOG 103 and GEOG 113. *Prerequisite:* acceptance into the Honors Program or permission of instructor. *GEP Group C.*

GEOG 114 Honors: Human Geography**3 cr.**

Systematic consideration of factors influencing the distribution of human beings in relation to population dynamics and migration, economic development and urbanization, and cultural diversity. Credit cannot be earned for both GEOG 104 and GEOG 114. Spring. *Prerequisite:* acceptance into the Honors Program or permission of instructor. *GEP Groups D and F.*

GEOG 150 Earth, Wind, and Fire: An Environmental Science**Approach to Natural Hazards and Disasters****3 cr.**

Survey of the environmental science of natural hazards and disasters, including floods, hurricanes, volcanoes, earthquakes, landslides and global climate change. Discussion of impacts to society caused by hazards and disasters, and human activities increasing hazards and disasters. Consideration of the risk of disasters and hazards. Variable.

GEOG 207 Physical Geology**4 cr.**

Recognition and interpretation of landscape features. Structure and epigenic processes. Rock and mineral identification, interpretation of topographic and geologic maps, geologic cross-sections, and aerial photographs. One field trip may be required. Three hrs. lecture and 2 hrs. lab. Not open to students who have credit for former GEOG 307. Spring. *Prerequisite:* GEOG 103 (or 113) or permission of instructor.

GEOG 208 Historical Geology**4 cr.**

Chronology of the earth's history from hypothesized origins through the Holocene. Paleogeography, paleotectonics, and floral and faunal evolution. Lab study of sediments, fossils as indicators of rock age and environment, and geologic maps and structure sections. One field trip may be required. Three hrs. lecture and 2 hrs. lab. Not open to students who have credit for former GEOG 308. Fall. *Prerequisite:* GEOG 103 (or 113) or permission of instructor.

GEOG 275 Fundamentals of Geographic Data Handling**3 cr.**

Exploring sources, characteristics, and types of geospatial data. Discussion of techniques for manual and automated handling of geographically referenced information. Two hrs. lecture and 2 hrs. lab. Every semester. *Prerequisites or co-requisites:* GEOG 103 (or 113) and MATH 209, or permission of instructor. Tech. Fluency.

GEOG 300 Economic Geography**3 cr.**

The distribution of world economic activities. Agriculture, mining, the manufacturing industries, trade, and transportation. Fall. *Prerequisite:* GEOG 104/114 or GEOG 110 or sophomore standing.

GEOG 301 Geography of North America**3 cr.**

Major national and geographic regions of the United States, Canada, and Mexico. Relationship between natural and economic factors. Fall, odd-numbered years. *Prerequisite:* GEOG 103/113 or GEOG 104/114 or GEOG 110 or permission of instructor.

GEOG 302 Geography of Maryland**3 cr.**

A geographic analysis of the State. Spring. *Prerequisite:* GEOG 103/113 or GEOG 104/114 or GEOG 110 or permission of instructor.

GEOG 310 Fundamentals of Cartography**3 cr.**

The art and science of compiling and producing thematic maps as a medium for communication and research. Emphasis is on map design, symbolization, and data classification through desktop mapping and map animation software applications. Two hrs. lecture and 2 hrs. lab. Every semester. *Prerequisites:* GEOG 103 (or 113), GEOG 104 (or 114), GEOG 110 or permission of instructor.

GEOG 317 Principles of Geographic Information Science**3 cr.**

An examination of the basic theory, concepts, data structures, operations, and applications of geographic information systems (GIS) as a science. Lectures supplemented by computer-based laboratory exercises. Two hrs. lecture and 2 hrs. lab. Fall. *Prerequisites:* GEOG 275 and completion of two mathematics courses, or permission of instructor. GEOG 310 recommended.

GEOG 320 Geography of Latin America**3 cr.**

Physical and human processes that explain the spatial patterns and landscapes of Latin America. Spring, even-numbered years. *Prerequisite:* GEOG 103/113 or GEOG 104/114 or GEOG 110 or permission of instructor.

GEOG 324 Urban Geography: Internal City Patterns**3 cr.**

Introduction to urban North American land use and social activities. Theories of internal urban patterns, present patterns, and implications for the future. Housing patterns, commercial and industrial activities, urban transportation, political fragmentation, and the potential role of urban planners. Spring. *Prerequisite:* GEOG 104/114 or GEOG 110 or sophomore standing.

GEOG 325 Urban Geography: Metropolitan Systems**3 cr.**

Introduction to urban areas and their distribution. Locational characteristics of cities as centers of manufacturing, distribution, and services. Historic growth patterns and planning strategies for future development. Fall. *Prerequisite:* GEOG 104/114 or GEOG 110 or sophomore standing.

GEOG 335 Oceanography**3 cr.**

Basic principles of oceanographic science and discussion of the role of oceans in global environmental systems. Variable. Also offered as SCIE 335. *Prerequisite:*

quisites: GEOG 103 (or 113), BIOL 149, and completion of a college level mathematics course.

GEOG 340 Soil: Genesis, Nature and Characterization 3 cr.
Origin and processes of soil formation, change with time and environmental factors including use, identification and delineation on the landscape, and interpretation and usage of soil surveys. GEOG 207 completion or co-registration strongly recommended. Two hrs. lecture and 2 hrs. lab./field session. Not open to students who have credit for former GEOG 440. Spring. *Prerequisite:* GEOG 103 (or 113) or permission of instructor.

GEOG 380 Research Methods in Geography 3 cr.
Examines qualitative and quantitative methods for handling geo-spatial data. Design of geographic research, approaches to data collection and synthesis, inferential and descriptive geo-spatial statistics, and presentation of findings. Spring. *Prerequisites:* GEOG 275 and 9 hrs. of geography or permission of instructor.

GEOG 401 Geography of Europe 3 cr.
Physical, historical, and cultural features that have shaped the current landscapes of Europe. Three hrs. lecture. Spring, odd-numbered years. *Prerequisite:* GEOG 103/113 or GEOG 104/114 or GEOG 110 or permission of instructor.

GEOG 402 Geography of Russia and the Former Republics 3 cr.
Population, agriculture, mining, manufacturing, trade, and transportation of Russia and adjacent states. Human adjustment to the physical environment of the various regions. Fall, odd-numbered years. *Prerequisite:* GEOG 103/113 or GEOG 104/114 or GEOG 110 or permission of instructor.

GEOG 403 The Geography of Sub-Sahara Africa 3 cr.
Cultural, economic, physical and political potentials of Sub-Sahara Africa. Complex spatial patterns that define the Sub-Sahara African landscape. Fall, even-numbered years. *Prerequisite:* GEOG 103/113 or GEOG 104/114 or GEOG 110 or permission of instructor.

GEOG 405 Climatology 3 cr.
Controls, classifications, selected regions, and world patterns of climates. Fall, odd-numbered years. *Prerequisite:* GEOG 103 (or 113) or permission of instructor.

GEOG 406 Management and Conservation of Natural Resources 3 cr.
Current problems associated with the use and misuse of natural resources. Fall, even-numbered years. *Prerequisites:* GEOG 103 (or 113) and GEOG 104 (or 114) or permission of instructor.

GEOG 407 Political Geography 3 cr.
The world patterns of nations; geographic factors affecting the background and present development of countries. Fall. *Prerequisite:* GEOG 104/114 or GEOG 110 or junior standing.

GEOG 410 Locational Analysis 3 cr.
Theories and methods of analyzing and explaining the spatial location of economic activities. Emphasis on theoretical, methodological and practical issues. The relationship between consumer behavior and the location of industrial and service facilities is examined. Spring, even-numbered years. *Prerequisite:* GEOG 104/114 or GEOG 110 or junior standing.

GEOG 412 Geographic Visualization 3 cr.
Explores cartographic applications of computer animation, multimedia presentations and interface design for research, data exploration, and visual communication of geo-spatial ideas. Spring even-numbered years. *Prerequisites:* GEOG 275 and GEOG 310 or permission of instructor.

GEOG 413 Remote Sensing — Aerial Photo Interpretation 3 cr.
Remote sensing principles; fundamentals of aerial photographs and images (multispectral, thermal, and radar), photo measurements, principles of image identification and photo interpretation, introductory digital image processing and analysis of earth's surface features. Exposure to digital image processing software techniques. Two hrs. lecture and 2 hrs. lab. Fall. *Prerequisite:* GEOG 275 or permission of instructor.

GEOG 414 Digital Image Processing and Analysis 3 cr.
Digital image processing and analysis related to environmental and natural resource management. Satellite data acquisition, data formats and packaging techniques, image processing and analytical techniques, image classification

and interpretation, integration of digital image processing applications and modeling with GIS. Two hrs. lecture and 2 hrs. lab. Spring. *Prerequisites:* GEOG 275 and GEOG 413 or permission of instructor.

GEOG 415 Applied Design in the Mapping Sciences 3 cr.
Examines maps as means of visual communication, map use (and misuse), cognition, design theory, visual variables, and color theory. Computer based exercises and a final project. Fall. Two hr. lecture, 2 hr. lab. *Credit may not be earned for both GEOG 415 and GEOG 315. Prerequisites:* GEOG 275 and GEOG 310.

GEOG 417 Geospatial Analysis 3 cr.
Further exploration of GIS theory and applications of spatial analysis and modeling. Includes spatial modeling, building geodatabases by integrating data from separate sources, scripting languages and techniques, and electronic map serving. Student-led discussions and computer-based lab exercises. Two hrs. lecture and 2 hrs. lab. Spring. *Prerequisite:* GEOG 317 or permission of instructor.

GEOG 418 Cartometrics 3 cr.
Examines the map's role as a tool for measuring geo-referenced data including spatial transformations, interpolation and generalization. Computer based projects, selected readings and group discussion. Spring, odd-numbered years. Two hrs. lecture and 2 hrs. lab. *Prerequisites:* GEOG 310 and GEOG 317.

GEOG 421 Regional Planning 3 cr.
Contemporary topics in regional planning and development. Group and individual projects and research. Every third semester beginning Fall 2002. *Prerequisite:* GEOG 325 or permission of instructor.

GEOG 425 Geography of Transportation 3 cr.
The linkages and flows of goods, services, and people from area to area. The influence of various transportation modes in the historical development of regions; the role of transportation planning in shaping future metropolitan and regional settlements. Spring, odd-numbered years. *Prerequisite:* GEOG 104/114 or GEOG 110 or junior standing.

GEOG 427 Geography of Languages and Religions 3 cr.
Languages and religions examined from a geographic perspective. Emphasis placed on the five geographic themes of culture region, cultural diffusion, cultural integration, cultural landscape, and cultural ecology. Fall, even-numbered years. *Prerequisite:* GEOG 104/114 or GEOG 110 or junior standing. (GEP Group F).

GEOG 430 Surface Water Hydrology 4 cr.
Physical principles governing occurrence and movement of water, including precipitation, evaporation and transpiration, runoff, infiltration, soil water movement, and stream channel morphology. Lab/field experience with stream gauging, infiltration measurement, soil hydraulic conductivity, flow frequency analysis and related phenomena. Human influence on surface water hydrology. Three hrs. lecture and 2 hrs. lab. Fall. *Prerequisite:* GEOG 103 (or 113) or permission of instructor.

GEOG 431 Glacial and Pleistocene Geomorphology 3 cr.
Glacial phenomena associated with the recent Ice Age and the Holocene. Techniques to reconstruct glacial environments; erosional and depositional micro-and macro-landforms; and glacial stratigraphy. One two-day field trip required. Spring, even-numbered years. *Prerequisite:* GEOG 103 (or 113) or permission of instructor.

GEOG 432 Groundwater Hydrology 3 cr.
Principles governing the physical and chemical nature of water below the earth's surface, including fundamental concepts of groundwater flow, water-rock interaction, and groundwater-surface water interactions. Exploration of human influence on the groundwater environment. Spring. *Prerequisites:* GEOG 207 and MATH 220 or MATH 236, or permission of instructor.

GEOG 433 Surveying and Field Techniques 3 cr.
Theory of measurements, computation, and instrumentation; field work, use of Global Positioning Systems (GPS) and compilation of topographic base maps; evaluation of errors; profiling, grading, slope and grade stakes. Fieldwork will include use of a variety of instruments. One hr. lecture and 4 hrs. lab. Fall. *Recommended:* MATH 103 and GEOG 275.

- GEOG 441 Soil Analysis** 3 cr.
Physical and chemical characteristics of soils as they relate to suitability for plant growth and reproduction. Laboratory and field testing of soil and soil-forming material. Physical properties of soil, moisture relationships, organic matter content, and chemical constituents. Two hrs. lecture and 2 hrs. lab/field session. Fall. *Prerequisite:* GEOG 340 or permission of instructor.
- GEOG 445 Biogeography** 3 cr.
Patterns of plant and animal distributions in the landscape are stressed and are considered in light of historical, environmental and biotic influences. Historical development of contemporary regional distributions, survey of world biomes and the importance of disturbance and human-induced changes on biotic distributions are considered. Spring. *Prerequisite:* GEOG 103 (or 113) or BIOL 149. BIOL 340 is recommended.
- GEOG 450 Urban Planning** 3 cr.
City planning: needs assessment, land use suitability, policy, and design. Participation in limited scope planning projects. Every third semester beginning Spring 2003. *Prerequisite:* GEOG 324 or permission of instructor.
- GEOG 454 Geography of Tourism** 3 cr.
A review of the geographical distribution of tourism, travel patterns and tourism impacts on natural environments and local populations. Fall. *Prerequisite:* GEOG 104/114 or GEOG 110 or junior standing.
- GEOG 455 Tourism Planning** 3 cr.
Planning activities associated with the development and marketing of tourist activities. Consideration of both business and leisure travel. Group project focus. Spring, even-numbered years. *Prerequisite:* GEOG 454.
- GEOG 460 Natural Hazards in the Physical Environment** 3 cr.
Study of hazards to human society arising from wind, water, and earth either independently or from human activities. Perception, prevention, and mitigation of hazards; spatial distribution and impact on global populations. Variable. *Prerequisite:* GEOG 103 or permission of instructor.
- GEOG 465 Environmental Health** 3 cr.
Investigation of the relationship between human exposure to environmental pollutants and resultant adverse health effects. Consideration of epidemiology, exposure assessment, risk assessment and risk management. Variable. Also offered as BIOL 465. *Prerequisite:* completion of two laboratory science courses.
- GEOG 470 Soil and Water Engineering** 4 cr.
Principles and methods for soil and water management related to surface land disturbances. Methods for calculating storm runoff and erosion, design of flow conveyances and water detention basins, and computer assisted modeling. Three hrs. lecture and 2 hrs. lab. Fall. *Prerequisites:* Completion of GEOG 103 and GEOG 275, or permission of the instructor.
- GEOG 471 Engineering for Land Development** 3 cr.
Basic engineering techniques used in designing landforms, drainage systems, and roadways for land development projects. An overview of project development, equipment and management strategies. Two hrs. lecture, 2 hrs. lab. Spring. *Prerequisites:* Completion GEOG 103 and GEOG 275, or permission of the instructor.
- GEOG 472 Environmental Planning** 3 cr.
Principles and methods used in environmental assessments and site analysis. Students will prepare an environmental impact statement, site development plan, or mine reclamation plan. Two hrs. lecture, 2 hrs. lab. Spring. *Prerequisite:* GEOG 103 (or 113) or permission of the instructor. Capstone for Environmental Analysis and Planning major.
- GEOG 473 Environmental Law** 3 cr.
A survey of federal and state environmental laws and regulations. History and role of environmental regulation related to air and water pollution, waste disposal, and resource development. Fall. *Prerequisite:* GEOG 103/113 or junior standing.
- GEOG 480 The Geographic Perspective** 3 cr.
The historical development of geographic thought with an emphasis on how geographers structure research questions. Spring. *Prerequisite:* senior standing and 18 hours of geography completed.
- GEOG 481 Geography Capstone** 0 cr.
Creation of a portfolio comprised of student work that demonstrates achievement of the established learning goals for the Geography major. Grade P/F. Every semester. *Prerequisite:* Senior standing or permission of department chair.
- GEOG 485 Senior Project** 1 cr.
Capstone project in Urban and Regional Planning. Completion of independent project with public presentation of findings. Grade P/F. Every semester. *Corequisite:* GEOG 421 or GEOG 450.
- GEOG 486 Earth Science Capstone** 0 cr.
Capstone portfolio in Earth Science. Collection of students' work which demonstrates achievement of established learning goals for Earth Science program. For professional application. Graded P/F. Every semester. *Prerequisite:* Senior standing or permission of department chair.
- GEOG 488 Environmental Practicum** 3 cr.
A self-paced, independent research study capstone course for concentrators in Environmental Science in Earth Science. The student will select an environmentally-related topic in consultation with his/her advisory committee, prepare a research proposal, conduct a literature review and/or collect field data, and complete a substantive research paper (adhering to the format of a major professional journal) which is also presented in an open public forum. Every semester, summer. *Prerequisites:* completion of 24 credit hours in this concentration, senior standing, GPA of at least 2.0 in the concentration and approval of department chair prior to registration.
- GEOG 490 Special Topics in Geography** 3 cr.
A specialized topic or recent development in geography. Variable. May be repeated for credit if topics are substantially different. *Prerequisite:* 6 hrs. of geography or permission of instructor.
- GEOG 492 Internship: Research in Geography** 3 or 6 cr.
Academic component of internship. Requires co-registration in 495. Graded A-F. Every semester, summer.
- GEOG 495 Internship in Geography** 6 or 9 cr.
Experiential component of internship: guided work experience in conjunction with 492; must directly relate to academic program. Interns register for 9 credits in 495 and 6 credits in 492 or 6 credits in 495 and 3 credits in 492. Co-registration in other courses requires prior approval of the internship coordinator. Graded P/F. Every semester, summer. *Prerequisites:* major in Geography, Earth Science, Urban and Regional Planning, or Environmental Analysis and Planning with 24 hrs. completed, senior status, GPA of at least 2.5 in the major; approval of Department Chair; attendance at orientation meeting in semester prior to internship; submission of internship application by fifth week of semester prior to internship (application includes a resume and an internship proposal); requirements of cooperating agency, if any.
- GEOG 499 Research in Geography** 1-6 cr.
Research in field of interest chosen by student and faculty. Every semester, summer. Repeatable to 6 credits. *Prerequisites:* minimum of 15 hrs. of geography completed, GEOG 380, and permission of Department Chair.

Health and Physical Education

Health Courses

- HEED 100 Personal Wellness** 2 cr.
Students will be assisted in developing an understanding of and appreciation for the importance of including lifelong wellness practices and physical activities in their daily lives. Students plan, implement and evaluate own wellness plan. Every semester.
- HEED 101 Community Health Promotion** 3 cr.
Explores all purposeful activities designed to improve personal and public health through a combination of strategies, including the implementation of behavioral change, health education, health protection, risk factors, health enhancement and health maintenance. Every semester.
- HEED 103 Foundations of Exercise & Sport Science** 3 cr.
The study of both the history and philosophy of exercise and sport science. Emphasis placed on the subdisciplines of athletic training and health/fitness. Every semester.
- HEED 104 Foundations of Health Education** 3 cr.
Introduction to theories and practices guiding professional health educator responsibilities and competencies. Spring. *Prerequisite: PHEC 103 or PHEC 170.*
- HEED 125 Health and Culture** 3 cr.
An examination of personal and community health issues and problems as experienced across the cultural landscape of the United States. Fall. *GEP Group F.*
- HEED 200 Nutrition** 3 cr.
Principles of nutrition. The effect of food habits on family health. Nutritional requirements for different stages of human development. Application to various economic levels and social backgrounds. Every semester.
- HEED 202 Coordinated School Health Program** 3 cr.
The concept and implementation of a coordinated school health program from social, economic, health, and education perspectives. Fall.
- HEED 206 Introduction to Athletic Training** 3 cr.
Provides the student interested in Athletic Training the first extensive exposure to the field. Focuses on the theoretical base of the field as well as introductory injury prevention and management concepts. Fall. *Prerequisite: HEED 103.*
- HEED 207 Tobacco and Other Drugs** 1 cr.
Tobacco and Other Drugs content and theory as it relates to the school health education program. Fall. *Prerequisite: HEED 104.*
- HEED 208 Health Education For Special Populations** 1 cr.
Special understanding necessary to the adaptation of health education to disabilities of individual persons. Fall. *Prerequisite: HEED 104.*
- HEED 209 Safety and First Aid** 1 cr.
Safety and First Aid content and theory as it relates to the school health education program. Fall. *Prerequisite: HEED 104.*
- HEED 210 Athletic Taping and Bracing Techniques** 1 cr.
The art and science of applying athletic tape and braces in the prevention and treatment of athletic injuries. Fall.
- HEED 220 School Health Nutrition** 1 cr.
Nutrition content and theory as it relates to the school health education program. Spring. *Prerequisite: HEED 104.*
- HEED 221 Family Life and Sex Education** 1 cr.
Family Life and Sex Education content and theory as it relates to the school health education program. Spring. *Prerequisite: HEED 104.*
- HEED 222 Emergency Medical Techniques in Athletic Training** 1 cr.
An introduction to the daily management of the athletic training clinical environment. Fall.
- HEED 223 Clinical Experiences in Athletic Training I** 1 cr.
An introduction to the daily management of the athletic training clinical environment. Spring.
- HEED 224 Mental and Emotional Health** 1 cr.
Mental and Emotional Health content and theory as it relates to the school health education program. Spring. *Prerequisite: HEED 104.*
- HEED 225 Consumer and Environmental Health** 1 cr.
Consumer and Environmental Health content and theory as it relates to the school health education program. Fall. *Prerequisite: HEED 104.*
- HEED 226 Community Health** 1 cr.
Community Health Education content and theory as it relates to the school health education program. Fall. *Prerequisite: HEED 104.*
- HEED 227 Disease Prevention** 1 cr.
Disease prevention content and theory as it relates to the school health education program. Fall. *Prerequisite: HEED 104.*
- HEED 305 Care and Prevention of Athletic Injuries** 3 cr.
Introduction to athletic injury management. Emphasis on prevention and care of muscular skeletal injuries. Spring.
- HEED 306 Organization & Administration of Exercise & Sports Science** 3 cr.
Effective administration and management strategies in exercise and sport science. Human resource management, financial management, facility design and planning, client management issues, and legal liability issues addressed. Emphasis on athletic administration, athletic training and health/fitness management. Fall.
- HEED 311 Assessment & Evaluation Methodology** 3 cr.
Testing and measurement techniques; evaluation procedures. Practice in testing and interpretation. May not be taken by students who have credit for former PHEC 311. Fall.
- HEED 318 Orthopedic Assessment I: Upper Extremity** 4 cr.
General and specific athletic injury assessment procedures. Emphasis is placed on the upper extremity, head, abdomen, throat, and thorax assessment. 3 hrs. lecture, 2 hrs. lab. Spring. *Prerequisite: HEED 206.*
- HEED 319 Orthopedic Assessment II: Lower Extremity** 4 cr.
General and specific athletic injury assessment procedures Emphasis is placed on the spine, pelvis, and lower extremity including gait and postural analysis. 3 hrs. lecture, 2 hrs. lab. Fall. *Prerequisite: HEED 318.*
- HEED 320 Pharmacology and General Medical Conditions** 3 cr.
Pathology and clinical information about various general medical conditions commonly seen in the physically active. Spring.
- HEED 322 Clinical Experiences in Athletic Training II** 1 cr.
The in-depth study of both the theoretical and practical clinical aspects of athletic training. Fall.
- HEED 323 Clinical Experiences in Athletic Training III** 1 cr.
The continued in-depth study of both the theoretical and practical clinical aspects of athletic training. Spring.
- HEED 330 Epidemiology of Health and Disease** 3 cr.
Examination of the contributions of lifestyle, genetics, environmental and social factors, and health care access to health and well-being of individuals and populations. Variable. *Prerequisite: HEED 101.*
- HEED 404 Health Instruction** 3 cr.
Basic concepts of health education. Implementing a health education program for grades K-12. Every semester. *Required in BLOCK semester prior to PHEC 497 for Teacher Education.*
- HEED 405 Sexuality** 3 cr.
Family relationships and human sexuality. Physical and mental health, and sociological considerations of sex education. Every semester. *Prerequisite: junior standing.*
- HEED 408 Therapeutic Modalities in Sports Medicine** 4 cr.
The study of both the theoretical basis and practical usage of various therapeutic modalities. Designed for individuals who routinely treat sports-related injuries. 3 hrs. lecture, 2 hrs. lab. Spring. *Prerequisite: HEED 318.*

- HEED 413 Rehabilitation Techniques in Sport Medicine** 4 cr.
Various aspects of the rehabilitation process for the physically active or athletic population. Goals, techniques, evaluation methods and specific rehabilitation programs covered. Credit cannot be earned for both HEED 413 and PHEC 413. 3 hrs. lecture, 2 hrs. lab. Fall. *Prerequisite: HEED 319.*
- HEED 416 Curriculum Design in Health Education** 3 cr.
Health Education curriculum development, implementation, and evaluation; implementation of program strategies from evaluation results. Fall.
- HEED 418 Current Issues in Health** 3 cr.
Identification and investigation of problems and solutions relevant to existing or emergent health topics. Spring.
- HEED 422 Clinical Experiences in Athletic Training IV** 1 cr.
Summary of NATA competencies required for certification examination. Emphasis is placed on clinical decision making skills. Fall. *Prerequisites: HEED 322 and HEED 323. Athletic Training Capstone.*
- HEED 423 Clinical Experiences in Athletic Training V** 1 cr.
Summary of NATA competencies required for certification examination. Emphasis is placed on clinical managerial skills. Spring. *Prerequisites: HEED 322 and HEED 323. Athletic Training Capstone.*
- HEED 430 Methods & Materials for Health Promotion** 3 cr.
Development of skills to formulate program goals, delineate program objectives, employ a variety of educational techniques, select resources, and integrate behavior change strategies for individual and population-based health education and promotion programs. Variable. *Prerequisites: HEED 101, HEED 330.*
- HEED 435 Health Promotion Programming** 3 cr.
Development and application of skills in planning, implementation, and evaluation of multi-level health promotion programs. Variable. *Prerequisite: HEED 430.*
- HEED 492 Seminar in Health Promotion** 3 cr.
Monthly full day seminar meetings addressing work-related topics. Students must be enrolled in HEED 495 and have completed all other course work. Every semester.
- HEED 495 Internship in Health Promotion** 9 cr.
Special work experiences related to the health promotion academic program. Full-time students must register for a minimum of 9 credit hours of internship. Graded P/F. Variable. *Prerequisite: Completion of 90 credit hours or more with a "C" or better in the concentration and senior status.*
- Physical Education**
One credit activity courses meet twice a week for a semester or four periods per week for a quarter.
- PHEC 103 Foundations of Physical Education** 3 cr.
History and philosophies of physical education. Career opportunities. Foundations for TOPE program. For teacher education only. Fall.
- PHEC 109 Aerobic Fitness** 2 cr.
Leadership and technical skills for safe and effective group exercise programs. Every semester.
- PHEC 115 Methods of Group Exercise Instruction** 3 cr.
Leadership and technical skills for safe and effective group exercise programs. Every semester.
- PHEC 124 Basketball** 1 cr.
Fundamental skills of basketball. Every semester.
- PHEC 126 Soccer** 1 cr.
Fundamental skills of soccer. Spring.
- PHEC 129 Tennis** 1 cr.
Fundamental skills of tennis. Spring, odd-numbered years.
- PHEC 164 Teaching of Physical Education Through Outdoor Adventure Education** 1 cr.
Fundamental skills of rock climbing, canoeing, backpacking, cycling, and inline skating. Every semester. *Prerequisite: PHEC 103 or PHEC 170.*
- PHEC 165 Teaching of Physical Education Through Cooperative Team Challenges** 1 cr.
Fundamental skills of cooperative and initiative activities. Every semester. *Prerequisite: PHEC 103 or PHEC 170.*
- PHEC 166 Teaching of Physical Education Through Game and Activity Skills** 1 cr.
Fundamental skills of game and activity, team play, and strategy. Every semester. *Prerequisite: PHEC 103 or PHEC 170.*
- PHEC 167 Teaching of Physical Education Through Educational Gymnastics** 1 cr.
Fundamental skills of educational gymnastics. Every semester. *Prerequisite: PHEC 103 or PHEC 170.*
- PHEC 168 Teaching of Physical Education Through Dance Forms** 1 cr.
Fundamental skills of dance. Every semester. *Prerequisite: PHEC 103 or PHEC 170.*
- PHEC 169 Teaching of Physical Education Through Health Fitness** 1 cr.
Fundamental skills of health fitness. Every semester. *Prerequisite: PHEC 103 or PHEC 170.*
- PHEC 170 Physical Education Teaching Lab** 1 cr.
Methodologies of Muska Mosston, George Graham, John Rink, et. al. (The Teaching of Games for Understanding), and Problem Solving/Creative Thinking Initiative Activities will be the focus of this teaching lab. *Transfer students only or permission of instructor.* Fall.
- PHEC 175 Foundations of Resistance Training** 1 cr.
An introduction to resistance training program design. Emphasis will be on proper exercise technique and functional progressions for a variety of body areas. Every semester.
- PHEC 230 Golf** 1 cr.
Fundamental skills of golf. Spring, odd-numbered years.
- PHEC 250 Beginning Swimming** 1 cr.
Basic swimming skills and water safety. Open to beginning swimmers only. Fall.
- PHEC 251 Intermediate Swimming** 1 cr.
Swimming strokes and aquatic skills required for qualification as a good swimmer. Spring.
- PHEC 301 Applied Biomechanics** 3 cr.
Mechanics of human motion-muscles and joints. Emphasis on the teaching of various physical principles through the study of human motion. Biomechanical relationship in the upper and lower extremities, and the vertebral column. May not be taken by students who have credit for PHEC 303. Spring. *Prerequisite: BIOL 211.*
- PHEC 303 Biomechanics for Exercise Science** 3 cr.
Mechanics of human motion - muscles and joints. Application of mechanical principles to the study of human movement in exercise and daily life. Biomechanical relationships in the upper and lower extremities, and the vertebral column. May not be taken by students who have credit for PHEC 301. Fall. *Prerequisite: BIOL 202.*
- PHEC 309 Health and Physical Education for the Elementary Classroom Teacher** 3 cr.
Developmentally appropriate content, skills, and activities in health and physical education. Primary emphasis on regular classroom teacher role. For early childhood and elementary education majors. Students required to earn CPR certification outside regular class hours. Every semester, summer. *Prerequisite: EDUC 100.*
- PHEC 310 Organization & Administration of Health and Physical Education** 3 cr.
Non-instructional aspects of the health and physical education program. Classroom management and discipline, budgets and equipment inventory, legal considerations, program advocacy and the role of physical education in society. Spring. Teacher education only.

PHEC 341 Psychology of Physical Activity 3 cr.
Concepts related to psychology and physical activity. Theory-to-practice approach on how social psychological variables influence motor behavior and how physical activity affects the psychological make up of the individual. Spring. Prerequisite: Psychology 150.

PHEC 350 Red Cross Lifeguarding 1 cr.
Red Cross lifeguarding techniques. Three periods per week. Every semester. Prerequisite: ability to swim a quarter mile.

PHEC 351 Water Safety Instruction 2 cr.
Course is designed to certify instructor candidates to teach water safety and swimming courses. Three periods per week. Every semester. Prerequisite: Life Saving certificate.

PHEC 360 Theory of Track and Field 3 cr.
Concepts, advanced strategies, and organization and administration of a track and field program. Fall, odd-numbered years.

PHEC 361 Theory of Football 3 cr.
Concepts, advanced strategies, and organization and administration of a football program. Spring, odd-numbered years.

PHEC 362 Theory of Baseball 3 cr.
Concepts, advanced strategies, and organization and administration of a baseball program. Fall, odd-numbered years.

PHEC 364 Theory of Basketball 3 cr.
Concepts, advanced strategies, and organization and administration of a basketball program. Fall, even-numbered years.

PHEC 365 Theory of Volleyball 3 cr.
Concepts, advanced strategies, and organization and administration of a volleyball program. Spring, even-numbered years.

PHEC 366 Theory of Soccer 3 cr.
Concepts, advanced strategies, and organization and administration of a soccer program. Spring, even-numbered years.

PHEC 369 Theory of Softball 3 cr.
Concepts, advanced strategy, and organization and administration of a softball program. Fall, even-numbered years.

PHEC 401 Physiology of Exercise 3 cr.
Exercise and the circulatory, respiratory, and nervous systems; efficiency of muscular work; fatigue; age, sex, and body type. May not be taken by students who have credit for PHEC 406. Spring. Prerequisite: BIOL 202.

PHEC 402 Adapted Physical Activities 4 cr.
Adapting physical activities to individual disabilities. Three hrs. lecture, 3 hrs. lab.

PHEC 405 Psycho-Social Foundations of Sport 3 cr.
Study of human behavior during participation in sport; role of sport in society; psychological characteristics of sport performers; people and organizations who control sport. Variable.

PHEC 406 Applied Physiology 3 cr.
Understanding how the cardio-respiratory, digestive, and muscle/neural systems function in the human body; how to teach physiological principles of training; how to promote a physically active lifestyle. May not be taken by students who have credit for PHEC 401. Fall. Prerequisite: BIOL 211.

PHEC 407 Motor Learning and Performance 3 cr.
Motor skill acquisition concepts. Nature of the learner, guidance, results, motivation, practice, transfer, retention, and psychological implications. Every semester.

PHEC 408 Movement Experiences for Children 3 cr.
Neuromuscular skills appropriate to grades K-6. Enhancing capacities for movement as a way to express oneself. One lecture and 2 labs per week. Every semester. Prerequisite: Admission to Phase II teacher education.

PHEC 410 Advanced Strength Training 3 cr.
The study of the principles and practices of advanced strength training. Emphasis on the practical application of this knowledge to both athletic

performance and a health/wellness setting. Spring. Prerequisites: PHEC 175 and PHEC 303.

PHEC 411 Evaluation and Prescription in Fitness 3 cr.
In-depth examination of evaluation of and components applicable to the development of exercise programs. Every semester. Prerequisite: PHEC 401.

PHEC 412 Principles of Coaching 3 cr.
Introduces students to learning about coaching education and the responsibilities of the coach. Spring, odd-numbered years.

PHEC 413 Rehabilitation Techniques in Sport Medicine 3 cr.
Various aspects of the rehabilitation process for the physically active or athletic population. Goals, techniques, evaluation methods and specific rehabilitation programs covered. Fall. Prerequisite: HEED 319.

PHEC 415 The Black Athlete in American Society 3 cr.
A study of African-American involvement in sport from slavery to the present, investigating the people, events and conditions which affected sport in both the black society and the American society at large. Variable.

PHEC 416 Curriculum Design in Physical Education 3 cr.
Physical education curriculum design, selection, and development. Instructional planning based on developmentally appropriate activities, learning styles, safety issues, diversity considerations and societal implications. Teacher education. Spring.

PHEC 418 Physical Education in the Secondary Schools 3 cr.
Materials and methods of instruction in physical education at the secondary level. Teaching experience at local high school. Required in BLOCK semester prior to PHEC 497 in Teacher Education. Every semester. Prerequisite: Admission to Phase II teacher education.

PHEC 420 Sport Law and Ethics 3 cr.
Legal implications of tort and liability law for coaches; case studies in sport ethics, fair play, and morality in sport; athletic eligibility and gender equity. Variable.

PHEC 435 Lifespan Health and Fitness 3 cr.
An examination of factors that influence health and fitness across the lifespan including methods, services and resources to access and optimize the health and fitness of individuals and cohorts. Every semester.

PHEC 450 Aquatics and Pool Management 3 cr.
Advanced course in teaching, supervising all levels of swimming and diving instruction, and training competitive swimmers. Administration of swimming pools; staff, program, budget, facilities, safety, pool sanitation. Spring.

PHEC 480 Field Experience in Athletic Training 1 to 6 cr.
Field experience in athletic training. Sites of study may vary. Offered as needed. Repeatable up to a maximum of six credits.

PHEC 481 Field Experience in Coaching 1 to 6 cr.
Field experience in coaching. Sites of study may vary. Offered as needed. Repeatable up to a maximum of six credits.

PHEC 482 Field Experience in Health Fitness 1 to 6 cr.
Field experience in health fitness. Sites of study may vary. Offered as needed. Repeatable up to a maximum of six credits.

PHEC 483 Field Experience in Health Promotion 1 to 6 cr.
Field experience in health promotion. Sites of study may vary. Offered as needed. Repeatable up to a maximum of six credits.

PHEC 490 Special Topics in Health & Physical Education 1 to 6 cr.
The special topics course allows for unique or distinctive study such as clinics, workshops or course work dealing with a current topic related to health & physical education. It is arranged on a needs basis. Repeatable for credit if topics are substantially different.

PHEC 492 Seminar in Health Fitness 3 cr.
A separately graded component of the Health Fitness Internship, required in conjunction with PHEC 495. This course will address worksite issues encountered during the internship experience. Every semester.

PHEC 495 Internship in Health Fitness**9 cr.**

Special work experiences related to the health fitness academic program. Full-time students must register for a minimum of 9 credit hours of internship. Graded P/F. *Prerequisite:* Completion of 90 credit hours or more with a C or better in the major and senior status. *Exercise and Sport Science Capstone.*

PHEC 498 Readings in Health & Physical Education**1 to 4 cr.**

Intensive reading on selected topic. Every semester. Repeatable for credit if topics are substantially different. *Prerequisite:* major or minor in HPE or Exercise and Sport Science and permission of instructor.

PHEC 499 Individual Problems in Health & Phys. Ed.**1 to 4 cr.**

Individual activity requiring submission of a final paper or completed project. Every semester. Repeatable for credit if topics are substantially different. *Prerequisites:* major or minor in HPE or Exercise and Sport Science and permission of instructor.

History

HIST 100 The Contemporary World in Historical Perspective**3 cr.**

A consideration of major historical developments of the last century in diverse areas of the world that illuminate contemporary problems. Every semester. *GEP Group B or F.*

HIST 103 History of the United States**3 cr.**

Survey of the political, social, economic, and diplomatic trends in United States history from 1492 until 1876. Every semester.

HIST 104 History of the United States**3 cr.**

Survey of the political, social, economic, and diplomatic trends in United States history from 1876 to the present. Every semester.

HIST 111 Honors: The Contemporary World in Historical Perspective**3 cr.**

A consideration of major historical developments of the last century in diverse areas of the world that illuminate contemporary problems. Both reading and writing assignments are more challenging than those in HIST 100. Credit cannot be earned for both HIST 100 and HIST 111. Spring. *Prerequisite:* enrollment in the Honors Program or permission of the instructor. *GEP Group B or F.*

HIST 113 World History**3 cr.**

Survey of Western and Non-Western Civilizations and cultures from the earliest times to 1500. Fall.

HIST 114 World History**3 cr.**

Survey of Western and non-Western Civilizations and cultures from 1500 to 1900. Spring.

HIST 290 Special Topics in History**3 cr.**

A study of an historical topic, problem, or period allowing for more specific focus and greater depth than is possible at the 100-level. Variable.

HIST 299 Writing and Research in History**3 cr.**

The study and practice of the techniques of historical research and writing. Completion of this course with a C or better is required for *final* admission to the History major. Every semester. *Prerequisite:* completion of at least one of HIST 103/104/113/114 and at least one 300-400 level history course.

HIST 301 Traditional Africa**3 cr.**

The African pre-colonial states: their governments, economic systems, cultural patterns, achievements, and relations with other African and non-African peoples. Also offered as AAST 300. Not open to students who have credit for former HIST 452. Spring.

HIST 303 History of Latin America**3 cr.**

Earlier Latin American history: Aztecs, Incas, and Mayas, the Age of Conquest, the colonial period and the struggle for independence. Variable.

HIST 304 History of Latin America**3 cr.**

Later Latin American history: the development of the Latin American nations from independence until the present. Variable.

HIST 306 Medieval Europe**3 cr.**

A topical survey of European history and Europe's interactions with its neighbors from the 5th century to about 1300. The environmental, economic,

social, political, and cultural factors that made for a distinctive civilization in Europe and provided the foundations for future developments in European history. Variable.

HIST 307 Renaissance and Reformation Europe**3 cr.**

The political, social, economic, and cultural transformation of Europe from medieval (1300) to early modern (1600). Emphasis on cultural innovation (Renaissance) and religious diversity and conflict (Reformation). Variable.

HIST 308 Europe, 1600-1815**3 cr.**

European history from 1600 through Napoleon. The political, social, economic, and cultural development of Europe from a traditional society to the beginnings of the modern period. Variable.

HIST 309 World Environmental History**3 cr.**

Historical study of environmental dimensions of change in human history. Historical case examples covering most world regions, and periods such as prehistory, the ancient world, agrarian societies, and the recent industrial world. Variable.

HIST 310 Ancient Greece and Rome**3 cr.**

Bronze Age, Archaic, and Classic civilizations of Greece; Alexander and Hellenistic era; early Italy and the Etruscans; Roman republic and empire; fall of Rome. A balance of political, cultural, socio-economic aspects, and interactions with neighboring peoples. Variable.

HIST 318 Native Peoples of the Americas**3 cr.**

Survey of the history of Native American peoples in the Western Hemisphere from pre-Columbian times to the present. The impact of Europeans on native societies and cultures and the natives' relationships with the emerging nation-state. Variable. *GEP Group F.*

HIST 319 A History of Terrorism**3 cr.**

The study of terrorism, or conspiratorial political violence that targets the few to gain the attention of the many, in historical context. A consideration of political, economic, social and cultural factors in the evolution of terrorism as a global phenomenon. Variable.

HIST 341 The Modern and Contemporary Middle East**3 cr.**

The religious and secular history of the Middle East from the late 19th century to the present era. National and international aspects of the region before, during, and after the Western imperial thrust into the area. Variable.

HIST 345 History of Maryland**3 cr.**

Survey of Maryland history from its founding until the present. Variable.

HIST 380 The American West**3 cr.**

The West from the Mississippi River to the Pacific, including Alaska, emphasizing the 19th century. Spanish exploration; the fur empire; Indian assimilation and extinction; the cowboy's frontier; mining frontier; women in the West; the myth of lawlessness; the West in art, literature, and song; the 20th century West. Variable.

HIST 390 Special Topics in International History**3 cr.**

A detailed study of a limited topic, problem, or period in European/African/Asian history. Topics vary from semester to semester. Variable.

HIST 403 Imperial Russia**3 cr.**

The political, economic, social and cultural history of the Russian empire, from its roots in the ninth-century Kievan state to its fullest expansion under the last Romanov tsar, Nicholas II. Variable.

HIST 404 Revolutionary and Soviet Russia**3 cr.**

Russia since the revolution of 1905: political developments, both domestic and foreign; economic system, organization; social and cultural evolution. Variable.

HIST 433 Public History**3 cr.**

An introduction to the ideas and methods of public history, emphasizing practical application of research, writing and critical thinking skills in the public sector. Variable.

HIST 436 Women's Issues in World History**3 cr.**

The historical study of the major issues affecting women's lives in the modern age (18th-21st centuries) and across multiple cultures. Variable. *GEP Group F.*

HIST 450 The History of Mexico**3 cr.**

The development of Mexican society from the pre-Columbian period to the present. The Aztec and Mayan civilizations, the implanting of Spanish control, the origins of the Mexican Revolution and its long-range impact. Variable.

HIST 453 Contemporary Africa**3 cr.**

The 20th-century emergence of representative African nations; the achievements of these nations; their current political, economic, and social problems. Variable.

HIST 455 Latin American Revolutions**3 cr.**

Twentieth-century revolutions in Latin America. Theories of revolution, the causes, leaders and followers, post-revolutionary developments and the international consequences of Latin American revolutions. Variable.

HIST 457 India**3 cr.**

The philosophical, political, economic, and diplomatic evolution of India from antiquity until the present. Variable.

HIST 458 History of China and Korea**3 cr.**

Social, political, economic, and diplomatic aspects from the prehistoric and early dynastic era to the current age. Variable.

HIST 459 History of Japan**3 cr.**

Social, political, economic, and diplomatic aspects from the prehistoric and early dynastic era to the current age. Variable.

HIST 460 Modern and Contemporary Asia**3 cr.**

The rising spirit of nationalism, colonial resistance movement, reactions of the imperial powers, and the emergence of new nations against the background of the old cultures. The economic, political, social, and diplomatic implications of the change. Variable.

HIST 461 Colonial America, 1607-1763**3 cr.**

From the settlement of Jamestown through the French and Indian War. European backgrounds, religious developments, regional differences, Indian relations, and cultural life. Variable.

HIST 462 Revolutionary America 1763-1789**3 cr.**

From the conclusion of the French and Indian War to the formation of the United States Constitution: British-American imperial relations; cultural developments in the 18th century; origins, impact, and general nature of the American Revolution; and the formation of the Federal Union. Variable.

HIST 463 The Age of Jefferson and Jackson, 1789-1848**3 cr.**

From Washington's presidency through the administration of James K. Polk. The philosophies of Hamilton and Jefferson, the origins of political parties, politics of the Jackson era, Indian removal, the development of transportation, the frontier, slavery, abolitionism, and emerging sectionalism. Variable.

HIST 464 The Civil War and Reconstruction, 1849-1877**3 cr.**

From the end of the Mexican War through the period of Southern Reconstruction: growth and sectionalism, and the social, political, military, and economic impact of the War Between the States. Variable.

HIST 465 Gilded Age America, 1877-1913**3 cr.**

From the presidency of Hayes through the Progressive Era: the labor movement, growth of the city, immigration, imperialism, art and architecture, and politics. Variable.

HIST 466 The United States in the 20th Century, 1914-1945**3 cr.**

The home front during World War I, postwar reaction, the 1920s, the Stock Market Crash, the Great Depression, the New Deal, and American society during World War II. Variable.

HIST 467 The U.S. in the 20th Century, 1945-Present**3 cr.**

The Truman, Eisenhower, and Kennedy Years; the Cold War and McCarthyism; the 1960s; Black and student movements; Johnson and Vietnam; Nixon and Watergate; and more recent presidencies. Variable.

HIST 470 America and the Vietnam War**3 cr.**

An interdisciplinary study of the origins, development and consequences of the United States involvement in Vietnam from 1950-1975, with emphasis on political and social history. Variable.

HIST 475 Genocide and Mass Violence**3 cr.**

Genocides of the modern era from that of the Herero of German Southwest Africa (early 20th century) to that of Darfur in the Sudan (early 21st century). Variable.

HIST 476 Modern Europe**3 cr.**

European history in the modern period, from the Napoleonic era (1799-1815) to present day, with particular attention to geographic, historical, political and economic distinctions between western and eastern Europe. Variable.

HIST 484 Practicum in History**3 cr.**

Practical experience in public history through placement with an organization or agency for the purpose of completing a specific project. May be repeated once for credit in a different placement. Variable.

HIST 485 Seminar in History**3 cr.**

Topics in history presented by students, faculty, and invited guests. Individual research (senior thesis) with interim reports and formal presentation of paper. Discussion leadership expected. Spring. *Prerequisite: completion of HIST 299 with a C or better and senior standing. Capstone.*

HIST 490 Special Topics in History of the Americas**3 cr.**

A detailed study of a limited topic, problem, or period of North or South American history. Topics vary from semester to semester. Variable.

HIST 492 Internship Seminar**3 cr.**

Academic component of internship. Requires co-registration in 495. Graded A-F. Normally Summer. *Prerequisites: junior or senior status, in good academic standing, submission of Internship Agreement form to internship director prior to registering.*

HIST 495 Internship in History**6-12 cr.**

Experiential component of internship: guided work experience in conjunction with 492; must directly relate to academic program. Full-time interns register for 12 credits in 495 and 3 credits in 492 and may not enroll in other courses. Part-time interns register for 6 credits in 495 and 3 credits in 492. Graded P/F. Normally Summer. *Prerequisites: junior or senior status, in good academic standing, submission of Internship Agreement form to internship director prior to registering.*

HIST 498 Readings in History**3 cr.**

Directed readings in some specialized area or topic of history. The topic must relate to an upper level history course previously taken in that area. Normally limited to seniors majoring in history with at least a 3.0 GPA in all history courses. *Permission of advisor, instructor, and chair of the department must be secured during the preceding semester.* In exceptional circumstances, may be repeated once for credit. Intersession and Summer.

HIST 499 Individual Research in History**3 cr.**

The preparation of a research paper under the direction of the History Department. The topic must relate to an upper level history course previously taken in that area. Normally limited to seniors majoring in history with at least a 3.0 GPA in all history courses. *Permission of advisor, instructor and chair of department must be secured during the preceding semester.* In exceptional circumstances, may be repeated once for credit. Intersession and Summer.

Humanities

HUMA 309 Zen Practice**1-2 cr.**

A "lab" experience supplementing in-class theoretical learning with practical and direct experience of zazen meditation under instructor guidance (1 cr.). Optional second credit earned through workshop attendance at the Rochester Zen Center. Variable. *Requires concurrent enrollment in ENGL 309.*

HUMA 444 Metaphysics and Modern Physics**3 cr.**

Interdisciplinary study of 20th-century physics and ancient Asian metaphysics. Concepts of reality proposed by Newton, Einstein, Heisenberg, and other physicists; and by Lao-Tzu, Buddha, Hui Neng, and other ancient philosophers. Also offered as PHSC 444. Spring.

Interdisciplinary Studies

IDIS 150 First-Year FSU Colloquium

3 cr.

Fostering a Sense of Understanding through exploration of a current issue, theme, problem, person or persons, cultural or historical period, world area or national region, or other unifying principle through interdisciplinary study, discussion, and activities. Every semester. *To be completed within first 45 hours.* GEP Group E.

IDIS 160 Science, Technology and Society

3 cr.

Interdisciplinary examination of models of research, development of science and technology, and application and subsequent impact of developments on society and the environment. Every semester. GEP Group C.

IDIS 191 Freshman Project

3 cr.

Continuation of fall semester learning communities for freshman students. Real-world or laboratory application of theoretical constructs and interdisciplinary perspectives acquired by students enrolled in learning communities the previous Fall. Student projects will culminate in a product (e.g. video presentation, display, artistic work, etc.) presented to the university community at the end of the semester. Spring. *Prerequisites: freshman standing, learning community member during the previous fall semester, and permission of instructors.*

IDIS 350 Advanced FSU Colloquium

3 cr.

Fostering a Sense of Understanding through exploration of a current issue, theme, problem, person or persons, cultural or historical period, world area or national region, or other unifying principle through interdisciplinary inquiry and research. Every semester. *To be completed after earning 45 hours.* GEP Group E.

Honors Program

IDIS 151 Honors: First-Year Colloquium

3 cr.

Fostering a Sense of Understanding through exploration of a current issue or other unifying principle through interdisciplinary study, discussion, and activities. Activities emphasize student discussions of assigned readings, oral, and written reports more challenging than those in other first-year colloquium classes. Readings emphasize primary rather than secondary sources. Assignments emphasize active learning experiences. Every semester. Topics vary. You cannot receive credit for both IDIS 151 and IDIS 150. *Prerequisites: Participation in the Honors Program and to be completed within first 45 hours.* GEP Group E.

IDIS 351 Honors: Advanced FSU Colloquium

3 cr.

Fostering a Sense of Understanding through exploration of a current issue, theme, problem, person, or persons, cultural or historical period, world area or national region, or other unifying principle through interdisciplinary inquiry and research. Every semester. To be completed after earning 45 hours. Activities emphasize student discussions of assigned readings, oral, and written reports. Topics vary. May be repeated. You cannot receive credit for both IDIS 351 and IDIS 350. *Prerequisites: Participation in the Honors Program and junior or senior standing or permission of the instructor(s).* GEP Group E.

IDIS 491 Honors Seminar

3-6 cr.

An interdisciplinary study of a particular topic. Activities emphasize student discussions of assigned readings, oral, and written reports. Topics vary. May be repeated. *Prerequisites: Participation in the Honors Program and Junior or Senior standing or permission of the instructor(s).*

IDIS 493 Honors Thesis

3 cr.

Individual research or other individualized learning experience on a specific topic initiated by the student. Course requirements include submission of a final paper or completed project. Pre-registration includes submission of a proposal prior to the end of the preceding semester. Proposal must be approved by the faculty member sponsoring the thesis and the Honors Program Advisory Group. See Honors Program Handbook for additional information. May be repeated for credit if topics are substantially different. *Prerequisites: Participation in the Honors Program, Junior or Senior standing, and proposal approval.*

International Studies

INST 100 Introduction to International Studies

3 cr.

An introductory study of the diverse areas of the world with a focus on contemporary issues and conflicts. Fall. GEP Group F.

INST 150 Introduction to World Religions

3 cr.

A comparative introduction to spiritual traditions and world religions, as they exist today but with emphasis on their particular historical paths of origin and development. Both natural and social sciences are utilized as well as the various disciplines of the humanities. Spring, even-numbered years. GEP Group F.

INST 491 Seminar in International Studies

3 cr.

In-depth examination of topics in international studies through presentations, discussions and the preparation of a seminar paper. Spring. *Prerequisites: completion of International Studies core courses and six hours in an area of focus, or permission of the instructor.* Capstone.

INST 492 Internship Seminar

3-6 cr.

Academic component of internship. Requires co-registration in INST 495. Full-time interns register for 6 credits of INST 492 and 9 credits of INST 495, part-time interns register for 3 credits of INST 492 and 6 credits of INST 495. Graded A-F. Summer.

INST 495 Internship in International Studies

6-9 cr.

Experiential component of internship in conjunction with INST 492. Guided work experience must directly relate to student's academic program. Full-time interns register for 9 credits in 495 and 6 credits in 492 and may not enroll in other courses. Part-time interns must register for 6 credits in 495 and 3 credits in 492. Graded P/F. Summer. *Prerequisites: junior or senior standing, not on probation, Coordinator's approval of internship before registering.*

Leadership Studies

LEAD 201 Leadership Studies: Theory and Practice

3 cr.

Introduction to the study of leadership from both theoretical and practical perspectives. Fall.

LEAD 250 The Citizen Leader

3 cr.

Exploration of the opportunities for and obstacles to becoming engaged in civic life and social change. Discussion of responsibilities to self and others and the multiple benefits that can be derived from being a proactive participant in community affairs. Includes didactic and experiential components. Spring. *Prerequisite: LEAD 201 or permission of instructor.*

LEAD 494 Practicum in Leadership Studies

4 cr.

Experiential practicum in leadership studies. Students devote 115 hours to experiential component and assume a leadership task for an organization or group. Students meet in a seminar, 1 hr. per week, to integrate previous course material and reflect on their practicum experiences. Variable. *Prerequisites: CMST 102, LEAD 150, LEAD 201, and 6 credits from approved list.*

LEAD 499 Independent Study

1-3 cr.

Individualized learning experience on a specific leadership topic, culminating in a written paper. Prior to the semester of the project, the student must submit a preliminary proposal to the Coordinator of the Leadership Studies Minor who will assign a mutually agreeable instructor to supervise the student's project. Variable. Repeatable up to 3 credits total. *Prerequisite: declared Leadership Studies minor.*

Liberal Studies

LBST 450 Senior Self Assessment

0 cr.

Completion of a narrative self-statement explaining the choice of a senior capstone course, justifying the inherent integrity of the focus area, and articulating post-baccalaureate goals, accompanied by a self-evaluation of the learning goals and attainment of learning for each course included in the focus. P/F grade. Every semester. Repeatable until passed. *Prerequisite: Senior standing. Capstone.*

LBST 494 Field Experience in Liberal Studies

3-6 cr.

Completion of a work experience as part of focus in Liberal Studies. Work experience must relate directly to academic program. P/F. Prerequisites: Junior or senior standing. By twelfth week of the semester prior to experience, students must submit an application including (1) proposal, (2) letter of acceptance from proposed agency indicating direct supervisor and total number of hours to be worked, (3) agreement to keep a written record of hours worked and reflective journal of each day worked.

LBST 499 Directed Study

3 cr.

Capstone opportunity for Liberal Studies majors: seminar, readings course or independent study. Paper required. P/F. Every semester. *Permission of LBST coordinator required.*

Management

You cannot receive credit for a both a MGMT course and the same course formerly labeled BUAD.

MGMT 315 New Business Ventures

3 cr.

Examines the problems and challenges of creating and managing a small business. Emphasis on the development and implementation of a business idea, and the practical aspects of starting and managing a small business and its functional components: accounting, finance, management and marketing. Every semester.

MGMT 351 Management of Organizations

3 cr.

The practice of managing in today's dynamic environment; the purpose and processes of organizations; managing individuals and groups in organizations. Emphasis is placed on skills needed for managerial success. Every semester. *Prerequisite: 36 credits.*

MGMT 355 Operations Management

3 cr.

Introduction to the operations function of a business. Relation between value and efficient operations, forecasting, capacity planning, management of supply chain and materials, quality issues, and project management. Every semester. *Prerequisites: MATH 209/219/380, MGMT 351.*

MGMT 356 Leadership and Human Behavior

3 cr.

Introduction to leadership theories and concepts; emphasis on applications of leadership qualities and human skills required for managerial success and organizational effectiveness. Every semester. *Prerequisite: 42 credits.*

MGMT 357 Human Resources Management

3 cr.

Effective utilization of human resources in organizations: Emphasis on principles, practices and legal aspects of job analysis, recruitment and selection, training, performance appraisal, compensation, safety and health, employer-employee rights, union-management relations; current issues in the field. Every semester. *Prerequisite: MGMT 351.*

MGMT 359 Quality Management

3 cr.

The Quality Management concept; relationship between quality and competitiveness; developing a quality culture through establishing a customer focus, employee involvement and empowerment, team building, education and training; quality tools; implementing quality management. Every semester. *Prerequisite: MGMT 351, MATH 209/219/380.*

MGMT 405 Business Ethics and Social Responsibility

3 cr.

Business ethics; the relationship of business with society; stakeholder relationships and the social responsibility of business to various constituencies; social, ethical and public policy issues affecting business and the managerial approaches for dealing with these issues. Not open to students who have credit for former BUAD 380 or 480. Every semester.

MGMT 425 Entrepreneurial Business Plan

3 cr.

Opportunity assessment and feasibility analysis, as well as implementation, deal structure and operations for entrepreneurially-minded FSU students. Each topic is approached from a pragmatic perspective. Class discussions and assignments are based upon live experiences. The lecture, the readings, and the speakers all reflect that purpose. Spring. *Prerequisite: MGMT 315.*

MGMT 450 International Management

3 cr.

Study of international and comparative management theories, concepts and practices; managing in a global environment, cross-cultural management practices, managing human resources in international corporations, unique challenges in managing multinational organizations, and contemporary issues facing global managers. Spring. *Prerequisite: BUAD 330.*

MGMT 452 Staffing and Development

3 cr.

The role of human resource professionals at every stage of the employment process from pre-hiring to post-firing, staffing policies, internal and external recruitment, HR development strategies and training program development, career management, outplacement programs. Fall. *Prerequisite: MGMT 357.*

MGMT 456 Compensation Management

3 cr.

The principles of compensation management, job analysis and evaluation, establishment and administration of pay systems, employee benefits, executive compensation. Fall. *Prerequisite: MGMT 357.*

MGMT 457 Labor Relations

3 cr.

The role of management and unions in our society, labor-management problems and their resolution, the collective bargaining process, the legal framework of labor-management relations, administration of the labor contract. Spring. *Prerequisite: MGMT 357 or major in Law and Society.*

MGMT 485 Business Policy and Strategy

3 cr.

Strategy and policy formulation and implementation; effects on various levels of management. Integrating the functions of the enterprise within the social, political, legal and economic environment. A case-study approach requiring both written and oral presentations of case problems. Every semester. *Prerequisites: 90 credits and 18 hrs. of business administration, including MGMT 351, MKTG 361, and FINA 370 or FINA 476. Accounting, General Management, Human Resource Management, Integrated Business, Small Business/Entrepreneurship Capstone.*

MGMT 490 Special Topics in Business Administration - Management

3 cr.

A detailed study of a limited topic, problem, or period. Topics vary from semester to semester. Fall. *Prerequisites: 90 credits and 18 hrs. of business administration course work.*

MGMT 494 Internship in Management

3 or 6 cr.

Guided work experience in management for business, nonprofit or government organizations. Minimum of 135 clock hours of experience for 3 credits (270 hours for 6 credits). Academic components include, but not limited to, one internship paper, internship log and site supervisor's evaluation of the student's performance. Previous experience not acceptable for credit. Repeatable up to 6 credits. Every semester and summer. *Prerequisites: Junior or senior standing; department chair's approval.*

MGMT 499 Independent Study in Management

1 - 3 cr.

Research and report on a specific topic not covered by regularly rostered courses. Topic will be defined by the student in conjunction with faculty sponsor. Proposals must be approved prior to registration. Course may be repeated for a maximum of 4 credits. Every semester. *Prerequisites: 18 credits of business administration course work, 90 credits and permission of department chair.*

Marketing

You cannot receive credit for a both a MKTG course and the same course formerly labeled BUAD.

MKTG 361 Principles of Marketing 3 cr.

Introduction to marketing and the fundamentals involved in the marketing process. Functions, institutions, and channels of distribution of goods and services from producer to consumer; the components of marketing strategy and their interrelationships. Every semester. *Prerequisite: 29 credits.*

MKTG 363 Advertising 3 cr.

Overview of advertising and sales promotion; their relation to social and economic systems. Processes for developing and implementing effective advertising programs, including promotional planning, media selection, and layout. Every semester. *Prerequisite: a grade of C or better in MKTG 361.*

MKTG 364 Merchandising 3 cr.

Vital role of merchandise planning and process management, product placement, layout, customer service, and pricing. Special emphasis on forecasting, planning, evaluating, and presenting merchandise lines to meet target market demands in a retail environment. Fall of odd-numbered years. *Prerequisite: C or better in MKTG 361.*

MKTG 365 Principles of Selling 3 cr.

Introduces students to the fundamentals of selling which include the selling process from preapproach to post-sale service. Fall. *Prerequisite: a grade of C or better in MKTG 361.*

MKTG 366 Consumer Behavior 3 cr.

Concepts and theories of consumer behavior; psychological and sociological influences on consumers. The relation of these theories to marketing strategies; consumer behavior in the segmentation of markets. Every semester. *Prerequisite: a grade of C or better in MKTG 361.*

MKTG 460 International Marketing 3 cr.

Study of the marketing function from an international perspective. Discussion of the cultural, legal, political and economic aspects of international marketing, in addition to international marketing policies and strategies. Comparison of markets and marketing techniques in the U.S. and foreign markets. Problems and techniques of export marketing are highlighted. Spring. *Prerequisite: a grade of C or better in MKTG 361.*

MKTG 462 Marketing Research 3 cr.

The role of marketing research in the formulation and solution of marketing problems and the development of the student's basic skills in conducting and evaluating marketing research products. Special emphasis on problem formulation, research design, alternative methods of data collection (including data collection instruments, sampling and field operations) and data analysis techniques. Every semester. *Prerequisite: a grade of C or better in MKTG 361 and MATH 209/219/380.*

MKTG 465 Marketing Strategies 3 cr.

Market analysis, product planning, channels of distribution, pricing and promotional decision making; analysis of environmental constraints and market opportunities. Every semester. *Prerequisites: a grade of C or better in MKTG 361 and MKTG 366.*

MKTG 466 Services Marketing 3 cr.

Discussion of marketing theory and methods in the management of services. Elements of the service marketing mix are emphasized. Fall. *Prerequisite: a grade of C or better in MKTG 361.*

MKTG 467 Internet Marketing 3 cr.

Use of the Internet for business, primarily from a marketing perspective. Examination of Internet structure, function and terminology; investigation of marketing strategies and business practices necessary for success in e-commerce; and study of the phenomena, issues and processes that make conducting business on the Internet unique. Spring. *Prerequisite: a grade of C or better in MKTG 361.*

MKTG 469 Marketing Plans Development 3 cr.

Development of complete and formal marketing plans for existing or new consumer products. Structure encompasses all aspects of a contemporary marketing plan from situational analysis through implementation and control.

Every semester. *Prerequisites: MKTG 366, 462, 465. Marketing Capstone.*

MKTG 490 Special Topics in Business Administration - Marketing 3 cr.

A detailed study of a limited topic, problem, or period. Topics vary from semester to semester. Fall. *Prerequisites: 90 credits and 18 hrs. of business administration course work.*

MKTG 494 Internship in Marketing 3 or 6 cr.

Guided work experience in marketing for commercial, nonprofit or government organizations. Minimum of 135 clock hours of experience for 3 credits. Minimum of 270 clock hours of experience for 6 credits. Academic component consists of two research papers on experience-related topics and a detailed report on the field experience. Previous experience not acceptable for credit. Repeatable up to 6 credits. Every semester and summer. *Prerequisites: Junior or senior standing; departmental approval.*

MKTG 499 Independent Study in Marketing 1 - 3 cr.

Research and report on a specific topic not covered by regularly rostered courses. Topic will be defined by the student in conjunction with faculty sponsor. Proposals must be approved prior to registration. Course may be repeated for a maximum of 4 credits. Every semester. *Prerequisites: 18 credits of business administration course work, 90 credits and permission of department chair.*

Mass Communication

You may not receive credit for both an MCOM course and the same course formerly labelled CMAT.

MCOM 100 Communication Practicum (Radio) 1 cr.

Entry-level work experience in applying mass communication theories at radio station WFWM. Repeatable to 4 credits; may not be applied to fulfillment of major requirements. *Prerequisite: permission of instructor.*

MCOM 101 Communication Practicum (Television) 1 cr.

Hands-on television experience. Serve as technical personnel for student-produced newscast. Repeatable to 4 credits; may not be applied to fulfillment of major requirements. Variable.

MCOM 105 Introduction to Mass Communication 3 cr.

Historical evolution of today's media industries and career paths. Emphasis on contemporary issues affecting those industries and careers. Consideration given to emerging media, required skills, including professional expectations, standards, ethical considerations, and social impacts. Every semester.

MCOM 150 Introduction to Radio 3 cr.

Study of radio in the United States, both AM and FM, with presentations on the basic electronics, operation, regulation, staffing and selling. Variable.

MCOM 212 Video Production Industry 3 cr.

Survey of professional uses of video production including television, corporate video, web-based video, and educational video. Introduction to the production process, shooting techniques, digital editing techniques, and internet streaming. Two hrs. lecture, 2 hrs. lab. Every semester.

MCOM 213 Audio Production 3 cr.

Examines the theories and technology used in audio production for music, radio, TV, and film. Provides students with a useful vocabulary and the basic theory upon which production skills can be built. Two hrs. lecture, 2 hrs. lab. Every semester.

MCOM 246 Intro to Mass Communication Research Methods 3 cr.

Introduction to methods employed in both theoretical and applied research in Mass Communication. Basic assumptions, strengths, weaknesses in quantitative, qualitative, historical, critical cultural methods. Application of methods in theory development and industry decisions. Every semester. *Prerequisite: MCOM 105.*

MCOM 250 Announcing and Performance 3 cr.

Development of skills required of the individual performer in the preparing, announcing, and narrating of various types of materials for audio and video formats. Variable.

MCOM 301 Multi-Media Workshop 3 cr.
Techniques in creating multimedia content. Digital audio/video editing techniques and streaming media techniques and practices considered. Variable. *Prerequisite:* MCOM 212 and MCOM 213.

MCOM 311 Single Camera Production 3 cr.
Principles and practices of video field production. Focus on visual composition, lighting and sound, production, planning, and operation of portable video recording equipment. Emphasis on shooting and editing for broadcast, non-broadcast and multimedia applications. Two hrs. lecture, 2 hrs. lab. Fall. *Prerequisite:* MCOM 105 and MCOM 212.

MCOM 313 Advanced Audio Production 3 cr.
Development of advanced skills in multiple aspects of audio production. Recording and mastering various types of audio projects. Utilization of digital editing equipment and CD authoring techniques. Fall. *Prerequisite:* MCOM 213 or permission of instructor.

MCOM 316 Telecommunications Management 3 cr.
A study of problems of organization and management of radio and television stations with attention to problems of programming, sales, public relations, governmental agencies, and audiences. Also a consideration of regulatory, station, personnel, and affiliation restraints upon decision-making in management. Variable. *Prerequisite:* MCOM 105.

MCOM 326 Writing for Electronic Media 3 cr.
Fundamentals of media and multi-media writing; vocabulary, syntax, organizing ideas according to industry needs. Sound message versus print message; print versus electronic writing. Every semester. *Prerequisite:* MCOM 105.

MCOM 336 Broadcast-Cable Programming 3 cr.
Study of the general theoretical principles of scheduling and selecting programming for broadcasting, cable, and internet uses. An examination of general programming principles and practices, regulatory constraints upon programming, the nature and interpretation of ratings and their influence upon programming. Variable. *Prerequisite:* MCOM 105.

MCOM 346 Mass Communication Theory 3 cr.
Theories of the process of mass communication, how media affect society, the evolution within a social and cultural context, ethical and social dimensions. Extensive reading in theory, history, and research. Every semester. *Prerequisites:* MCOM 105 and MCOM 246.

MCOM 447 Telecommunications Law 3 cr.
Survey of both constitutional and administrative laws, regulations, and public policies which govern the United States' telecommunication systems. Every semester. *Prerequisites:* MCOM 105, MCOM 246, 60 hours, and good academic standing, or permission of instructor.

MCOM 456 Creative Strategies in Advertising & Media Buying 3 cr.
Investigation of how effective advertising campaigns are mounted by agencies. Creative strategies emphasized. A campaign for a new product is researched, designed, and presented by students. A basic understanding of media placement, rates and rate cards included. Variable. *Prerequisites:* MKTG 361 and MCOM 326 or permission of the instructor.

MCOM 465 Music Promotion and Production 3 cr.
Students will apply promotion and production skills to a real world situation by organizing, promoting and producing a full-length audio CD. Students will also organize and promote a live concert featuring artists from the CD. May be taken no more than 2 times for credit. Spring. *Prerequisite:* permission of instructor.

MCOM 485 Electronic Media Aesthetics & Criticism 3 cr.
Study of the aesthetic principles guiding development of electronic media products. Examination of approaches to analyzing and critiquing media products. Critical viewing and analysis of media texts. Emphasis on aural and visual media: radio, television and film. Every semester. *Prerequisites:* MCOM 105 and MCOM 326 or permission of instructor.

MCOM 486 Current Issues & New Technologies in Mass Comm. 3 cr.
Examines a variety of new and emerging telecommunications technologies. Considers the historical and ethical impacts of these technologies on the media; issues and economics driving the implementation of these technolo-

gies; and their adoption and use by consumers. Every semester. *Prerequisites:* MCOM 105, MCOM 246, and MCOM 346.

MCOM 487 Advanced Video Production 3 cr.
Combines studio and field production elements. Emphasis on advanced production, editing, and post-production techniques. Two hrs. lecture, 2 hrs. lab. Spring. *Prerequisites:* MCOM 212, MCOM 311, or permission of instructor.

MCOM 488 Multi-Camera Field Production 3 cr.
Techniques and skills necessary to utilize multi-cameras in a variety of field productions. Two hrs. lecture, 2 hrs. lab. Every semester. *Prerequisite:* MCOM 212, MCOM 311 or permission of instructor.

MCOM 490 Special Topics in Mass Communication 3 cr.
Research or applied experience on an announced selected topic. Variable. *Prerequisite:* permission of instructor.

MCOM 492 Internship Project 3 cr.
Academic component of internship experience, in conjunction with MCOM 495. Graded A through F. Every semester. *Corequisite:* MCOM 495. *Capstone.*

MCOM 494 Mass Communication Practicum 1 to 3 crs.
Supervised field experience for Mass Communication majors. Participation in the communication operations of a commercial, governmental, or educational organization. Repeatable but only 3 credits may be applied for the completion of one professional focus. Every semester. *Prerequisite:* Junior/senior standing, a minimum of 12 credits in Mass Communication courses, and permission of the instructor. *Capstone.*

MCOM 495 Internship in Mass Communication 6 or 12 crs.
Experiential component of internship: guided work experience directly related to student's academic program. Full-time interns register for 12 credits in 495, 3 credits in 492, and may not enroll in any other courses. Part-time interns must register for 6 credits in 495 and 3 credits in 492. Graded P/F. Every semester. *Prerequisites:* Junior/senior status, not on probation; declared major in mass communication, minimum 12 cr. in mass communication, and 2.5 GPA in major; Internship Agreement Form approved by department internship director before registering.

MCOM 499 Directed Study 1 to 6 crs.
Intensive study through faculty-directed projects or papers. Hours arranged. Every semester. Repeatable to 6 credits. No more than 6 hours can be counted toward one professional focus. *Prerequisite:* permission of Department Chair.

Mathematics

DVMT 095 Pre-Algebra Mathematics 3 cr.
Primary focus is to improve students' basic math skills. Concepts of arithmetic, geometry, units of measure, and elementary algebra. *Students may not withdraw unless withdrawing from the university.* Completion of this course will meet the prerequisites for MATH 104, MATH 209 or DVMT 100. Graded P/F. Every semester. Does not fulfill Core Skill 3, nor may the credits be used to fulfill the 120 hr. minimum toward graduation. **MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR MAJOR OR MINOR IN MATHEMATICS.** *Note: Students are placed in this course based upon results of Mathematics Placement Test administered by the University. Students who fail this course on their second attempt or thereafter will be academically dismissed.*

DVMT 100 Intermediate Algebra 3 cr.
Introduction to the fundamental aspects of algebra, including properties of the real number system; integer arithmetic; operations with positive and negative exponents; variables and linear equations; graphing; second degree equations; factoring; operations with positive, negative, and fractional exponents; and quadratic equations. Completion of this course will meet the prerequisites for MATH 102, 103, and 106. Graded P/F. Every semester. Does not fulfill Core Skill 3, nor may the credits be used to fulfill the 120-hr. minimum toward graduation. *Prerequisite:* A passing score on the Mathematics Placement Test administered by the University or DVMT 095.

MATH 102 College Algebra 3 cr.
Functions and their graphs; inverse functions; solutions of equations and inequalities; polynomial and rational functions; exponential and logarithmic functions; systems of equations and matrices. Every semester. *Prerequisite:* A

passing score on the Mathematics Placement Test administered by the University or DVMT 100. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS. MAY BE USED TO FULFILL CORE SKILL 3.

MATH 103 Trigonometry 3 cr.
Trigonometric functions; radian measure; polar coordinates; variation and graphs of trigonometric functions; solution of triangles, trigonometric identities and equations; inverse trigonometric functions; complex numbers. Every semester. *Prerequisite:* A passing score on the Mathematics Placement Test administered by the University or DVMT 100. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS.

MATH 104 Introduction to Mathematical Problem Solving 3 cr.
Introduction to problem solving with emphasis on strategies applied to algebra, geometry, and data analysis. Every semester. *Prerequisite:* A passing score on the Mathematics Placement Test administered by the University or DVMT 095. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS. MAY BE USED TO FULFILL CORE SKILL 3.

MATH 106 Algebra with Calculus for Business 3 cr.
Intended for students in Business and Accounting. Topics in basic and intermediate algebra, with an introduction to calculus from a computational and intuitive point of view: linear, quadratic, exponential and logarithmic functions; matrices; derivatives and antiderivatives. Applications to Business emphasized. Every semester. *Prerequisite:* A passing score on the Mathematics Placement Test administered by the University or DVMT 100. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS.

MATH 120 Pre-Calculus Mathematics 3 cr.
Topics needed for the study of calculus: functions, analytic geometry, and selected topics from algebra and trigonometry. For students who plan to study the sequence MATH 236, MATH 237, MATH 238. Every semester. *Prerequisite:* A passing score on the Mathematics Placement Test administered by the University or a C or better in MATH 102. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS. MAY BE USED TO FULFILL CORE SKILL 3.

MATH 200 An Introduction to Discrete Mathematics 3 cr.
An introduction to discrete mathematical methods in computer science. Topics include number systems; sets; functions; relations; logic; boolean algebras; methods of proof; combinations; linear algebra; graphs; trees. Variable. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS.

MATH 206 Problem Solving for Elementary Teachers I 3 cr.
Heuristics of problem solving; set theory; functions; estimation; measurement; numeration systems; rational numbers; and elementary number theory. Emphasis on students constructing and expanding their mathematical knowledge using modern technologies and pedagogies to investigate questions and solve problems. Learning activities include collecting and analyzing data from simple experiments, identifying mathematical models for the data, and using these models to make predictions which can then be tested. Admission priority will be given to Early Childhood Education and Elementary Education majors. Every semester. *Prerequisite:* a grade of C or better in either MATH 102 or MATH 209. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS.

MATH 207 Problem Solving for Elementary Teachers II 3 cr.
A continuation of MATH 206. Basic concepts of geometry, including measurement ideas, probability, and statistics. Technological tools such as spreadsheets, geometric software, and statistical packages will be used. Admission priority will be given to Early Childhood Education or Elementary Education majors. Every semester. *Prerequisite:* C or better in MATH 206. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS.

MATH 209 Elements of Applied Probability and Statistics 3 cr.
For the non-math major; less rigorous than MATH 380. Elementary probability theory; collection, organization, and analysis of data; descriptive statistics; the normal and binomial distributions; introduction to inferential statistics; and applications. Every semester. *Prerequisite:* a passing score on the Mathemat-

ics Placement test administered by the University or DVMT 095. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS. MAY BE USED TO FULFILL CORE SKILL 3.

MATH 219 Honors: Elements of Appl. Probability & Statistics 3 cr.
Introduction to statistics, with emphasis on probability theory and inferential statistics. More rigorous and broader than MATH 209. Use of the computer as a tool in statistical analyses. Probability theory; sampling distributions; estimation; hypothesis testing; parametric and nonparametric tests; correlation; regression; and analysis of variance. Written research project required. Credit cannot be earned for both MATH 209 and MATH 219. Spring. *Prerequisite:* acceptance into the University Honors Program or permission of the instructor. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS. MAY BE USED TO FULFILL CORE SKILL 3.

MATH 220 Calculus for Applications I 3 cr.
An applications-oriented approach to differential and integral calculus, for the student who desires a course more intuitive than Calculus I, II, III. Credit may not be earned for both MATH 220 and MATH 236 or MATH 226. Every semester. *Prerequisite:* A passing score on the Mathematics Placement Test administered by the University or a C or better in MATH 102. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS.

MATH 221 Calculus for Applications II 3 cr.
Continuation of MATH 220. Credit may not be earned for both MATH 221 and MATH 237 or MATH 227. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS.

MATH 236 Calculus I 4 cr.
Limits and continuity, the derivative, antiderivatives and definite integrals. Credit may not be earned for both MATH 236 and MATH 226. Every semester. *Prerequisite:* A passing score on the Mathematics Placement Test administered by the University or a grade of C or better in MATH 120. MAY BE USED TO FULFILL CORE SKILL 3.

MATH 237 Calculus II 4 cr.
Techniques and applications of integration, introductory differential equations, infinite series. Credit may not be earned for both MATH 237 and either MATH 227 or MATH 228. Every semester. *Prerequisite:* a grade of C or better in MATH 236.

MATH 238 Calculus III 4 cr.
Vectors, functions of several variables, vector functions, partial derivatives, multiple integration, line and surface integrals. Credit cannot be earned for both MATH 238 and MATH 320. Every semester. *Prerequisite:* a grade of C or better in MATH 237.

MATH 340 Fundamental Concepts of Geometry 3 cr.
Experimental and informal geometry; properties of plane and space figures; geometric constructions; proof. Variable. *Prerequisite:* MATH 207. MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS.

MATH 350 Linear Algebra I 3 cr.
Systems of linear equations; matrices and linear transformations; determinants; and vector spaces. Fall. *Prerequisite:* MATH 236 or MATH 220 or concurrent enrollment in MATH 236 or MATH 220.

MATH 380 Introduction to Probability and Statistics 3 cr.
Discrete probability theory with statistical applications. Counting techniques; random variables; distributions; expectations; hypothesis testing and estimation, with emphasis on discrete models. Spring.

MATH 415 Foundations of Mathematics 3 cr.
Theory of sets; mathematical logic; methods of proof in mathematics; the real number system; selected topics. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 237.

MATH 420 Advanced Calculus 3 cr.
Limits; continuity; differentiation and integration extended to higher dimensional spaces. Topics from vector analysis and Fourier analysis. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 238.

MATH 425 Introduction to Real Analysis**3 cr.**

Topology of real numbers; sequences, cluster points, continuity, theory of differentiation and integration; elements of measure theory; infinite series. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 238.

MATH 426 Introduction to Complex Analysis**3 cr.**

Analytic functions; Cauchy's Theorem; Taylor and Laurent series; meromorphic functions; residue theory; conformal mapping. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 238.

MATH 432 Differential Equations**3 cr.**

Solution of ordinary differential equations; Laplace transforms; numerical methods; solution by series. Spring. *Prerequisite:* MATH 237.

MATH 435 Numerical Analysis**3 cr.**

Elements of numerical methods frequently used in applied mathematics and the natural sciences; algorithms suitable for use in computers. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 237 and COSC 240 or permission of the instructor.

MATH 436 (also PHYS 436) Mathematical Physics**3 cr.**

Topics in mathematical methods: finite differences; Fourier series; partial differential equations; complex variables; and conformal mapping with physical applications. Spring, odd-numbered years. *Prerequisite:* MATH 432 and PHYS 216 or PHYS 262, or permission of instructor.

MATH 437 Combinatorics and Graph Theory**3 cr.**

General enumeration techniques; elements of graph theory; matrix representations of graphs; and applications of graph theory. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 237.

MATH 440 Modern College Geometry**3 cr.**

An introductory synthetic study of geometry: finite, absolute, affine, Euclidean, hyperbolic, elliptic, and projective geometries. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 237.

MATH 451 Modern Higher Algebra**3 cr.**

Basic study of the structure of groups and rings: isomorphism theorems; special kinds of rings; additional topics. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 237.

MATH 452 Linear Algebra II**3 cr.**

Basic study of vector spaces and their relationships to matrix algebra: the algebra of linear transformations; linear functionals and dual spaces; inner product spaces; and decomposition theorems. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 238 and MATH 350.

MATH 460 Introductory Topology**3 cr.**

The topology of Euclidean space; homeomorphisms and quotient maps; connectedness; compactness; topological surfaces; simplicial complexes and surfaces; the Euler characteristic. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 238.

MATH 461 History of Mathematics**3 cr.**

Historical development of mathematics and its concepts. Contributions of individuals and societies to the development of mathematics. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 237.

MATH 465 Theory of Numbers**3 cr.**

Divisibility; Diophantine equations; congruences; sums of squares; additional topics. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 237.

MATH 470 Mathematical Models and Applications**3 cr.**

Model-building processes; the assumptions underlying mathematical models; and the generation and interpretation of results from models. Theory and illustrative applications of modeling. Analyses of models constructed by students. Every three semesters beginning in spring 2003. *Prerequisites:* MATH 237 or permission of instructor.

MATH 480 Probability and Statistics**3 cr.**

A deeper study of probability and statistics. Continuous probability distributions and their statistical applications. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 238, MATH 380, or permission of instructor.

MATH 481 Applied Regression Analysis**3 cr.**

A matrix approach to linear and multiple regression using the latest statistical packages. Selecting the best regression equation, model building, and linear model approach to ANOVA and ANCOVA. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 380 (or MATH 209).

MATH 482 Applied Nonparametric Statistics**3 cr.**

Sign tests; tests based on ranking methods, including correlation and regression; nonparametric confidence intervals and point estimates; chi-square tests; and efficiency estimates. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 209 or MATH 219 or MATH 380.

MATH 483 Theory of Interest**3 cr.**

Measurement of interest; solutions to problems in interest; elementary annuities; more general annuities; amortization schedules and sinking funds; bonds and other securities; and other miscellaneous topics. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 237. **MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS.**

MATH 484 Actuarial Mathematics I**3 cr.**

Survival distributions and life tables; life insurance; life annuities; net premiums; and net premium reserves. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 483.

MATH 485 Actuarial Mathematics II**3 cr.**

Multiple life functions; multiple decrement models; valuation theory for pension plans; nonforfeiture benefits. Variable. See department secretary for up-to-date schedule. *Prerequisite:* MATH 484. **MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS.**

MATH 490 Selected Topics in Mathematics**3 cr.**

A specialized topic or recent development in mathematics. May be taken more than once if the topics are substantially different. Does not duplicate any other course offered by the Department of Mathematics. Fall, odd-numbered years. *Prerequisite:* MATH 238 or permission of instructor.

MATH 491 Seminar in Mathematics**3 cr.**

Individual reports and group discussions on mathematical topics and applications; review of important topics in the undergraduate curriculum; assessment exam. Written report and presentation required. Fall. Mathematics majors only. *Prerequisites:* senior status or permission of instructor. **Capstone.**

MATH 492 Internship Seminar**3 cr.**

Academic component of internship. Requires co-registration in MATH 495. Graded A-F.

MATH 495 Internship in Mathematics**6 or 12 cr.**

Experiential component of internship: guided work experience in conjunction with MATH 492; must directly relate to academic program. Full-time interns register for 12 credits in MATH 495 and 3 credits in MATH 492 and may not enroll in other courses. Part-time interns register for 6 credits in MATH 495 and 3 credits in MATH 492. Graded P/F. *Prerequisites:* good academic standing; submission of Internship Agreement form to internship director prior to registering; completion of MATH 236, 237, 238, and four math courses at 300 or 400 level (or enrollment in the fourth 300 or 400 math course) at time of applying; GPA of at least 3.0 in math; and any requirements of the sponsoring agency. **MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR A MAJOR OR MINOR IN MATHEMATICS.**

MATH 499 Individual Study in Mathematics**1-3 cr.**

Individual research performed under supervision, culminating in a written paper or completed project. Enrollment by permission of the department.

Music

Music Theory

MUSC 101 Music Fundamentals

2 cr.

The rudiments of music designed for the prospective elementary classroom teacher. Every semester.

MUSC 102 Theory I

3 cr.

Introduction to the fundamentals of music theory including rhythm, scales, intervals, voice leading, and harmony. Introduction to MIDI notational and sequencing software. Required for music majors and minors. Fall. *Prerequisite: concurrent enrollment in Aural Skills I, MUSC 104 except by permission of instructor.*

MUSC 103 Theory II

3 cr.

Continuation of MUSC 102, with further emphasis on the development of analysis and written work. Continued use of MIDI notational and sequencing software. Required for music majors and minors. Spring. *Prerequisites: MUSC 102 and MUSC 104 or permission of instructor. Concurrent enrollment in Aural Skills II, MUSC 105 except by permission of instructor.*

MUSC 104 Aural Skills I

1 cr.

Development of aural skills through sight singing and melodic and harmonic dictation. Computer-assisted lab assignments. Required for music majors and minors. Meets two hours per week. Fall. *Prerequisites: Concurrent enrollment in Theory I, MUSC 102 except by permission of instructor.*

MUSC 105 Aural Skills II

1 cr.

Continuation of MUSC 104 with further emphasis on aural skills through sight singing and melodic and harmonic dictation. Computer-assisted lab assignments. Required for music majors and minors. Meets two hours per week. Spring. *Prerequisites: MUSC 102 and MUSC 104 or permission of the instructor. Concurrent enrollment in Theory II, MUSC 103 except by permission of the instructor.*

MUSC 204 Theory III

3 cr.

A continuation of MUSC 102 and 103, exploring chromatic harmony and modulation. Written and analytical applications. Continued use of MIDI notational and sequencing software. Required for music majors. Fall. *Prerequisites: MUSC 103 and MUSC 105 or permission of instructor. Concurrent enrollment in Aural Skills III, MUSC 206 except by permission of instructor.*

MUSC 205 Theory IV

3 cr.

Further application of chromatic materials with an emphasis on 20th century techniques. Written and analytical applications. Continued use of MIDI notational and sequencing software. Required for music majors. Spring. *Prerequisites: MUSC 204 and MUSC 206 or permission of instructor. Concurrent enrollment in Aural Skills IV, MUSC 207 except by permission of instructor.*

MUSC 206 Aural Skills III

1 cr.

Continuation of MUSC 103 and MUSC 105 with further emphasis on aural skills through sight singing and melodic and harmonic dictation. Computer-assisted lab assignments. Required for music majors. Meets two hours per week. Fall. *Prerequisite: MUSC 103 and MUSC 105 or permission of the instructor. Concurrent enrollment in MUSC 204, Theory III except by permission of the instructor.*

MUSC 207 Aural Skills IV

1 cr.

Continuation of MUSC 206 with further emphasis on aural skills through sight singing and melodic and harmonic dictation. Computer-assisted lab assignments. Required for music majors. Meets two hours per week. Spring. *Prerequisite: MUSC 204 and MUSC 206 or permission of the instructor. Concurrent enrollment in MUSC 205, Theory IV except by permission of the instructor.*

MUSC 305 Orchestration

2 cr.

Study of ranges, tonal possibilities, technical limitations, and necessary transpositions for all orchestral and band instruments; scoring of short pieces in various styles for orchestra. Variable. *Prerequisites: MUSA 108 and MUSC 205.*

MUSC 356 Computer Music Technology

2 cr.

Practical approach to the use of various music applications computers, Musical Instrument Digital Interface synthesizers and associated software (sequencer and notational). Designed to give students an introductory survey of computer music technology as it applies to performance and academic

areas within the field of music. Classes are laboratory in nature, held in the Electronic Music Lab. Variable. *Prerequisite: permission of the Department.*

MUSC 401 Form and Analysis

3 cr.

Analysis of musical structure and style in Western civilization. Variable. *Prerequisite: MUSC 205.*

MUSC 407 Counterpoint

2 cr.

A stylistic approach to the study of counterpoint based on the harmonic-contrapuntal style of J.S. Bach as found in his Two- and Three-Part Inventions, Well-Tempered Clavier, and choral preludes. Variable. *Prerequisite: MUSC 205.*

Music History and Literature

MUSC 110 Introduction to World Music

3 cr.

Introduction to the style periods and genres of Western Classical music through the significant literature of the major male, female, and minority composers; survey of selected non-Western music cultures; folk, gospel, and jazz music. Every semester. *GEP Group A.*

MUSC 117 Music of Africa, Asia, and the Americas

3 cr.

Introduction to musical traditions and practices of various African societies, China, India, Indonesia, Japan, and Latin-influenced countries in Central and South America (including Caribbean nations). Every semester. *GEP Group A or F.*

MUSC 250 Women in Music

3 cr.

An examination of popular and art music by and from the perspective of women. Topics include women as performers and composers, the depiction of women in music, musical criticism, and cultural values that have affected women's participation in musical life. (Reading- and writing-intensive). Variable. *GEP Group F.*

MUSC 308 Music History I: Music of the Medieval, Renaissance, and Baroque Periods

3 cr.

A survey of musical style from Gregorian chant through the Baroque period. Analysis, listening, discussion set in a cultural context. Fall. *Not recommended for freshmen.*

MUSC 309 Music History II: Music of the Classical, Romantic, and Modern Periods

3 cr.

A survey of musical style from the Classical through the Modern periods. Analysis, listening, discussion set in a cultural context. Spring. *Not recommended for freshmen.*

MUSC 346 The Opera

3 cr.

Representative operas from 1600 to the present. Variable. *Prerequisite: permission of instructor.*

Music Teaching

MUSC 307 Music Experiences for Children

2 cr.

Classroom use of music for children from preschool through sixth grade. Singing, rhythmic activities, listening, playing instruments, and bodily movement. Every semester. *Prerequisites: MUSC 101; junior standing.*

MUSC 310 Basic Principles of Conducting I - Choral

3 cr.

Introduction to the basics elements of choral and instrumental conducting. Involves study and practice of techniques of conducting, including conducting patterns, methods of interpretation, rehearsal techniques, performance practice and style, and score analysis. Emphasis on choral, combined choral and instrumental scores. Required for all Performance Specializations and K-12 Teacher certification option majors. You cannot receive credit for both MUSC 310 and MUSC 303. Fall. *Prerequisite: MUSC 205 or permission of instructor.*

MUSC 350 Music and Creative Interaction for the Elementary Classroom Teacher

3 cr.

Classroom use of music skills for children from pre-school through sixth grade. Emphasizes the elements and skills of music and provides opportunity to develop and apply teaching strategies to the teaching of music through moving, singing, listening, playing, reading, creating and creative interaction. Designed for the elementary education major. Every semester. *Prerequisite: sophomore standing.*

- MUSC 352 Choral Music Methods K-12** 2 cr.
Materials and techniques of choral instruction, computer-assisted instruction and integrated technology, and performance at all levels of public schools. Required of voice and piano majors in teacher education. Fall, alternate years. *Prerequisites:* MUSA 287 and MUSA 415.
- MUSC 353 Instrumental Music Methods K-12** 2 cr.
Materials and techniques of instrumental instruction, computer-assisted instruction and integrated technology, and performance at all levels of public schools. Required of all instrumental majors in teacher education. Fall, alternate years. *Prerequisites:* MUSA 287 and MUSA 415.
- MUSC 358 The Business of Music & Arts Management** 3 cr.
Provides an in-depth overview of the field of Music Business and Arts Management. Management theory and practice as it is applied in the world of the arts. Mission and vision, organizational structure and leadership, facilities design and planning, technology and the arts, marketing and promotion, operations, development, legal issues and arts advocacy. Fall. *Prerequisite:* permission of instructor.
- MUSC 360 Special Topics in Music** 1-2 cr.
A focused, in-depth study on a musical topic. Does not duplicate any other course offered by the Department. May be repeated up to 4 credits. *Prerequisite:* Permission of the department.
- MUSC 410 Basic Principles of Conducting II - Instrumental** 2 cr.
A continuation of Basic Principles of Conducting I. Emphasizes baton technique, score reading and analysis, and rehearsal procedures. Emphasis on instrumental scores. Required for K-12 certification. You cannot receive credit for both MUSC 410 and MUSC 404. Spring. *Prerequisite:* permission of the instructor.
- MUSC 411 Marching Band Techniques** 2 cr.
The techniques of show planning, preparation, presentation: precision movement, music selection, and arranging. Fall, alternate years. *Prerequisite:* permission of instructor.
- MUSC 492 Senior Project Paper** 3 cr.
Student will complete a 15-20 page paper on a subject related to the Internship Experience, pre-approved by advisors in both Music and Business and evaluated when complete by the same parties. Graded A-F. Every semester. *Prerequisites:* MUSA 287 and MUSA 415; senior standing, concurrent enrollment in MUSC 495, and permission of instructor. Music Management Capstone.
- MUSC 495 Internship in Music Management** 6-9 cr.
Guided work experience with an academic component. Work must be directly related to academic program. Students may not enroll in other courses without permission. Must be taken concurrently with MUSC 492 Senior Project Paper. Graded P/F. Every semester. *Prerequisites:* MUSA 287 and MUSA 415; senior standing, concurrent enrollment in MUSC 492, and permission of instructor.
- MUSC 499 Individual Research in Music** 1-6 cr.
Intensive individual study in an area of special interest under the direction of a faculty member. Variable. *Prerequisites:* MUSA 287 and MUSA 415; permission of Department Chair.
- Applied Music**
- MUSA 100 Student Recital** 0 cr.
For students in the 2004 and prior catalogs only. A performance opportunity and music literature exposure for students in private instruction, required every semester for music majors and minors.
- MUSA 101 Student Recital Attendance** .5 cr.
Required for music majors in the 2005 and later catalogs. Experience in musical performance and literature through concert attendance. Required for all music majors and minors. Every semester.
- MUSA 104 Class Piano I** 1 cr.
Basics of keyboard technique for students with little or no piano experience. Keys, scales, and chords leading to simple accompaniments of songs suitable for elementary classroom. Fall. *Prerequisite:* permission of instructor.
- MUSA 105 Class Piano II** 1 cr.
Continuation of MUSA 104, with emphasis on styles of harmonization, transposition, and sight-reading. Spring. *Prerequisite:* MUSA 104 or permission of instructor.
- MUSA 106 Class Voice I** 1 cr.
Fundamentals of voice production: breath management, resonance, and diction. Individual voice diagnosis and application of vocal principles. Vocal exercises and song literature for the development of a singing technique. Fall. *Prerequisite:* permission of instructor.
- MUSA 107 Class Voice II** 1 cr.
Continuation of MUSA 106. Spring. *Prerequisite:* MUSA 106.
- MUSA 108 Class Instruments I: Strings** 1 cr.
Basic instruction on how to play the violin, viola, cello and string bass: bowing, fingering, tone quality, position, and care of these instruments. A systematic approach to organization, implementation and teaching of string classes in the schools. Required of instrumental music majors. Fall.
- MUSA 111 Class Guitar I** 1 cr.
Fundamentals of guitar technique for students with little or no guitar or music experience. Music reading, rudiments of theory, melodic playing, and accompaniment. Students provide their own instrument. Two 50-min. classes or one 100-min. class per week. Fall.
- MUSA 112 Class Guitar II** 1 cr.
For students who read music and have had some previous experience with the guitar. Melodic and accompaniment styles. Spring. *Prerequisite:* MUSA 111 or permission of instructor.
- MUSA 116-123 Private Instruction** 1 cr.
Private study in instrument or voice as a minor performance specialty. For majors or non-majors. May be repeated for credit until program is completed. Performance for a faculty jury at the end of each semester in lieu of a final examination. Every semester. *Prerequisite:* permission of the instructor.
- MUSA 208 Class Instruments III: Woodwinds** 1 cr.
The basic performance and teaching techniques of the woodwinds. Fall.
- MUSA 209 Class Instruments IV: Brass** 1 cr.
Class instruction in the standard brass instruments, designed to prepare future instrumental teachers at all levels of the public schools. Spring.
- MUSC 210 Diction for Singers** 2 cr.
Acquaints students with the symbols and sounds of the International Phonetic Alphabet and with the application of the IPA to the English, French, German, Italian, Latin and Spanish languages. Differences between spoken and sung languages explored and physical processes required to produce the various sounds investigated and practiced. (Required for vocal performance and choral education majors). Fall.
- MUSA 213 Piano Pedagogy** 2 cr.
A methods and materials course for those preparing for piano studio teaching. Limited opportunities for teaching experience are provided in the Preparatory Division of the Music Department. Variable. *Prerequisite:* permission of instructor.
- MUSA 287 Sophomore Evaluation** 0 cr.
Sophomore review that demonstrates musical performance and academic ability to continue in the major. Perform two or three contrasting works for the music faculty. Required of all music majors. May be repeated once. Graded P/F. Every semester. *Prerequisite:* Permission of the instructor, completion of MUSC 207, MUSC 215 and MUSA 415.
- MUSA 311 Class Instruments V: Percussion** 1 cr.
Class instruction in the standard percussion instruments, designed to prepare future instrumental teachers at all levels of the public schools. Spring.
- MUSA 356-363 Private Instruction** 2 cr.
Individual instruction in piano, organ, voice, strings, guitar, woodwinds, brass, and percussion. Minimum of 1 clock-hour per day intensive individual practice. One hour private lesson or two-half hour private lessons per week. At least one student recital and class recital performance each semester. Performance for a faculty jury at the end of each semester in lieu of a

final examination. Must be repeated for credit until program is completed. Every semester. *Prerequisite: permission of the instructor.*

MUSA 390 Junior Recital 1 cr.
Junior Recital for the Bachelor of Arts or Science Music Degree. Preparation and performance of the junior recital. Graded P/F. Every semester. *Prerequisites: MUSA 287 and MUSA 415, and junior recital clearance. All students must be concurrently enrolled in MUSA 300-level private instruction.*

MUSC 413 Vocal Pedagogy 2 cr.
The various schools of vocal technique. Designed to prepare the prospective teacher of private and class voice. Two periods per week. Spring. *Prerequisites: minimum of 2 yrs. of vocal study and the ability to play simple piano accompaniments.*

MUSA 415 Piano Proficiency Exam 0 cr.
Successful demonstration of functional keyboard skills for Music Teaching Certification, Performance and Music Management majors. Includes technical facility, sight-reading, transposition, improvisation and prepared repertoire. Required for all music majors for admission to upper division courses. Scheduled by appointment. Pass/Fail only.

MUSA 490 Senior Recital 1 cr.
Senior Recital for the Bachelor of Arts or Science Music Degree. Preparation and performance of the senior recital. Performance majors must also have successfully completed their junior recital (MUSA 390). Graded P/F. Every semester. *Prerequisites: MUSA 287 and MUSA 415 and senior recital clearance. Must be concurrently enrolled in MUSA 300-level private instruction. Vocal and Instrumental Performance, Music Teaching Capstone.*

Ensemble

All ensemble courses may be repeated for credit.

MUSC 315 Piano Ensemble 1 cr.
Study, rehearsal and performance of piano ensemble literature. Every semester. *Prerequisite: permission of instructor, audition required.*

MUSC 319 University Chorale 1 cr.
A select mixed chorus with repertoire from all historical periods. Open to all students by permission of instructor. Every semester.

MUSC 321 Opera Workshop 1 cr.
Study of portions or all of an opera to be performed in class or public performance. Every semester. *Prerequisites: keyboard knowledge, voice private instruction, and permission of instructor.*

MUSC 327 Concert Jazz Ensemble 1 cr.
Members selected by audition each semester. Three rehearsals per week. Every semester. *Prerequisite: permission of instructor.*

MUSC 329 Marching Band: Concert Band 1 cr.
The first half of the semester devoted to marching; the second half to concert music. Extra rehearsals on Friday and Saturday before home football games. Open to all students with ability on needed instruments. Fall. *Prerequisite: permission of instructor.*

MUSC 330 Wind Ensemble 1 cr.
Concert literature selected from both contemporary and traditional wind ensemble repertoire. Biannual concert tour. Open to students from all departments by audition. Every semester. *Prerequisite: permission of instructor.*

MUSC 331 Brass Ensemble 1 cr.
Study, rehearsal, and performance of brass-wind literature. Every semester. *Prerequisite: permission of instructor; audition required.*

MUSC 335 String Ensemble 1 cr.
Study, rehearsal, and performance of string literature — principally the string quartet. Every semester. *Prerequisite: permission of instructor; audition required.*

MUSC 336 Chamber Guitar Ensemble 1 cr.
Performance of selected guitar repertoire in an ensemble setting. Public performances and/or recitals may be scheduled. Repeatable each semester for credit. One hour-long meeting each week. *Prerequisite: ability to sight-read in upper positions of the fingerboard. Enrollment limited to majors who list guitar as their primary instrument, or to non-majors by audition.*

MUSC 337 Woodwind Ensemble 1 cr.
Study, rehearsal, and performance of woodwind instrument literature — principally clarinet, flute, and saxophone quartets and woodwind quintets. Every semester. *Prerequisite: permission of instructor; audition required.*

MUSC 339 Percussion Ensemble 1 cr.
Study, rehearsal, and performance of percussion ensemble literature. Every semester. *Prerequisite: permission of instructor; audition required.*

MUSC 340 Chamber Chorale 1 cr.
Madrigals and other works for small vocal ensembles calling for one to four people on a part; occasional use of instruments. Every semester. *Prerequisite: permission of instructor; audition required.*

Orientation

ORIE 101 Introduction to Higher Education 1 cr.
Orientation of incoming students to academic and social contexts of college life. Nature and process of higher education; educational and career planning; learning skills; support services. Required of all entering freshmen with less than 13 semester hours of transfer credit. Students may not withdraw from the course unless they are withdrawing from the University.

Philosophy

PHIL 101 Introduction to Philosophy 3 cr.
Philosophical approaches to three major content areas: personal relationships (e.g., friendship), social-political structures (e.g., democracy), worldviews (e.g., the problem of God). Every semester. *GEP Group B.*

PHIL 102 Contemporary Ethical Problems 3 cr.
Ethical issues such as abortion, euthanasia, preferential treatment, censorship of pornography, world hunger, the environment, and the treatment of animals. Every semester. *GEP Group B.*

PHIL 111 Honors: Introduction to Philosophy 3 cr.
Philosophical problems such as the meaning of existence, freedom and determinism, body versus mind, the existence of God, the human person and human relationships. Credit cannot be earned for both PHIL 101 and PHIL 111. Variable. *Prerequisite: acceptance into Honors Program or permission of instructor. GEP Group B.*

PHIL 201 Ethics 3 cr.
Ethical theories or selected problems in moral philosophy (e.g., relativism versus absolutism, the nature of value judgments). Variable.

PHIL 202 History of Philosophy: Ancient and Medieval 3 cr.
Classical western philosophy from the early Greeks to the Renaissance. Emphasis on Pre-Socratics, Plato, Aristotle, Augustine, and Aquinas. Fall.

PHIL 203 History of Modern Philosophy 3 cr.
Western philosophy in the modern period; the rationalist tradition (Descartes, Spinoza, Leibniz) and the empiricist tradition (Locke, Berkeley, Hume); some reference to Kant. Spring.

PHIL 205 Logic 3 cr.
A study of the forms of reasoning: inductive, deductive; fallacies. Variable.

PHIL 302 Philosophy of Religion 3 cr.
A study of religious experience, religious language, and the question of a rational basis for religious belief. Variable. *Recommended: 3 cr. in philosophy.*

PHIL 303 Aesthetics 3 cr.
Analysis of the nature of art and its creation, appreciation, and criticism; the major theories of art. Variable. *Recommended: 3 cr. in philosophy.*

PHIL 304 Social Philosophy 3 cr.
Issues arising out of the relationship between individuals and society. Themes such as social values, law, and the ideal of justice. Spring. *Recommended: 3 cr. in philosophy.*

PHIL 306 Philosophy of Science**3 cr.**

A study of the logical structure of the natural sciences. Topics such as the nature of scientific evidence, scientific explanation, and the objectivity of scientific knowledge. Variable. *Recommended: 3 cr. in philosophy*

PHIL 308 Political Philosophy**3 cr.**

Issues arising out of the relationship between individuals and the state. Issues associated with the ongoing transformation of national states and the relationship between the states, international finance and the global community. Themes such as power, authority, democracy, law, rights, political ideologies, globalization and terrorism. Variable. *Recommended: 3 cr. in philosophy. GEP Group F.*

PHIL 311 Asian and African Philosophy**3 cr.**

A study of the major concepts of Indian philosophy with an emphasis on Hinduism and Buddhism, Chinese philosophy with an emphasis on Confucianism and Taoism, and African philosophy with an emphasis on the community orientation of ethics and philosophical anthropology. Variable. *Recommended: 3 cr. in philosophy. GEP Group F.*

PHIL 313 Biomedical Ethics**3 cr.**

Ethical issues in medicine and biomedical research. Such problem areas as the physician/patient relationship, patients' rights and professionals' obligations, human experimentation, genetics and reproductive technologies, and social justice and health care. Spring. *Recommended: 3 cr. in philosophy.*

PHIL 314 Business Ethics**3 cr.**

Ethical issues in business. Such problem areas as the morality of capitalism, the social responsibility of business, the concept of corporate responsibility, business and the environment, the rights and responsibilities of employees, whistleblowing, the ethics of advertising, multinational corporations, feminist and minority concerns about business. Variable. *Recommended: 3 cr. in philosophy.*

PHIL 315 Philosophy and the Environment**3 cr.**

A philosophical investigation of environmental issues. Anthropocentric, ecocentric, individualist, and ecofeminist approaches to the environment as well as perspectives from many cultures and religions. Connections between environmental science, ethics, and aesthetics in a historical context will be made. Variable. *Recommended: 3 cr. in philosophy.*

PHIL 316 The Meaning of Life**3 cr.**

Issues concerning the meaning of life. Such issues as the various meanings of the phrase "the meaning of life," the dependence of a meaningful life on the existence of God and/or an afterlife, the absurdity of life, and how life ought to be lived. Variable. *Recommended: 3 cr. in philosophy.*

PHIL 409 Philosophy and Women**3 cr.**

Topics will include philosophical views of and by women, an examination of the extent to which gender related values underlie and permeate philosophical method and theory, and an examination of ways in which gender interrelates with other social categories such as race, ethnicity, and class. Variable. *Recommended: 3 cr. in philosophy or WMST 201. GEP Group F.*

PHIL 410 Philosophy of Law**3 cr.**

Leading issues in the philosophy of law. Such topics as the nature of law and its relation to morality, the concept of responsibility, and the justification of punishment. Highly recommended for those interested in the theory of legal concepts and legal reasoning. Fall. *Recommended: 3 cr. in philosophy.*

PHIL 451 Seminar in Existentialism**3 cr.**

Origins of existential thought in Kierkegaard and its subsequent development in Heidegger, Jaspers, Marcel, Sartre, Merleau-Ponty, and Ricoeur. Such concepts as existence, historicity, freedom, and consciousness. Credit cannot be earned for both PHIL 451 and PHIL 407. Variable. *Prerequisite: 15 cr. in philosophy or permission of instructor. Capstone.*

PHIL 452 Seminar in Contemporary Metaphysics**3 cr.**

Contemporary approaches to problems in both special and general metaphysics. Problems in special metaphysics such as free will, personal identity, mind-body, and immortality. Problems in general metaphysics such as universals, substance, change, and time. Credit cannot be earned for both PHIL 452 and PHIL 412. Variable. *Prerequisite: 15 cr. in philosophy or permission of instructor. Capstone.*

PHIL 455 Seminar in Philosophy**3 cr.**

An in-depth exploration in a seminar format of some area or philosophy of some philosophical problem or topic selected by the instructor. Repeatable, with different subject matter, to 6 credits. Variable. *Prerequisite: 15 cr. in philosophy or permission of instructor. Capstone.*

PHIL 490 Special Topics in Philosophy**3 cr.**

In-depth analysis of a topic, selected by instructor, for development thematically or historically. Repeatable, on a different topic, to 6 credits. Variable. *Recommended: 3 cr. in philosophy.*

PHIL 499 Individual Research in Philosophy**1 to 6 cr.**

Independent study of a philosopher, period, movement, or problem, initiated by student in consultation with instructor. Variable. *Prerequisites: 12 cr. in philosophy and permission of instructor.*

Physics

Physical Science

PHSC 100 Cosmic Concepts**3 cr.**

A descriptive approach to the major physical concepts developed over the past four centuries and their relationship to the historical and philosophical context in which they arose. Emphasis will be on the origin, meaning, significance, and limitations of these concepts. Every semester. *GEP Group C.*

PHSC 101 Measurement**1 cr.**

A laboratory experience in observation, measurement, graphical analysis, and discovery in Physical Science. Designed for non-science majors. One two-hour laboratory per week. Every semester. *Prerequisite or corequisite: PHSC 100. GEP Group C.*

PHSC 201 Physical Science I**3 cr.**

Physical phenomena and their role in modern society: the basic concepts of classical physics and their application. Students weak in mathematics should take MATH 104 before enrolling. Variable.

PHSC 202 Physical Science II**3 cr.**

Continuation of Physical Science I with emphasis on the basic concepts of modern physics and chemistry. Students weak in mathematics should take MATH 104 before enrolling. Variable. *Prerequisite: PHSC 201.*

PHSC 203 Physical Science**4 cr.**

Physical phenomena and their role in modern society: basic concepts of physics, chemistry, and astronomy, with energy and environment as the unifying theme. Three hrs. lecture and 3 hrs. lab. Every semester. Intended for education majors. *GEP Group C.*

PHSC 205 Descriptive Meteorology**3 cr.**

Aspects of the atmosphere, weather variables, radiation, clean and dirty air, clouds and precipitation, atmospheric electricity, and weather forecast and modification. Field work included. Variable.

PHSC 210 Descriptive Astronomy**3 cr.**

Aspects of the sky, the history and early development of astronomy, the solar system, stars, galaxies, cosmology, life beyond the earth, and current topics in astronomy. Lectures, planetarium demonstrations, and field work. Fall.

PHSC 211 Descriptive Astronomy Laboratory**1 cr.**

Introductory lab course of sky observing with the unaided eye and simple instruments: outdoor daytime observing and the planetarium simulation of the night sky. Designed for the non-science major. One 2-hr. lab per week. Variable. *Corequisite or prerequisite: PHSC 210.*

PHSC 220 The Solar System**3 cr.**

Solar and planetary discoveries since 1971, as revealed by NASA space probes. The solar atmosphere and the planets' magnetic fields; atmospheres and surfaces of the terrestrial planets; rings and atmospheres of the giant planets; major satellites; and the origin of the solar system. Variable. *Prerequisite: PHSC 210.*

PHSC 230 The Search for Life Beyond Earth**3 cr.**

General survey of conditions across the universe; nature and probable origin of terrestrial life; possibilities of life for the other planets in our solar system;

and the likelihood and techniques of contacting or communicating with intelligences beyond our solar system. Variable.

PHSC 240 Descriptive Acoustics of Music and Hi-Fidelity 3 cr.
Introductory acoustics course. The physical principles underlying the production, perception, and reproduction of music. Variable.

PHSC 290 Selected Topics in Physical Science 3 cr.
A selected topic of current interest in physical science. Variable.

PHSC 315 Digital Electronics 4 cr.
A lab-oriented course with emphasis on computer applications, including registers, counters, interfacing, and arithmetic circuits. Three hrs. lecture and 3 hrs. lab. Variable. *Prerequisite:* COSC 100.

PHSC 350 Practical Solar Energy 4 cr.
Introduction to the principles of solar energy and how to install actual systems. Three hrs. lecture and 2 hrs. lab. Variable.

PHSC 444 Metaphysics and Modern Physics 3 cr.
Interdisciplinary study of 20th-century physics and ancient Asian metaphysics. Concepts of reality proposed by Newton, Einstein, Heisenberg, and other physicists; and by Lao-Tzu, Buddha, Hui Neng, and other ancient philosophers. Lecture. Also offered as HUMA 444. Spring.

Physics

PHYS 215 General Physics I 4 cr.
Non-calculus introduction to the theoretical and experimental foundations of physics, topics to include mechanics and heat, the fundamental concepts, principles, and laws of physics. Three hrs. lecture and 3 hrs. lab. Either an introduction to the field for prospective majors or a self-contained survey for others. Fall. *A familiarity with high school mathematics including algebra and geometry is assumed.* GEP Group C.

PHYS 216 General Physics II 4 cr.
A continuation of PHYS 215. Non-calculus introduction, topics to include electricity, magnetism, and light. The fundamental concepts, principles, and laws of physics. Three hrs. lecture and 3 hrs. lab. Spring. *Prerequisite:* PHYS 215.

PHYS 261 Principles of Physics I: Mechanics 4 cr.
Calculus-based introduction to the theoretical and experimental foundations of physics focusing on mechanics. Topics to include kinematics, dynamics, energy, momentum, rotational dynamics, and continuum mechanics. Intended primarily for physical science, engineering and math majors. Six hours of integrated lecture/lab/discussion per week. Fall. *Corequisite:* MATH 120. GEP Group C.

PHYS 262 Principles of Physics II: Electricity and Magnetism 4 cr.
Calculus-based introduction to the theoretical and experimental foundations of physics focusing on Electricity and Magnetism. Topics to include electrostatics, electrodynamics, magnetostatics, electromagnetic induction and Maxwell's equations. Six hours of integrated lecture/lab/discussion per week. Spring. *Prerequisite:* PHYS 261. *Corequisite:* MATH 236.

PHYS 263 Principles of Physics III: Sound & Light 4 cr.
Calculus-based introduction to the theoretical and experimental foundations of physics focusing on sound and light. Topics to include vibration, wave motion, acoustics, geometrical optics, physical optics, and special relativity. Six hours of integrated lecture/lab/discussion per week. Fall. *Prerequisite:* PHYS 262. *Corequisite:* MATH 237.

PHYS 264 Principles of Physics IV: Thermodynamics & Modern Physics 4 cr.
Calculus-based introduction to the theoretical and experimental foundations of physics focusing on thermodynamics and modern physics. Topics to include heat, thermodynamics, kinetic theory, atomic physics, and quantum physics. Six hours of integrated lecture/lab/discussion per week. Spring. *Corequisite:* MATH 238. *Prerequisite:* PHYS 263.

PHYS 282 Thermodynamics 3 cr.
Introduction to thermodynamics. Thermodynamic properties of matter. Three laws of thermodynamics, cycles, reactions, mixtures. Fall, odd numbered years. Also offered as ENME 232. *Prerequisites:* PHYS 261 and 262.

PHYS 300 Introductory Astrophysics 3 cr.
Application of physics and mathematics to astrophysics. Celestial mechanics, stellar structure, and stellar evolution. Fall, even-numbered years. *Prerequisites:* PHYS 216 or PHYS 262, and MATH 237, or permission of instructor.

PHYS 310 Classical Mechanics 4 cr.
Development of particle and rigid body mechanics from Newton's Laws using the notation and methods of vector calculus. Particle motion, central forces, conservation principles, rigid body dynamics, and introduction to Lagrange's equations. Spring. *Prerequisite:* PHYS 263 and junior standing. *Corequisite:* MATH 432.

PHYS 311 Thermodynamics 3 cr.
Introduction to thermodynamics. Thermodynamic properties of matter. Three laws of thermodynamics, cycles, reactions, mixtures. Fall, odd numbered years. Not open to students who have received credit for former PHYS 282 or ENME 232. *Prerequisites:* PHYS 261 and 262.

PHYS 312 Electricity and Magnetism 4 cr.
Classical theory of electricity and magnetism using the techniques of vector calculus. Electrostatics, magnetostatics, polarized media, currents and their associated fields, and Maxwell's equations. Fall. *Prerequisite:* PHYS 263 and junior standing. *Corequisite:* MATH 432.

PHYS 313 Optics 3 cr.
The nature and propagation of light, including reflection, refraction, diffraction, coherence, and interference, treated from the point of view of electromagnetic theory. Introduction to quantum optics. Spring, odd-numbered years. *Prerequisite:* PHYS 263.

PHYS 320 Experimental Physics 2 cr.
Application of contemporary methods and instruments to the experimental observation and measurement of classical and modern physical phenomena. Experiments chosen from mechanics, heat, thermodynamics, acoustics, electricity, magnetism, optics, and modern physics. Two 3-hr. labs. Fall. *Prerequisite:* PHYS 264.

PHYS 331 Analog Electronics 4 cr.
Basic principles of modern electronic devices, including DC and AC circuit analysis, diodes and power supplies, amplifier characteristics, op amps, transistors and transistor amplifiers, waveform generators. Six hours integrated lecture and lab. Not open to students with credit for PHYS 316. Fall. *Prerequisites:* PHYS 216 or PHYS 262, MATH 236, or permission of instructor.

PHYS 332 Digital Electronics 4 cr.
Basic principles of digital electronic devices, including TTL and CMOS logic families, gates, flip-flops, counters, registers, memory devices, displays, D to A and A to D converters, digital instruments, elementary computer interfacing techniques. Six hours integrated lecture and lab. Spring. *Prerequisite:* PHYS 331.

PHYS 340 Audio Engineering 3 cr.
Basic principles of audio engineering including acoustics, electroacoustic devices, electronic components for audio-engineering, audio measurements, audio electronic circuits and equipment, and audio recording and playback. Includes elements of both analog and digital audio. Two hrs. lecture, 2 hrs. lab. Fall, even-numbered years. *Prerequisites:* PHYS 263 and MATH 237 or permission of the instructor.

PHYS 410 Theoretical Mechanics 3 cr.
Lagrangian and Hamiltonian formulation of mechanics with applications, the theory of small oscillations, the theory of wave motion in solids, reflection of waves, and mechanics of continuous fluids. Variable. *Prerequisites:* PHYS 310 and MATH 432.

PHYS 412 Theoretical Electromagnetism 3 cr.
Theory of the magnetic properties of matter, Maxwell's equations with applications to wave propagation in isotropic and anisotropic media, scattering of electromagnetic waves, physics of the plasma state, fields and radiation from moving charges. Variable. *Prerequisites:* PHYS 312 and MATH 432.

PHYS 415 Computer Interfacing 3 cr.
Basic digital computer interfacing, combining digital electronics, programming, and computer architecture. Topics include transducers, electronic amplification, D/A and A/D conversion, data sampling, data storage and

retrieval, laboratory exercises in discrete and integrated software, survey of commercially available interface devices. Two hrs. lecture and three hrs. lab. Variable. *Prerequisites:* COSC 240, PHYS 216 or PHYS 262, and PHSC 315 or PHYS 332 or permission of instructor. Also offered as COSC 415.

PHYS 417 Quantum Physics 3 cr.
The breakdown of classical mechanics and the development of quantum theory, the foundations of the Schrodinger Equation, the uncertainty principle, quantum systems in one dimension, angular momentum, spin, and atomic physics. Fall, odd-numbered years. *Prerequisite:* PHYS 264. *Corequisite:* MATH 432.

PHYS 420 Introduction to Computational Physics 3 cr.
Introduction to the methods of computational physics. Explores some of the basic techniques and ideas used to solve physics problems with the aid of computers. Students develop computer programs in a high-level programming language to solve specific problems. Topics include examples from several fields of engineering such as mechanics, heat transfer, fluid dynamics, electricity and acoustics. Variable. *Prerequisites:* PHYS 310, MATH 238, and COSC 240 or permission of instructor.

PHYS 436 Mathematical Physics 3 cr.
Topics in mathematical methods: finite differences, Fourier series, partial differential equations, complex variables, and conformal mapping with physical applications. Also offered as MATH 436. Spring. *Prerequisites:* MATH 432 and PHYS 216 or PHYS 262, or permission of instructor.

PHYS 440 Acoustics 3 cr.
Introduction to the theory of wave motions. Production, properties, measurements, and applications of sonic and ultrasonic waves. Spring, even-numbered years. *Prerequisite:* PHYS 263.

PHYS 490 Special Topics 1-3 cr.
Study at the senior level of one of the fields or recent developments of contemporary physics, such as ultrasonics, musical acoustics, atmospheric physics, astrophysics, or radiation physics. May be repeated for credit. Variable. *Prerequisite:* permission of instructor.

PHYS 491 Seminar 2 cr.
Individual reports and group discussions on current topics. Subject matter selected jointly by student and instructor. Preparation of proposal for a research project. Review of basic concepts in mechanics, electrodynamics, thermodynamics, and atomic physics. Fall. For *physics majors with junior or senior standing*. May be repeated once for credit.

PHYS 492 Senior Research & Seminar 2 cr.
Under the direction of a faculty member, students engage in independent research. Research culminates in a paper and formal public seminar. Spring. May be repeated once for credit. *Prerequisite:* PHYS 491 or permission of instructor. Capstone.

PHYS 499 Special Projects 2-4 cr.
Advanced lab projects for the superior student. Project chosen by the student in consultation with a member of the Department; may be a theoretical problem. Independent search of the pertinent literature, formulation of the experimental method, conducting the investigation, and the preparation of a report. May be repeated for credit. Variable. *Prerequisite:* permission of Chair of Department.

Political Science

POSC 110 Introduction to American Politics 3 cr.
Interaction of the public and government in making American public policy. Processes and institutions of American national government; political parties and elections; public opinion and media; constitutional, legal, and cultural context. Every semester. *GEP Group D*.

POSC 112 Honors Introduction to American Politics 3 cr.
Accelerated study of the politics of a democratic society in a constitutional, legal, and cultural context. Major institutions (Congress, president, courts, bureaucracies) of U.S. national government; political behavior of the public. Computer-based data analysis; prior computer experience not necessary. Credit cannot be earned for both POSC 110 and POSC 112. Variable. *Prerequisite:* acceptance into the Honors Program or permission of the instructor. *GEP Group D*.

POSC 113 Introduction to World Politics 3 cr.
Exploration of the major issues in world politics including evolution of the international system, political actors in world politics, patterns of conflict and cooperation, power, nationalism, international political economy, and international organizations. Students who previously received credit for POSC 211/213 cannot receive credit for this course. Every semester. *GEP Group D*.

POSC 114 Honors Introduction to World Politics 3 cr.
Accelerated study of major issues in world politics including evolution of the international system, political actors in world politics, patterns of conflict and cooperation, power, nationalism, international political economy, and international organizations. Credit cannot be earned for both POSC 113 and POSC 114. Fall. *Prerequisite:* Acceptance into the Honors Program or permission of the instructor. *GEP Group D*.

POSC 131 Introduction to Comparative Politics 3 cr.
Comparative analysis of representative political systems including: the effect of legal, institutional and social structures on policy; interaction of domestic politics and the global system. Students who previously received credit for POSC 231 cannot receive credit for this course. Every semester. *GEP Group D or Group F*.

POSC 250 Research Methods 3 credits
Development of the analytical skills necessary to evaluate political research and political phenomena including formulating and assessing research questions, measuring concepts, finding appropriate evidence, and evaluating existing literature. Take before enrolling in 300 or 400 level departmental courses. Every Semester. Not open to students who have credit for former POSC 311. *Prerequisites:* POSC 110/112 or POSC 113/114 or permission of instructor.

POSC 321 American State and Local Politics 3 cr.
Local, county, and state governments in the U.S., with emphasis on Maryland. Role of states in the federal system. Every semester. *Prerequisite:* POSC 110/112 or permission of instructor.

POSC 323 Public Administration 3 cr.
Exploration of the administrative functions of US government; focus on national government; comparisons with private sector; emphasis on issues of efficiency. Every semester. Not open to students who have credit for former POSC 351. *Prerequisite:* POSC 110/112 or permission of instructor.

POSC 324 Criminal Justice Systems 3 cr.
Structure, function, and social impact of criminal legal systems; "law" and "justice." Participants in the legal process: police, prosecuting and defense attorneys, judges, jurors, correctional officials, litigants, the press. State, national, and international comparisons; proposals for reform. Every semester. Not open to students who have credit for former POSC 354. *Prerequisite:* POSC 110/112 or permission of instructor.

POSC 330 Politics of Africa 3 cr.
Examination of the economic and political development of modern African states. Topics include the impact of colonization, theories of development, theories of integration into the contemporary global economic system and the process of state building. The focus will be on selected countries as case studies. Variable. *Prerequisite:* POSC 113/114 or POSC 131; POSC 131 preferred.

- POSC 331 Politics of Latin America** 3 cr.
Examination of the development of political and economic systems in Latin America. Topics include the effects of colonization, the application of theories of development, approaches to integration into the contemporary global economic system and patterns of state building. The focus will be on selected countries as case studies. Variable. *Prerequisite:* POSC 113/114 or POSC 131; POSC 131 preferred.
- POSC 332 Politics of Middle East** 3 cr.
Examination of political and economic development of modern Middle Eastern states. Topics include the impact of colonization, approaches to development and modernization, integration into the world economy, regional politics of inclusion and global exclusion. The focus will be on selected countries as case studies. Variable. *Prerequisite:* POSC 113/114 or POSC 131; POSC 131 preferred.
- POSC 333 Politics of Europe** 3 cr.
Examination of the structures of governments, ideologies, policies, and contemporary issues and problems facing the states of Europe and the European Union. Spring. *Prerequisite:* POSC 113/114 or POSC 131; POSC 131 preferred. *Students who previously received credit for POSC 333 cannot receive credit for this course.*
- POSC 341 International Organization** 3 cr.
Structure and activities of international organizations as mechanisms of foreign policy and international and transnational cooperation. Security concerns; international political economy; economic development and integration; human rights. Spring. *Prerequisite:* POSC 113/114 or POSC 131.
- POSC 342 Foreign Policy of the United States** 3 cr.
Formulation and conduct of U.S. foreign policy; key agencies, inter-branch relations; decision-making models. Societal and international influences on U.S. foreign policy behavior. Fall. *Prerequisite:* POSC 113/114 or POSC 131.
- POSC 352 Interest Groups** 3 cr.
Organization and activities of modern interest groups; impact of interest groups on public policy. Interest group formation, recruitment of members, internal organization, role in election campaigns, lobbying. Variable. *Prerequisite:* POSC 110/112 or permission of instructor.
- POSC 355 Public Budgeting** 3 cr.
Examination of the role that budgeting plays in state, local and national level politics. Investigation of current prevailing and recent historical techniques of budgeting. Exploration of current issues involving the interplay of politics and budgeting. Variable. *Prerequisite:* POSC 110/112 or permission of the instructor.
- POSC 358 American Public Policy** 3 cr.
Application of analytical tools to American public policy areas. Comparison of strengths and weaknesses of markets and governments; techniques for framing policy questions; exploration of currently policy areas through simulations and analysis. Not open to students who have credit for former POSC 458. Every year. *Prerequisite:* POSC 110/112 or permission of instructor.
- POSC 361 Public Opinion and Political Behavior** 3 cr.
How the ordinary citizen relates to politics, particularly in the U.S. Positions on basic issues; polls and surveys; formation of attitudes; ideology; participation and voting; propaganda and the media; public impact on government policy. Computer-based data analysis; prior computer experience not necessary. Variable. *Prerequisite:* POSC 110/112 or permission of instructor.
- POSC 362 Political Parties and Elections** 3 cr.
Organization and activities of modern political parties. Evolution of party systems in the United States; role in election campaigns; impact on public policy. Comparison to other political systems. Variable. *Prerequisite:* POSC 110/112 or permission of instructor.
- POSC 363 Media and Politics** 3 cr.
Effects of mass media, particularly television, on American politics and society; use of the media by politicians; nature and impact of news reporting; media and the socialization process; freedom of the press. Variable. *Prerequisite:* POSC 110/112 or permission of instructor.
- POSC 365 Women and Politics** 3 cr.
Examination of the changing political role of women in the United States. Political attitudes and values; voting; candidacy; and behavior of elected officials. Comparison across U.S. subcultures. Variable. *Prerequisite:* POSC 110/112 or permission of instructor.
- POSC 370 Introduction to Political Thought** 3 cr.
Introduction to the major thinkers and perspectives in Western political thought. Exploration of the seminal ideas of human nature, the nature of the state, and the good life that form the theoretical underpinnings of current political perspectives such as conservatism, liberalism, socialism, and fascism. Every year. *Prerequisites:* POSC 110/112, POSC 113/114 or POSC 131 or permission of instructor.
- POSC 421 American Legislative Politics** 3 cr.
Legislative politics in the U.S.; historical role of legislatures in American politics. Relations between legislatures and constituencies; congressional elections; internal formal and informal structures of Congress; congressional decision-making. Variable. *Prerequisite:* POSC 110/112 or permission of instructor.
- POSC 422 American Constitutional Law I** 3 cr.
Study of the U.S. Supreme Court as an institution within the American political system; the U.S. Constitution as defined in the principal decisions and opinions of the U.S. Supreme Court: the U.S. Supreme Court's interpretation of the powers of three branches of federal government and the relationship between federal and state government. Every semester. *Prerequisite:* POSC 110/112 or permission of instructor.
- POSC 423 American Constitutional Law II** 3 cr.
The U.S. Constitution as defined in the principal decisions and opinions of the U.S. Supreme Court; the scope of individual rights and equal protection in relation to the powers of the national and state government. Every semester. *Prerequisite:* POSC 422 or permission of instructor.
- POSC 427 The American Presidency** 3 cr.
Analysis of the modern American presidency and the president's interaction with the bureaucracy and Congress in making foreign and domestic policy. Evolution of the president's role; executive office and White House staff; presidential power; personality; executive leadership and decision making. Variable. *Prerequisite:* POSC 110/112 or permission of instructor.
- POSC 431 Russian Politics** 3 cr.
The structure, functions and dynamics of the Russian political system since the collapse of the Soviet Union. Topics include economic policy, democratization, ethnic politics, and the role of Russia in international security, economic, and political fora. Fall. *Prerequisite:* POSC 113/114 or POSC 131 or permission of instructor; POSC 131 preferred.
- POSC 435 Model Organization of American States** 3 cr.
Detailed examination of the structure, functions, procedures, and issues associated with contemporary international organizations through preparation for and participation in the Model Organization of American States. Every year. Not open to students who have credit for former POSC 445. *Prerequisite:* POSC 341 and permission of instructor.
- POSC 441 Theory and Practice of International Relations** 3 cr.
Current theoretical approaches to the study of international relations; foreign policy analysis; designing approaches for international problem solving; international negotiation. Fall. *Prerequisites:* POSC 113/114 or POSC 131 or permission of the instructor.
- POSC 442 National Security Policy** 3 cr.
Historical evolution of U.S. National Security Policy since 1945. Social construction of the national interest within the policy-making process; defense policy; resource issues; and counterterrorism. Spring. *Prerequisite:* POSC 113/114 or POSC 131 or permission of instructor.
- POSC 443 Transnational Terrorism and Counterterrorism** 3 cr.
Sociological roots of religious terrorism; intellectual history and the evolution of the global Salafist movement; history of U.S. government efforts to counter global Salafist terrorism; development of counterterrorism policy recommendations. Variable. *Prerequisite:* POSC 113/114 or POSC 131 or permission of instructor.

POSC 450 Environmental Public Policy**3 cr.**

Development of the analytical tools required to understand and assess current environmental policy with the application of these tools to current environmental issues at the regional, national and international level. Variable. *Prerequisite:* POSC 110/112 or permission of instructor.

POSC 455 Public Program Evaluation**3 cr.**

Examination of current techniques in program evaluation. Emphasis will be placed on the policy cycle and the role that program evaluation does, can and should play in politics. Variable. *Prerequisite:* POSC 110/112 or permission of instructor.

POSC 462 Personality and Politics**3 cr.**

Politics from a psychological perspective. The phenomenon of political leadership; biographical study of political leaders; psychological and cultural factors in individual and mass political behavior. Variable. *Prerequisite:* POSC 110/112 or permission of instructor.

POSC 470 Seminar in Political Thought**3 cr.**

Development of political reasoning through careful consideration of the original works of political theorists, including such topics as the ideal political community and "natural right." Impact of these ideas on the development of the modern political ideologies of conservatism, liberalism, socialism and fascism. Variable. Students may re-enroll with permission of instructor, if topics are substantially different. *Prerequisite:* POSC 370 or permission of instructor.

POSC 471 American Political Thought**3 cr.**

Analysis of the fundamental political ideas underlying the American political experience and an exploration of how these ideas have been applied and developed over time and how they relate to current debates in American politics. Variable. Not open to students who have credit for former POSC 424. *Prerequisite:* POSC 110/112 or permission of instructor.

POSC 488 Comparative Legal Systems**3 cr.**

Examination of the structures of judicial systems within the developed and developing world; the role of the judiciary within the structure of government and the rule of law; issues relating to the power and legitimacy of the judiciary within common law, civil law, and Islamic law systems. Every other year. Not open to students who have credit for former POSC 434. *Prerequisite:* POSC 422 or permission of instructor.

POSC 489 Law and Society Capstone**1 cr.**

Preparation of a portfolio of student work demonstrating research and analytical skills acquired in the Law and Society program; development of written work combining basic ideas from previously conducted research papers; development of oral presentation skills. Every semester beginning Spring 2010. *Prerequisites:* at least 75 credits earned; at least five 300 and/or 400 level courses in the Law and Society program.

POSC 490 Capstone Seminar in Political Science**1 cr.**

Preparation of a portfolio of student work demonstrating research and analytical capabilities; development of written work synthesizing major points from previously conducted research; development of oral and visual presentation skills. Every semester. *Prerequisite:* Completion of at least 75 credits; five 300 or 400 POSC courses.

POSC 491 Seminar in Political Science**3 cr.**

Lectures, discussions, student reports, research techniques, criticism, interpretation. Individual research (senior thesis) on a common topic, with interim reports and final formal presentation of paper. Variable. May be repeated for credit if topics are substantially different. *Prerequisite:* written permission of instructor.

POSC 492 Internship Seminar**3 or 6 cr.**

Academic component of internship; requires co-registration in POSC 495. Full-time interns register for 6 credits 492 (and 9 cr. 495), part-time interns 3 credits 492 (and 6 cr. 495). Graded A through F; elective credit in POSC major. Every semester.

POSC 495 Internship in Political Science**6 or 9 cr.**

Experiential component of internship: guided work experience in conjunction with POSC 492; must directly relate to student's academic program. Full-time interns register for 9 credits 495 and 6 credits 492 and may not enroll in any other courses. Part-time interns must register for 6 credits 495 and 3 credits

492. Graded P/F; general elective credit - does not count toward POSC major. Every semester. *Prerequisites:* junior or senior standing, not on probation; departmental approval of internship before registering.

POSC 498 Readings in Political Science**1 to 6 cr.**

Directed readings in a specialized area or topic of political science. Topic ordinarily relates to an upper level political science course previously taken in that area. Regular conferences with instructor. Typically limited to seniors majoring political science with at least a 3.0 GPA in all political science courses. Repeatable to 6 credits. Every semester. *Prerequisite:* written permission of instructor and department chair.

Psychology**PSYC 150 General Psychology****3 cr.**

Introduction to the methodology, theories, and applications of the science of animal and human behavior. Every semester. *GEP Group D.*

PSYC 151 Honors: General Psychology**3 cr.**

Introduction to the scientific study of human and animal behavior. Basic research findings, methodology, and theoretical, social, and ethical issues. Oral presentations and written reports on outside readings in psychology required. Credit may not be earned for both PSYC 150 and PSYC 151. Fall. *Prerequisite:* acceptance into the University Honors Program or permission of instructor. *GEP Group D.*

PSYC 210 Child Development**3 cr.**

From conception through childhood, for understanding the early formative years. Every semester. *Prerequisite:* PSYC 150 or PSYC 151.

PSYC 212 Adolescence and Adulthood**3 cr.**

Introduction to psychological development, adolescence through maturity. Every semester. *Prerequisite:* PSYC 150 or PSYC 151.

PSYC 213 Psychology of Adjustment**3 cr.**

Explores the concept of psychological adjustment by relating it to students' everyday lives. Relevant psychological theory and research presented on a variety of topics including self-concept, values, person perception, interpersonal attraction, sexuality, problems in adjustment and psychotherapy. Variable. *Prerequisite:* PSYC 150 or PSYC 151.

PSYC 220 Psychology of Women**3 cr.**

Explores women's psychological development and experience. Covers sex roles and how society's attitudes about girls and women affect female self-concept, personality, relationships and work experience. Topics also include women of color, sexual harassment, violence against women and spirituality. Spring. *Prerequisite:* PSYC 150 or PSYC 151. *GEP Group F.*

PSYC 250 Death and Dying**3 cr.**

Examination of the individual's attitudes and reactions toward death and dying and one's own mortality. Social and psychological processes affecting attitudes and reactions are explored. Variable. *Prerequisite:* PSYC 150 or PSYC 151.

PSYC 270 Psychological Perspectives of Human Sexuality**3 cr.**

Describes psychological aspects of human sexual behavior and attitudes. Covers historical and current research techniques used to study sexuality; theories of sexual attraction, love and behavior; sexuality across the lifespan; physical and psychological aspects of sexual response; and variations in sexual attitudes, orientations and practices. Variable. *Prerequisites:* PSYC 150 or PSYC 151.

PSYC 290 Psychological Issues and Practices**1-4 cr.**

A special content area or group of issues selected by the Department and announced in the preceding semester. Admission competitive. See the department for the criteria. Three hrs. seminar format. Variable. *Prerequisites:* PSYC 150 or PSYC 151.

PSYC 297 Introduction to the Profession of Psychology**1 cr.**

Explanation of the profession of psychology. Examination of both career and graduate school opportunities available to psychology majors. Identification of opportunities available within the department and university. Detailed examination of what it means to be a psychology major at FSU. Participation in pre-major assessment. Graded P/F. Every semester. *Prerequisites:* PSYC

150/151 with a C or better and declared major in psychology, or permission of instructor.

PSYC 300 Research Methods I

4 cr.

Introduction to the scientific method as applied to behavioral data. Naturalistic observation, surveys, and correlational studies; statistical topics. Normally, 3 hrs. lecture and 2 hrs. lab. Should be taken as soon as possible after completing 150 or 151. Every semester. *Prerequisites:* PSYC 150/151 General Psychology with a C or better; ENGL 101 Freshman Composition with a C or better; MATH 209 Intro. to Probability and Statistics with a C or better; prior or concurrent enrollment PSYC 297; declaration of psychology as a major or minor; or permission of the Department Chair.

PSYC 301 Research Methods II

4 cr.

The nature of scientific method, explanation, and theory. Experimental and quasi-experimental design and statistical analysis. Five hrs. per week for lecture, demonstrations, and lab periods. Should be taken in the semester immediately following PSYC 300. Every semester. *Prerequisites:* PSYC 300 with a "C" or better and completion of PSYC 297 with a "P" grade.

PSYC 303 Psychology of Marriage

3 cr.

The psychological variables of the marriage relationship. Variable. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 305 Computer Applications in Psychology

3 cr.

Overview of current applications of computers in psychology. Programming skills are neither a prerequisite nor a goal of this course. Two hrs. lab and 2 hrs. lecture. Variable. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 306 Sensation and Perception

4 cr.

Psychological and physiological approaches to the study of how information from the senses is processed, organized, and interpreted. Applied to understanding art and everyday experience. Five hrs. lecture, demonstration, and labs. Spring and Intersession. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 307 Experimental Analysis of Behavior

4 cr.

Research on conditioning with infrahuman subjects. Application of conditioning techniques to the analysis of human behavior. Individual projects and labs required. Fall. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 311 Survey of Research Methods in Psychology

3 cr.

An overview of non-experimental and experimental research methods used in psychology. Focuses on the appreciation and interpretation of research reported in psychology literature. Normally 3 hrs. lecture. MAY NOT BE USED TO MEET THE RESEARCH METHODS REQUIREMENTS FOR A MAJOR IN PSYCHOLOGY. Spring. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 360 Industrial/Organizational Psychology

3 cr.

Explores how psychological theory, methods and research are used to help understand, predict and influence people's behavior in the work place. Considers personnel psychology, organizational psychology and consumer psychology. Variable. *Prerequisite:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 385 Group Processes

3 cr.

Study of group processes including power dynamics, curative factors, patterns of member interaction, leadership and stages of group development. Variable. *Prerequisite:* Sophomore standing.

PSYC 386 Drugs and Human Behavior

3 cr.

Research and theory concerning psychoactive drugs. Various drug classifications, their biological, psychological and social effects on the human organism and the environment, especially alcohol and other frequently abused drugs. Every semester. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 387 Addictions Treatment Delivery

3 cr.

Addresses the practice dimensions necessary for addiction counselors. Within each dimension, student introduced to the knowledge, skills and attitudes conducive to appropriate addiction service delivery. Variable. *Prerequisites:*

PSYC 150/151, one 3 credit helping relationships course recommended, or permission of instructor.

PSYC 388 Treatment Issues and Theory in Addictions

3 cr.

Practical application of research and theory of addiction counseling. Overview of treatment related issues, including assessment and diagnosis. Variable. *Prerequisites:* PSYC 386, one 3 credit helping relationships course recommended, or permission of instructor.

PSYC 389 Ethics for the Addiction Counselor

1 cr.

Addresses legal and ethical considerations for addiction counselors. Differences and similarities among addiction and other helping professionals discussed. Variable. *Prerequisites:* PSYC 150/151, one 3 credit helping relationships course recommended, or permission of instructor.

PSYC 404 Psychology of the Exceptional Child

3 cr.

Developmental and behavioral characteristics of exceptional children as they relate to inclusion, classroom management, federal laws and psychological treatment. Topics on exceptional children include: mental retardation, physical disabilities, giftedness, emotional problems and autism. Fall. *Prerequisites:* PSYC 210 or 212, or permission of instructor.

PSYC 408 Tests and Measurements

3 cr.

Psychological and educational tests, their validity, reliability, scale transformations, norms, and standardization. Administration, uses, and interpretation of various instruments of assessment. Fall. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 409 Human Learning and Cognition

3 cr.

An examination of human cognitive processes including human learning, memory and recall, attention processes, information processing, problem solving, thinking and reasoning, language acquisition and communication. Every semester. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 410 Introduction to Counseling

3 cr.

Practical and theoretical foundation for further study. The nature of helping relationships, conditions for counseling, stages in the counseling process, and the counselor as a professional helper. Role playing, audio and video tape experiences, and related skill-development exercises. Every semester and summer. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 414 Theories of Personality

3 cr.

General survey of the principal theories and research concerning the nature and development of personality. Fall. *Prerequisites:* PSYC 150/151; PSYC 210 or 212 ; or permission of instructor.

PSYC 417 Psychology of Abnormal Behavior

3 cr.

Historical perspectives and causal factors of abnormal behavior. A survey of the classification of symptoms and the theoretical formulations and treatment models developed to address these symptoms. Case studies are utilized extensively to meet course objectives. Spring and Intersession. *Prerequisites:* PSYC 150/151; PSYC 210 or 212 ; or permission of instructor.

PSYC 418 Social Psychology

3 cr.

Theories, methods and applications of social psychology. A survey of the social and interpersonal factors influencing an individual's behavior. Topics include attitudes, person perception, interpersonal relations, group dynamics, social roles and conformity. Spring. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 420 Physiological Psychology

3 cr.

Characteristics of the nervous and endocrine system and their relationship to human and animal behavior. Fall. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 430 Health Psychology

3 cr.

Psychological principles applied to the promotion and maintenance of health, the prevention and treatment of illness and changing public opinion about health related matters. Behavioral components of health risk factors and improvement of the health care system are addressed. Spring and Fall. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 440 Survey of Family Psych. & Intervention Issues 3 cr.
General survey of the principal theories and research about family interaction patterns and interventions with families. Includes systems approaches, family life cycle development, social forces affecting families, and mental health issues including substance abuse/dependency. Not intended to prepare students to provide family therapy. Summer or Intersession. *Prerequisites:* PSYC 210 or 212, at least 90 credits, or permission of instructor.

PSYC 444 The Male Experience 3 cr.
Examination from a gender-sensitive perspective of factors affecting the development of male behavior in American society. Emphasis on the contributions of psychology to understanding gender-related developments; contributions of other social sciences and biology are also incorporated. Topics include work, sports, male-female relations, friendship, minority experience, sexuality, power. Three hours lecture, discussion. Variable. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 450 Multicultural Counseling Issues 3 cr.
Introduction to the issues of gender, class, race, culture, sexual orientation, and physical ability, as these variables may influence their ability to be present and counsel individuals who are different from themselves. Students will examine between and within group differences in light of various social, cultural, historical, and political contexts. The goals of this course are to increase student awareness of self and others as cultural beings and gain knowledge about various cultural groups in the United States. Variable. *Prerequisite:* PSYC 150.

PSYC 470 Research Methods Applications 4 cr.
Application of univariate and multivariate research methods and statistical procedures to analyze data from research projects in psychology and related fields. Instruction in computer data analysis and professional presentation to prepare students for work and graduate study. Fall. *Lab required. Prerequisites:* PSYC 300, PSYC 301, or permission of instructor.

PSYC 481 History and Systems of Psychology 3 cr.
Historical foundations of the discipline of psychology. Survey of recent and current systems of theoretical ideas in psychology. Attention to the roots of the discipline in philosophy and science; consideration of the work of great psychologists and their associated systems. Spring. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor. *Capstone.*

PSYC 485 Behavioral Approaches to Human Problems 3 cr.
Therapeutic application of learning principles to problems in the behavior of children and adults: normal childhood development; education and habit disorders; depression, severely disordered behavior, anxiety; and sexual problems in adults. Behavioral assessment, behavior change programs, and evaluation of such programs. Individual research and projects required. Spring. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 489 Child and Adolescent Disorders 3 cr.
In-depth examination of child/adolescent emotional and behavioral disorders. Relevant theoretical perspectives, treatment and research are discussed. Fall. *Prerequisites:* PSYC 150/151, PSYC 210 or 212; at least 60 credits or permission of instructor. *Preference in registration given to Psychology majors.*

PSYC 490 Special Topics in Psychology 1-4 cr.
Either a practicum to develop psychological skill, or a content-oriented course to provide a critical appraisal of a selected topic, as announced. Does not duplicate any other course offered by the Department of Psychology. Four credits when 5 contact hrs. are required (such as 2 hrs. lab and 3 hrs. lecture). May be repeated for credit if the topics are substantially different. Variable. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 491 Seminar in Psychology 3 cr.
Oral reports on a selected theme topic presented and discussed by students in a group setting. Written reports may also be required. Attendance at all seminar meetings expected. May be repeated for credit if topics are substantially different. Variable. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.

PSYC 492 Internship Seminar 3 cr.
Academic component of internship; requires co-registration in PSYC 495. Full-time interns register for 3 credits of 492 (and 12 credits 495); part-time interns, 3 credits 492 (and 6-11 credits 495). Graded A-F. Every semester. *Prerequisites:* see PSYC 495. *Capstone Internship option.*

PSYC 495 Internship in Psychology 6 - 12 cr.
Experiential component of internship. Full-time interns register for 12 credits in 495 and 3 credits in 492 and may not enroll in other courses. Part-time interns register for 6-11 credits in 495 and 3 credits of 492. Graded P/F. Every semester. *Prerequisites:* senior standing; submission of Internship Agreement form to internship director prior to registering; departmental approval.

PSYC 497 Senior Seminar 3 cr.
An integrated senior-year experience that requires students to use their accumulated skills, knowledge, and ethical sensitivity to critically analyze a new and/or controversial issue in psychology. Integration of previous course material and reflections on one's own experiences in the field of psychology is expected. An integrative research paper is required. Participation in major assessment. Students can repeat this senior seminar more than once if topics are different. First priority given to students who need the course for graduation requirements. Second priority given to seniors. Students may count all senior seminar courses toward the major requirements. Every semester. *Prerequisites:* PSYC 150/151 and 3 additional credits in Psychology or permission of instructor. *Capstone.*

PSYC 498 Readings in Psychology 1-6 cr.
Directed reading on a specific topic designed for the individual student. Summaries of readings and conclusions as a formal written report to be filed with the department. Not to duplicate any other course offered by the department. May be repeated for credit if the topics are substantially different. Departmental approval (granted only under extraordinary circumstances) required to enroll for more than 3 credit hrs. per semester. Every semester. *Prerequisites:* PSYC 150/151 and a written proposal approved by the sponsoring faculty member and Department Chair.

PSYC 499 Psychology Projects 1-6 cr.
Directed research, practicum, or other individualized learning experience on a specific topic. Formal written report to be filed with the department. Projects primarily of readings are not acceptable (see PSYC 498), nor are projects conducted in a group setting (see PSYC 490 or 491); not to duplicate any other course offered by the department. May, on approval, be repeated for credit, if the projects are substantially different. Departmental approval (granted only under extraordinary circumstances) required to enroll for more than 3 credit hrs. per semester. Every semester. *Prerequisites:* PSYC 150/151 and a written proposal approved by the sponsoring faculty member and Department Chair. *Capstone Pre-Professional option.*

Recreation and Parks Management

CCBC students contact the coordinator for schedule of offerings.

RECR 100 Leisure and the Diverse American Culture 3 cr.
Examines diversity within American culture through the study of leisure and related influences on physical and mental wellness throughout the lifespan. Variable. *GEP Group F.*

RECR 201 Introduction to Recreation and Parks 3 cr.
Appreciation of recreational activities in our culture. History and philosophy of the recreation and park movement and the value of leisure in society today. Not open to students who have received credit for former PHEC 204. Every semester.

RECR 221 Introduction to Therapeutic Recreation 3 cr.
An overview of services, agencies, and programs designed to meet the developmental and recuperative recreational and leisure needs of disabled populations. Every semester.

RECR 321 Theories & Concepts in Therapeutic Recreation 3 cr.
Introduction to theories and concepts related to leisure, play development, therapeutic recreation service delivery models, organization and management of therapeutic recreation services. Every third semester beginning Fall 2004.

- RECR 330 Outdoor Education** 3 cr.
Development of outdoor education in the school program. Integration of academic disciplines; conservation of the environment. Every semester.
- RECR 342 Park and Facility Design** 3 cr.
Study of park and recreation areas including acquisition, design and operating policies. Every semester.
- RECR 380 Recreation Leadership** 3 cr.
Leadership techniques involved in recreation and park settings including leadership in small and large groups. Every semester.
- RECR 381 Facilitation Skills & Techniques in Recreation & Parks** 3 cr.
Development of facilitation skills including interpersonal skills and techniques to become an effective leader and manager in recreation and parks. Variable.
- RECR 382 Program Planning** 3 cr.
Planning principles used in the development of recreation programs and leisure experiences. Every semester.
- RECR 384 Special Event Management** 3 cr.
Basic elements of special event management including: human resource management and organization structure, the arts and entertainment industry, event planning, event marketing, box office and ticket management, contract negotiation, financial management for special events, liability issues and program evaluation. Field trips required. Spring.
- RECR 388 Research Methods in Recreation and Parks** 3 cr.
Methods of inquiry in the empirical study of recreation and parks. Nature of scientific inquiry, research designs, survey research, program evaluation, unobtrusive research and elementary quantitative analysis. Every semester.
- RECR 390 Outdoor Adventures** 3 cr.
Wilderness and survival activities. Hiking, backpacking, survival swimming, orienteering, fitness activities, outdoor first aid and emergency skill, physical and emotional challenges, preserving the outdoors. Self-inventory of physical history required. Variable.
- RECR 393 History and Philosophy of Outdoor Recreation** 3 cr.
Philosophical basis of the historical, ethical, moral, social, and aesthetic issues surrounding outdoor recreation. Spring.
- RECR 421 Program Design & Evaluation in Therapeutic Rec.** 3 cr.
Introduction to conducting and analyzing leisure counseling assessments, developing program proposals for activities and interventions, facilitating activities and developing evaluation systems for programs. Every third semester beginning Fall 2003.
- RECR 422 Principles & Practices in Therapeutic Recreation** 3 cr.
Introduction to individual intervention treatment plans which consist of assessment, intervention techniques, protocols for treatment plans, documenting and tracking progress of the treatment plan, leadership techniques, and evaluation of the effectiveness of the treatment plan. Every third semester beginning Spring 2004.
- RECR 440 Organization & Administration of Rec. & Parks** 3 cr.
Structure and conduct of public, private, and school recreation and parks programs, special state and federal support programs. Every semester.
- RECR 443 Current Issues & Legal Liability in Recreation & Parks** 3 cr.
Current issues and legal liability in the recreation and parks field. Normally taken prior to Internship in Recreation. Every semester. *Prerequisites:* 90 credits or permission of instructor.
- RECR 480 Field Experience in Recreation and Parks** 1-6 cr.
Special aspects of recreation and parks management. Sites of study may vary. Offered as needed. Repeatable up to a maximum of 6 credits. Every semester.
- RECR 490 Special Topics in Recreation & Parks** 1-6 cr.
Unique or distinctive study such as clinics, workshops or course work dealing with a current topic related to recreation and parks management. Arranged as needed. Repeatable for credit if topics are substantially different.
- RECR 491 Practicum and Professional Seminar** 3 cr.
Provides students with professional experiences in several different settings and prepares students for their internship experience. Provides employment search skills, interview techniques, and presentation skills necessary for a successful employment search. Every semester. *Prerequisite:* RECR 382 or permission of instructor.
- RECR 492 Internship Project**
Academic component of internship. Register concurrently with RECR 495. Every semester. *Prerequisites:* RECR 491, junior or senior status, completion of core courses in major or permission of the instructor. Capstone.
- RECR 495 Internship in Recreation** 9-12 cr.
Guided work experience directly related to student's academic program. Normally, students may not take additional course work and should register concurrently with RECR 492. Graded P/F. Not open to students who have received credit for former course, PHEC 495. Every semester. *Prerequisites:* junior or senior status, completion of core courses in major or permission of the instructor.
- RECR 497 Out of Class Requirements** 0 cr.
Students are required to attend one state, regional or national conference during their junior or senior year, and to have a current certification in CPR and first aid. Consult the Guide for Completion of Out-of-Class Requirements in Recreation. Graded NR/P. Every semester.
- RECR 499 Individual Study in Recreation & Parks** 1-6 cr.
Individual research performed under the supervision of a faculty member. Every semester. Repeatable for credit if topics are substantially different. Variable. *Prerequisite:* permission of the department chair. Capstone Pre-professional option.

Integrated Math/Science

- SCIE 320 Integrated Science** 4 cr.
Introduction to underlying principles and themes common to all scientific disciplines including biology, physics, chemistry, earth science and astronomy. Appropriate mathematical topics integrated into all aspects of course. Includes laboratory activities, field experiences and computer exercises; exploration of current software, multi-media, instrumentation and telecommunication; application of technology to science emphasized. Three 2 hr. lecture/lab/discussion. Variable. *Prerequisites:* BIOL 149, MATH 207 and PHSC 203 or permission of instructor.
- SCIE 321 Integrated Science/Mathematics** 3 cr.
Continuation of Integrated Science with emphasis on mathematical modeling. Application of technology to science and mathematics emphasized. Collaboration with students at sister institutions using electronic media encouraged. Two 2-hr. lecture/lab/discussion. Variable. *Prerequisite:* SCIE 320 or permission of instructor.
- SCIE 335 Oceanography** 3 cr.
Basic principles of oceanographic science and discussion of the role of oceans in global environmental systems. Spring, even-numbered years. Also offered as GEOG 335. *Prerequisites:* GEOG 103, BIOL 149 and completion of a college-level mathematics course.
- SCIE 400 Issues in Context: From Specialist to Generalist** 3 cr.
Interdisciplinary capstone research seminar led by a team of science, mathematics and education faculty. Students work cooperatively on extended project dealing with a complex societal problem of scientific and technological import. Upon conclusion of study, a policy recommendation will be written and delivered in public form. Active engagement in project design, implementation, analysis and reporting. Variable. *Prerequisites:* two lab science courses including PHSC 203; MATH 207; and junior standing; or permission of instructor.

Social Science

SOSC 350 Honors Seminar: Values and Social Change 3 cr.
The impact of social change on behavior in various cultures, providing a perspective on social change in the United States. *Prerequisites:* acceptance into Honors Program; permission of instructor.

SOSC 490 Topics in Social Science 3 cr.
Interdisciplinary study of a special topic in the social sciences. Fall. *Prerequisites:* completion of introductory courses and progress on concentration plus written permission of social science coordinator. Capstone.

Social Work

SOWK 305 Racial and Cultural Minorities 3 cr.
Analysis of minority-majority group situations, their causes and consequences. Minorities in the United States. Also offered as SOCI 305. Every semester. Not open to students who have credit for former SOCI/SOWK 220, SOCI 320. *Prerequisite:* SOCI 100 or 111. GEP Group F.

SOWK 306 The Sociology of African Americans 3 cr.
A critical study of the organization of African-American society, its development, the endogenous structures and social processes that compose and define it, and its relationship to and interaction with the people and social forces external to it. Variable. Also offered as SOCI 306. *Prerequisite:* SOCI 100 or 111.

SOWK 310 Statistics for Social Science 3 cr.
Study of social scientific applications of univariate, bivariate, and multivariate statistical techniques with emphasis on their logic, interpretation, and application. Three hours lecture, one hour lab. Every semester. Also offered as SOCI 310. *Prerequisite:* Completion of GEP math requirement.

SOWK 311 Basic Research Methods 3 cr.
Techniques of research design: testing of hypotheses, sampling, data collection, measurement, and elementary statistical analysis. Research project required. Every semester. *Prerequisite or corequisite:* SOCI 310 or SOWK 310. *Prerequisite:* three courses in social work or permission of the department.

SOWK 364 Marriage and Family Relationships 3 cr.
Courtship, marriage, and family relationships. Current family patterns and the feasibility of the various alternatives to marriage. Every semester. *Prerequisite:* SOCI 100 or 111. Also offered as SOCI 364.

SOWK 370 Introduction to Social Welfare and Social Work 3 cr.
Introduction to social welfare and social work, including philosophy, history, and methods. The more significant aspects of social welfare ideology and the impact of established programs on meeting human need. Every semester. *Prerequisite:* SOCI 100 or 111, sophomore standing, or permission of the department.

SOWK 371 Social Policy 3 cr.
Analysis of contemporary social welfare programs, services, policies, and issues. Social welfare systems and their relation to other institutions in society. Every semester. *Prerequisites:* SOWK 370, POSC 110 or POSC 112, SOCI 200 (may be taken as a corequisite), or permission of the department.

SOWK 374 Child Welfare Social Services 3 cr.
The concept of child welfare, its historical perspective, changing nature, and contemporary policies, programs, and services. Variable. *Prerequisite:* SOWK 370 or permission of the Department.

SOWK 375 Human Behavior and the Social Environment I 3 cr.
Analysis of the interrelationships of culture, society, and the development and behavior of the individual. Focus on life span development from prenatal to death. Every semester. *Prerequisites:* SOCI 100 or SOCI 111. *Prerequisite or corequisite:* PSYC 150 or PSYC 151, BIOL 109 or Health Science Administration major.

SOWK 377 Human Behavior and the Social Environment II 3 cr.
Examines the development of individual and group behavior from an ecological systems perspective. The course fosters an understanding of the total person by integrating knowledge gained in other liberal arts courses. Every semester. *Prerequisites or corequisites:* SOWK 305, SOWK 371, and SOWK 375.

SOWK 379 Foundations for Generalist Practice 3 cr.
Basic procedures in social work: verbal and nonverbal communication, listening, observing, developing relationships, interviewing, and recording. Every semester. *Prerequisite:* SOWK 370 or permission of the Department.

SOWK 468 Sociology of Later Life 3 cr.
The dimensions of aging, including the aging process, the implications of increasing life expectancy, and societal reactions to the aged. Variable. *Prerequisite:* SOCI 100 or SOCI 111. Also offered as SOCI 468.

SOWK 470 Generalist Practice with Individuals & Families 3 cr.
Beginning theories and techniques of social work intervention within social systems utilizing an eclectic, ecological, problem-solving approach. Every semester. *Prerequisites:* SOWK 377 and 379 or permission of the Department. Enrollment limited to Social Work majors.

SOWK 471 Generalist Practice with Communities & Organizations 3 cr.
Advanced theories and techniques of social work intervention within social systems utilizing an eclectic, ecological, problem-solving approach. Every semester. *Prerequisites:* SOWK 377 and SOWK 379. *Prerequisites or corequisites:* SOWK 470 and SOWK 473. Enrollment limited to Social Work majors.

SOWK 473 Generalist Practice with Groups 3 cr.
Study of interpersonal dynamics that occur in a broad range of groups including support groups, psychoeducational groups, interdisciplinary teams, committees, and social action groups. The course emphasizes the development of core practice skills to facilitate the functional work of such groups. *Prerequisite:* SOWK 377 and SOWK 379. *Prerequisite or corequisite:* SOWK 470. Enrollment limited to Social Work majors.

SOWK 490 Special Topics in Social Work 1-3 cr.
Either a practicum to develop social work skills, or a content-oriented seminar to explore a topic of relevance to the Social Work profession. Does not duplicate any other course offered by the Department. Topics rotate each time the course is offered. Students may suggest topics and projects to the Department Chair. Variable. May be repeated for credit if topics are substantially different. *Prerequisite:* SOWK 370 and permission of the instructor.

SOWK 492 Social Work Seminar 3 cr.
Professional capstone course to integrate classroom and field experience. Required co-registration in SOWK 495. Graded A-F. Every semester. Enrollment limited to Social Work majors. *Prerequisites:* SOWK 471, senior standing, and completion of all prerequisite major and GEP course work. Capstone.

SOWK 495 Internship in Social Work 12 cr.
Required, integral part of Social Work major. Provides semester of full-time, generalist social service activity and social work intervention. Required co-registration in SOWK 492. Graded P/F. Every semester. Enrollment limited to Social Work majors. *Prerequisites:* SOWK 471; senior status; 2.3 GPA in major and overall; completion of all prerequisite major and GEP course work; attendance at orientation meeting in semester prior to internship; submission of internship application at the beginning of the semester preceding internship which includes resume. Fieldwork coordinator must approve all internships.

SOWK 498 Readings in Social Work 1-3 cr.
Directed reading on a specific topic designed for the individual student. Summaries of readings and conclusions constitute a formal written report to be filed with the Department. Not to duplicate any other course offered by the Department. Open to any Junior or Senior Social Work major who submits a proposal to the Department. Every semester. May be repeated for credit if topics are substantially different. *Prerequisite:* permission of instructor and Department Chair. Submit the proposal form (endorsed by the instructor) to the Department Chair prior to registering for the course and before the beginning of the semester.

SOWK 499 Individual Problems in Social Work 1-3 cr.
Special research project open to any Junior or Senior Social Work major who submits a proposal prior to the semester of the project to the faculty instructor. Must result in a written analysis of research findings. Every semester. May be repeated for credit if topics are substantially different. *Prerequisite:* permission of instructor and Department Chair.

Sociology

SOCI 100 Introduction to Sociology

3 cr.

Systematic introduction to the study of society. Basic concepts, methods of study, and theories about societal structures and processes. Every semester. Not open to students who have credit for former SOCI 201. *GEP Group D.*

SOCI 111 Honors: Introduction to Sociology

3 cr.

Basic sociological analysis through simulations, selected readings, discussions, and special topics projects. Four hrs. lecture and lab projects. Credit may not be earned for both SOCI 100 and SOCI 111. Every semester. Not open to students who have credit for former SOCI 211. *GEP Group D.*

SOCI 200 Social Problems

3 cr.

Description and analysis of conditions that societies define and treat as social problems. Analysis of selected problems. Every semester. Not open to students who have credit for former SOCI 301. *Prerequisite: SOCI 100 or SOCI 111.*

SOCI 203 Sociology of Deviant Behavior

3 cr.

Analysis of various forms of deviance in contemporary society, its functions and dysfunctions, and society's response. Every semester. Not open to students who have credit for former SOCI 303. *Prerequisite: SOCI 100 or SOCI 111.*

SOCI 224 Cultural Anthropology

3 cr.

Survey of the study of human behavior in simpler tribal and peasant societies as well as in complex civilizations. Emphasis on social change. Fall. Not open to students who have credit for former SOCI 324. *(GEP Group F)*

SOCI 305 Racial and Cultural Minorities

3 cr.

Analysis of minority-majority group situations, their causes and consequences. Minorities in the United States. Every semester. Not open to students who have credit for former SOCI 220 or 320. *Prerequisite: SOCI 100 or SOCI 111.* Also offered as SOWK 305. *GEP Group F.*

SOCI 306 The Sociology of African Americans

3 cr.

A critical study of the organization of African-American society, its development, the endogenous structures and social processes that compose and define it, and its relationship to and interaction with the people and social forces external to it. Variable. Also offered as SOWK 306. *Prerequisite: SOCI 100 or 111.*

SOCI 310 Statistics for Social Science

3 cr.

Study of social scientific applications of univariate, bivariate, and multivariate statistical techniques with emphasis on their logic, interpretation, and application. Three hours lecture, one hour lab. Every semester. *Prerequisite: completion of GEP math requirement.* Also offered as SOWK 310.

SOCI 311 Basic Research Methods

3 cr.

Techniques of research design: testing of hypotheses, sampling, data collection, measurement, and elementary statistical analysis. Every semester. *Prerequisite or corequisite: SOCI/SOWK 310. Prerequisite: three courses in sociology or permission of instructor.*

SOCI 312 Applied Social Research

3 cr.

Collection and analysis of data to study applied social research problems. Research project, or participation in current research projects, required. Variable. *Prerequisite: SOCI/SOWK 310 and SOCI/SOWK 311, or permission of instructor.*

SOCI 322 Social Demography

3 cr.

A study of the measurement, analysis and explanation of population size, distribution, composition, changes and problems. Variable. *Prerequisite: SOCI 100 or SOCI 111.*

SOCI 325 Community Analysis

3 cr.

A critical appraisal of community research, including comparisons of folk, rural, urban, and suburban studies; analysis of local institutional patterns; and specific community factors such as stratification, power, and collective actions. Variable. *Prerequisite: SOCI 100 or SOCI 111.*

SOCI 326 Sociology of Rural Life

3 cr.

Characteristics of rural population, social structure, and institutional arrangements and changes. Variable. *Prerequisite: SOCI 100 or SOCI 111.*

SOCI 328 Sociology of Urban Life

3 cr.

A study of the city, its role in history, the problems of today, and prospects for the future. Emphasis on urbanism as a way of life. Variable. *Prerequisite: SOCI 100 or SOCI 111.*

SOCI 332 Collective Behavior

3 cr.

Analysis of relatively episodic, unstructured, and unconventional forms of social behavior and their consequences. Variable. *Prerequisite: SOCI 100 or SOCI 111.*

SOCI 334 Gender and Social Life

3 cr.

The social construction of gender and gender-based inequalities. Focus on contemporary American society but other cultures included. Variable.

SOCI 340 Criminology

3 cr.

The social causes and consequences of criminal behavior. Criminal law, the police, courts, and correctional institutions. Every semester. *Prerequisite: SOCI 200 or SOCI 203.*

SOCI 350 Folklore in Appalachia

3 cr.

The study of human creativity and tradition as a reflection of Appalachian culture, community, and place. Approach is expansive, providing students opportunity to study, document, and value their own cultural traditions and heritage. Variable. *Prerequisite: Sophomore standing.*

SOCI 362 Sociology of Religion

3 cr.

A comparative study of the social organization and development of religious groups. The interrelations between religion and other facets of society and social behavior. Spring. *Prerequisite: SOCI 100 or SOCI 111.*

SOCI 364 Marriage and Family Relationships

3 cr.

Courtship, marriage, and family relationships. Current family patterns and the feasibility of the various alternatives to marriage. Every semester. *Prerequisite: SOCI 100 or SOCI 111.* Also offered as SOWK 364.

SOCI 366 Social Inequality

3 cr.

The theory of stratification or inequality in society; relevant social policy. Emphasis on American society and current social programs addressing inequality. Variable. *Prerequisite: SOCI 100 or SOCI 111.*

SOCI 367 Sociology of Medicine

3 cr.

Organizations, personnel, issues, and problems in medical care. Social influences on health and illness. Variable. Not open to students who have credit for former SOCI 467. *Prerequisite: SOCI 100 or SOCI 111.*

SOCI 436 Sociological Aspects of Mass Communication

3 cr.

The social development of the mass media, societal influences upon them, and their effects upon society. Variable. *Prerequisite: 9 hrs. of sociology or permission of instructor.*

SOCI 442 Juvenile Delinquency

3 cr.

The social causes and consequences of juvenile delinquency. Juvenile law, the police, courts, and correctional institutions. Every semester. *Prerequisite: SOCI 340 or POSC 324 or permission of instructor.*

SOCI 443 The American Correctional System

3 cr.

The philosophies of punishment and corrections. Analysis of programs and their effectiveness for punishment and rehabilitation of convicted criminals. Every semester. *Prerequisite: SOCI 340 or POSC 324 or permission of instructor.*

SOCI 450 Classical Sociological Theory

3 cr.

Survey of sociological thought since Comte and its relevance to modern sociology. Construction of theory by students themselves. Fall. *Prerequisite: 21 hrs. in Sociology or permission of instructor.*

SOCI 451 Contemporary Sociological Theory

3 cr.

Survey of contemporary sociological thought since the mid-20th century and its relevance to modern sociology. Construction of theory by students themselves. Spring. *Prerequisite: SOCI 450; 21 hrs. of Sociology or permission of instructor.*

SOCI 466 Women, Health and Healing

3 cr.

A feminist examination and analysis of women's experiences with health and illness, including women's roles in health care systems as patients and care providers. Variable. Not open to students who have credit for former

SOCI 368. *Prerequisite: SOCI 100 or SOCI 111 and junior or senior standing or permission of instructor.*

SOCI 468 Sociology of Later Life 3 cr.
The dimensions of aging, including the aging process, the implications of increasing life expectancy, and societal reactions to the aged. Variable. *Prerequisite: SOCI 100 or SOCI 111.* Also offered as SOWK 468.

SOCI 491 Seminar in Sociology 3 cr.
Advanced studies in selected topics. Individual study and research for class reports. Formal paper required. Variable. May be repeated for credit if topics are substantially different (department chair's permission required). *Prerequisite: permission of instructor. Capstone.*

SOCI 492 Internship Seminar/Research Paper 3 cr.
Academic component of internship. Required co-registration in 495. Graded A-F. Every semester. *Capstone.*

SOCI 495 Internship in Sociology 6 or 12 cr.
Experiential component of internship; guided work experience in conjunction with 492; must directly relate to academic program. Full-time interns register for 12 credits in 495 and 3 credits in 492 and may not enroll in other courses. Part-time interns register for 6 credits in 495 and 3 credits in 492. Graded P/F. Every semester. *Prerequisites: Junior or senior status; 18 hours in sociology; 2.0 GPA in major and overall; attendance at orientation meeting in semester prior to internship; submission of internship application by fifth week of semester prior to internship; application includes (1) resumé, (2) proposal, (3) letter of acceptance from proposed agency.*

SOCI 498 Readings in Sociology 1-3 cr.
Open to any upper-level student who submits a proposal, prior to the semester of study, to the professor who will supervise the work. Department Chair's written approval of the proposal is required. Formal report of study is required and filed. Every semester. May be repeated for credit if topics are substantially different (department chair's permission required). *Prerequisite: permission of instructor.*

SOCI 499 Individual Problems in Sociology 1-3 cr.
Special research project open to any upper-level student who submits a proposal, prior to the semester of the project, to the professor who will supervise the project. Department Chair's written approval of the project is required. Formal report of the study is required and filed. Every semester. May be repeated for credit if topics are substantially different (department chair's permission required). *Prerequisite: permission of instructor.*

Theatre

You may not receive credit for both a THEA course and the same course formerly labelled CMAT, unless the course is listed as repeatable.

THEA 104 Theatre 1/2 to 1 cr.
Practical application of principles of acting, directing, or technical aspects, open to all students. Minimum 45 clock hours. Repeatable; 3 credits applicable to major. Every semester.

THEA 106 Introduction to Theatre 3 cr.
Basic elements of theatre; play, playwright, performer, director, audience, designer, and technicians. Survey of theatrical forms from ancient times to the present. Practical experience with University Theatre productions working in design shops or back stage. Every semester. *GEP Group A.*

THEA 107 Introduction to Theatrical Vision 3 cr.
A general study of design for the theatre aimed at an understanding and facility in visual thinking, visual communication, and visual evaluation. Covers general design terminology, basic design research, basic design skills, and introduction to theatre styles and conventions. Two 75-minute lectures and one 75-minute lab. Every semester. *GEP Group A.*

THEA 110 Introduction to Acting 3 cr.
Introductory preparation for acting through developmental exercises. Every semester.

THEA 204 Stagecraft 3 cr.
Advanced study and practice in constructing, handling, rigging, and shifting scenery and properties. Attention given to techniques with metals and plastics. Fundamentals of drafting techniques for theatrical application including CAD. Work on department productions required. Three hour lecture/demonstration. Spring.

THEA 206 Modern American Drama 3 cr.
An introductory survey of representative American plays and playwrights of the 20th century with attention to the evolution of Modern American Theatre and analysis of the efforts of the playwright and theatrical professionals. Also offered as ENGL 206. Spring. *Prerequisites: THEA 106 and ENGL 101/111.*

THEA 208 Acting: Basic Principles and Application 3 cr.
An introduction to and exploration of the basic principles of various modern acting methods through lecture, exercises and the practical application of these methods. Every semester. *Prerequisite: THEA 110 or permission of instructor.*

THEA 210 Voice and Movement 3 cr.
Introduction to voice and movement for the stage. Development of vocal and physical awareness and expression through fundamental exercises for voice and body and study of the anatomy and physiology of vocal production. Variable. *Prerequisite: THEA 208 or permission of instructor.*

THEA 305 Scene Design 3 cr.
Techniques of scene design; scenic styles and forms; esthetic principles including ground plan, front and rear elevation, rendering, and building of models. Fall. *Prerequisite: THEA 107 or permission of instructor. Recommended: THEA 204.*

THEA 306 Stage Lighting 3 cr.
Lighting as artistic design: theory and practice, types of equipment, use and deployment, and innovations. Spring. Not open to students who have credit for former CMAT 306. *Prerequisite: THEA 107 or permission of instructor. Recommended: THEA 204.*

THEA 307 Costume Design 3 cr.
Studio course in design of costumes for theatre; visual interpretation of plays through character. History of dress; fashion effects; styles, fabric, draping, costume constructions. Spring. *Prerequisite: THEA 107 or permission of instructor.*

THEA 308 Directing 3 cr.
Basic techniques for directing with practice in interpretation and staging of plays from the modern era. Every semester. *Prerequisite: THEA 106, 107, 206.*

THEA 310 Voice and Speech 3 cr.
Development of voice and speech aimed at producing effortless, spontaneous, healthy, and clear speech for performance. Exploration of organs of speech and speech phonemes through study and application of the International Phonetic Alphabet. Variable. *Prerequisite: THEA 210 or permission of instructor.*

THEA 315 Creative Dramatics 3 cr.
Creative dramatic activity for learning and self-development of the child. Laboratory experience in supervising creative dramatic activity. Variable. *Prerequisite: permission of instructor.*

THEA 318 Acting: Analysis and Performance 3 cr.
A further exploration through lecture, exercises and scene work of various modern acting techniques with an emphasis on character development, script analysis and scene study. Spring. *Prerequisite: THEA 208 or equivalent.*

THEA 319 Acting Shakespeare 3 cr.
Acting Shakespeare through selected monologues, text analysis, scansion, rhetorical structure, imagery and investigation of language, stylistic demands and verse. Fall. *Prerequisite: THEA 318 or equivalent.*

THEA 325 Advanced Directing 3 cr.
Directing period and modern plays of various genres in a variety of styles. Spring, odd-numbered years. *Prerequisite: THEA 308, 425 and permission of instructor.*

- THEA 340 Theatre Management** 3 cr.
Business management of theatre organization; budget and finances, play leasing and promotion, box office. Spring. *Prerequisite: permission of instructor.*
- THEA 350 Playwriting** 3 cr.
Study of the basic elements of an practice in writing for the theatre. Action, conflict, character and dialogue will be explored through building-block exercises which culminate in the writing of a one-act play. Fall, odd-numbered years. Repeatable to 6 credits. *Prerequisites: ENGL 101/111, THEA 206 and permission of instructor.*
- THEA 400 Theatre Production** 3 cr.
Practical application of the principles of theatre production on the advanced level, involving participation in actual production, classes, and workshops of university-affiliated professional theatre. May be repeated. Variable. *Prerequisite: permission of department. Production Capstone.*
- THEA 407 Topics in Production Techniques** 2 or 3 crs.
Detailed techniques concerning a particular production subject announced in advance. Lecture and practical laboratory. Repeatable on a different topic. Variable. *Prerequisite: permission of instructor.*
- THEA 410 Dialects** 3 cr.
Intensive exploration of foreign and American dialects for performance. Awareness of cultural, physical, and vocal rhythms of dialect. Variable. *Prerequisite: THEA 310. Recommended: THEA 210.*
- THEA 420 Marketing Yourself as an Actor** 3 cr.
An introduction to the business of acting and instruction in specific methods and strategies that the actor can implement to advance his/her career. Fall. *Prerequisites: THEA 318. Acting capstone.*
- THEA 425 History of the Theatre I** 3 cr.
Study of the cultural background of the theatre and the historical development of dramatic art from its beginnings to the Elizabethan period. Fall, odd-numbered years. *Prerequisite: THEA 106.*
- THEA 426 History of the Theatre II** 3 cr.
Study of the cultural background of the theatre and the historical development of dramatic art from the English Renaissance to modern times. Spring, even-numbered years. *Prerequisite: THEA 106.*
- THEA 427 History of the Theatre III** 3 cr.
Study of the cultural background of theatre and the development of dramatic art in the modern era (1850 A.D. to the present). Fall, even-numbered years. *Prerequisite: THEA 106. General theatre capstone.*
- THEA 428 Women Through Theatre** 3 cr.
Seminar providing an historical survey of women's participation in theatre, examination of images of women in dramatic literature, and exploration of the contemporary world of women in theatre and related fields. Spring, odd-numbered years.
- THEA 431 World Drama I: Premodern** 3 cr.
World Drama from the 5th century B.C. Greeks to the late 19th century. Representative dramatists and forms from both the West and the East. Multicultural emphasis on the use and development of drama. Fall, even-numbered years. *Prerequisite: ENGL 150/250 or THEA 106 or permission of instructor. Also offered as ENGL 431.*
- THEA 432 World Drama II: Twentieth Century** 3 cr.
World Drama during the twentieth century. Representative dramatists and forms from both the West and the East. Multicultural emphasis on the variety of dramatic forms. Alternate years. *Prerequisite: ENGL 150/250 or THEA 106 or permission of instructor. Also offered as ENGL 432.*
- THEA 450 Experiments in Scripting and Staging** 3 cr.
Creating scripts from existing sources, both narrative and non-narrative, with emphasis on traditionally non-dramatic/non-theatrical material. Staging experimental performances of the scripts. Spring, even-numbered years. *Credit cannot be earned for both THEA 309 and THEA 450. Prerequisites: THEA 308 and 325 or permission of the instructor. Directing Capstone.*
- THEA 465 Projects in Theatrical Design** 3 cr.
Advanced design projects in scenery, lighting, or costumes. Emphasis on musical forms: opera, dance, and musical theatre. Weekly presentations. Repeatable to a maximum of 9 hrs. Variable. *Prerequisite: THEA 305, 306, or 307, and written permission of the instructor. Production Capstone.*
- THEA 466 Projects in Directing** 1-3 cr.
Direction of a play for public performance through the FSU University Theatre Program. For advanced students, who must submit a formal proposal at least 6 months in advance. Project approval by departmental committee also is required. Repeatable for a maximum of 6 credits. Every semester. *Prerequisites: THEA 107, 206, 308 and 325 and/or 450.*
- THEA 489 Special Topics in Acting** 3 cr.
Study and performance of scenes from important nonrealistic forms of drama—premodern, contemporary, or experimental. Three hrs. lecture, 1 hr. lab. Variable. *Prerequisite: permission of instructor.*
- THEA 490 Special Topics in Theatre Arts** 3 cr.
Research or applied experience on an announced selected topic. Variable. *Prerequisite: permission of instructor.*
- THEA 492 Internship Project** 3 cr.
Academic component of internship experience, in conjunction with THEA 495. Graded A through F. Variable. *Corequisite: THEA 495.*
- THEA 493 Field Work in Theatre Practice** 1 to 3 crs.
Participation in production and/or management in an approved theatre or in an organization in a related communication field. Participants in a university-affiliated professional theatre may be eligible. May be repeated. Variable. *Prerequisite: permission of department.*
- THEA 495 Internship in Theatre** 6 or 12 crs.
Experiential component of internship: guided work experience directly related to student's academic program. Full-time interns register for 12 credits in 495, 3 credits in 492, and may not enroll in any other courses. Part-time interns must register for 6 credits in 495 and 3 credits in 492. Graded P/F. Variable. *Prerequisites: Junior/senior status, not on probation; declared major in theatre, minimum 12 cr., and 2.5 GPA in major; Internship Agreement Form approved by department before registering.*
- THEA 499 Directed Study** 1 to 6 crs.
Intensive study through faculty-directed projects or papers. Hours arranged. Variable. *Prerequisite: permission of Department Chair.*

Women's Studies

For descriptions of other Women's Studies courses, refer to the description of the Women's Studies minor and appropriate departmental course listings.

- WMST 201 Introduction to Women's Studies** 3 cr
A multicultural and multidisciplinary survey of the traditional assumptions about women. Students will gain an understanding of the intersection of gender with race, class, ethnicity, religion, and sexual orientation, and issues of ability/disability. Fall. GEP Group F.
- WMST 491 Seminar in Women's Studies** 3 cr.
A synthesizing experience on selected topics in Women's Studies. Variable. *Prerequisite: WMST 201 or permission of instructor.*
- WMST 494 Practicum in Women's Studies** 1-6 cr.
A Women's Studies related work experience at an approved site. A formal written report must be filed with the Women's Studies faculty supervisor. Variable. Graded P/F. *Prerequisites: WMST 201, and two Women's Studies electives, and permission of program coordinator.*
- WMST 499 Independent Study** 1-3 cr.
Directed research, practicum or other individualized learning experience on a specific topic in Women's Studies. Formal written report to be filed with the Women's Studies faculty supervisor. Variable. *Prerequisites: WMST 201 and permission of program coordinator.*

Personnel Register

Personnel information current as of 5/1/07.

Administration

OFFICE OF THE PRESIDENT

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LEE ANN NIGHTINGALE, Coordinator of Benefits. B.S., Frostburg State University.

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JAMES B. KING, Occupational Safety Officer.

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ANN TOWNSELL, Graphic Designer. B.S., Frostburg State University.

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UNIVERSITY ADVANCEMENT

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JEFFREY P. KRONE, Development Specialist.

SHANNON L. GRIBBLE, Director of Alumni Programs. B.S., Frostburg State University.

STUDENT AND EDUCATIONAL SERVICES

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Policies

Credit-by-Exam and Other Non-traditional Learning

Following is a list of the types of examinations and other non-traditional learning experiences that Frostburg State University will accept for credit towards a degree. Students will receive elective or required credit depending on the content of the test or other experience evaluated. As of April 2007, the programs listed here are the only forms of non-traditional credit accepted. Participants should consult the Admissions Office (301/687-4201) or the Assistant Provost (301/687-4212) for the most up-to-date information.

Source	Score or Transcript Required
Advanced Placement Program (CEEB)	3 or higher
CLEP	Minimum score varies by subject area with no score lower than 50 accepted
International Baccalaureate	4 or higher on each standard/subsidiary or higher level exam
College Courses at High School	If credit is recorded on a college transcript
Departmental Exams from Other Colleges	If credit is recorded on a college transcript
Military Credit	If equivalent to courses in FSU's curriculum
Portfolio Credit from Other Colleges	If credit is recorded on a college transcript
FSU Special Departmental Exams	See following list of tests currently available

Credit-By-Exam Policies

In addition to earning credit at FSU or transferring course credit from other accredited institutions, you may acquire up to 30 credits through examination. The examinations accepted include: Advanced Placement Examinations; College Level Examination Program (CLEP); International Baccalaureate exams; and special departmental examinations.

Recording of Credits

The grade AP, CL, IB, or CE (depending on the test) will appear on your transcript to indicate that the credits were earned by examination. Credit may be earned within your major as well as in general college and elective courses. Credit by exam will not be used in computing your cumulative grade point average.

General Limitations

1. To earn credit by examination, you must be currently enrolled at Frostburg State University as a full-time or part-time student.
2. An examination cannot be used to remove a failure in a course completed at Frostburg or elsewhere.
3. An examination cannot be used to remove a low grade earned in a course completed at Frostburg or elsewhere.
4. An examination may not be repeated or retaken in order to earn a higher score.

5. Students currently registered for an equivalent course are ineligible to receive credit-by-examination. If you believe you may qualify for credit-by-exam, you should take the examination prior to enrollment in the course. You cannot receive credit-by-exam and credit through course completion for the same course.
6. If you achieve a satisfactory score, academic credit will be recorded on your permanent record when you pay the credit charge.

Advanced Placement Examinations

Advanced Placement Examinations are available through the College Entrance Examination Board of the Educational Testing Service, Princeton, New Jersey 08540; www.collegeboard.org/ap.

You may receive credit by examination for grades of 3, 4 or 5 on the College Board Advanced Placement Examinations.

Procedures

1. Make arrangements to take the Advanced Placement Examination at the appropriate time. Pay the examination fee to the appropriate agency.
2. Your official score must be sent directly by the testing agency to the Assistant Provost. After you enroll at the University, you must request that your score be evaluated, and, if the score is high enough for credit to be given, reported to the Registrar's Office.

3. The credit will be recorded on your transcript without charge.

College Level Examination Program (CLEP)

CLEP is administered by the College Entrance Examination Board also. See the address in the Advanced Placement section, or consult <http://www.collegeboard.org/clep>.

The examinations consist of college-level general and subject examinations designed to measure knowledge acquired through means other than college course work.

The examinations stress understanding, the ability to perceive relationships, and a grasp of basic principles and concepts. General examinations are designed to measure general learning, often referred to as general education. Subject examinations are designed to measure achievement in the area of a specific course or subject.

Procedures

Procedures are identical with those noted above for the Advanced Placement Examinations.

International Baccalaureate Programme

The International Baccalaureate Programme (IB) is a rigorous two-year curriculum offered in select secondary schools throughout the world. In order to receive college credit for IB, you must sit for the examination in each subject of study and ask IB to send an official transcript to FSU's Assistant Provost. Contact IB North America and the Caribbean, 200 Madison Ave., Suite 2007, New York, NY 10016; <http://www.ibo.org/>

Special Departmental Examinations

After paying a \$25 testing fee for each departmental exam, you may take a special examination in place of any course for which credit by examination has been established. If you pass the examination, the course will be waived, and you may receive credit for it by paying an additional processing fee. The department determines passing standards, as well as eligibility standards, if applicable. Students currently or formerly enrolled in a course are ineligible to take a special departmental exam to exempt from the same course.

Procedures

1. Request permission from the Department Chair to be evaluated for credit in a particular course.
2. Pay a \$25 administrative testing fee at the University & Student Billing Office.
3. The Department Chair assigns an appropriate faculty member to evaluate you. In some cases, the department offers the exam on a regularly scheduled basis. See the list that follows.
4. The faculty member evaluates your work according to quantitative and qualitative standards previously established by the department — for example, by an oral or written examination or by performance.
5. If the faculty member's evaluation reveals that

your achievement is equal or superior to that of a student passing the course in a traditional way, the department will report the grade of CE to the Registrar's Office on the form for granting course approval to students.

6. Pay a processing fee of \$10 per credit hour to get the credit recorded on your transcript.
7. You may take such exams only once.

Advanced Placement Tests (AP)

Following is the list of Advanced Placement Tests evaluated. Tests without course equivalency/credit listed may be accepted, but are not yet evaluated. Minimum score required is 3, unless otherwise noted.

Title of Exam	FSU Course Equivalent(s)	Credit Hrs.
Art History	<i>Score of 3 or 4:</i> ART 100 Art Appreciation	3
	<i>Score of 5:</i> ART 111 Honors: Art Appreciation	3
Biology	BIOL 149 General Biology I	4
	BIOL 150 General Biology II	4
Calculus AB	<i>Score of 3:</i> MATH 120 Pre-Calculus Mathematics	3
	<i>Score of 4 or 5:</i> MATH 236 Calculus I	4
Calculus BC	<i>Score of 3:</i> MATH 236 Calculus I	4
	<i>Score of 4 or 5:</i> MATH 236 Calculus I	4
	MATH 237 Calculus II	4
Chemistry	<i>Score of 3 or 4:</i> CHEM 101 General Chemistry I	4
	<i>Score of 5:</i> CHEM 101 General Chemistry I	4
	CHEM 102 General Chemistry II	4
Computer Science A	<i>Score of 3 or 4:</i> COSC 195 Computer Science Elective	3
	<i>Score of 5:</i> COSC 240 Computer Science I	4
Computer Science AB	<i>Score of 3 or 4:</i> COSC 240 Computer Science I	4
	<i>Score of 5:</i> COSC 240 Computer Science I	4
	COSC 241 Computer Science II	4
Economics: Macro	ECON 201 Principles of Economics (Macro)	3
Economics: Micro	ECON 202 Principles of Economics (Micro)	3
English Language & Composition	<i>Score of 3 or 4:</i> ENGL 101 Freshman Composition	
	<i>Score of 5:</i> ENGL 111 Honors: Freshman Composition	3
English Literature & Composition	<i>Score of 3:</i> ENGL 101 Freshman Composition	3
	<i>Score of 4:</i> ENGL 101 Freshman Composition	3
	ENGL 150 Introduction to Literature	3
	<i>Score of 5:</i> ENGL 111 Honors: Freshman Composition	3
	ENGL 150 Introduction to Literature	3
Environmental Science	IDIS 160 Science, Technology and Society	3
European History	HIST 195 History Elective	3
French Language	FREN 101 Basic Elements of French I	3
	FREN 102 Basic Elements of French II	3

Title of Exam	FSU Course Equivalent(s)	Credit Hrs. Awarded
French Literature	FREN 195 French Elective	3
German Language	MDFL 195 Foreign Language Elective	6
Govt. & Politics: Comparative	POSC 131 Introduction to Comparative Politics	3
Govt. & Politics: U.S.	POSC 110 Introduction to American Politics	3
Human Geography	GEOG 104 Human Geography	3
Internat'l. English Language/APIEL	<i>Not accepted</i>	
Latin Literature	Evaluated at student request	
Latin: Vergil	Evaluated at student request	
Music Theory	MUSC 195	3
Physics B	<i>Score of 3:</i> PHYS 215 General Physics I	4
	<i>Score of 4 or 5:</i> PHYS 215 General Physics I	4
	PHYS 216 General Physics II	4
Physics C: Electricity & Magnetism	PHYS 262 Principles of Physics II: Electricity and Magnetism	4
Physics C: Mechanics	PHYS 261 Principles of Physics I: Mechanics	4
Psychology	PSYC 150 General Psychology	3
Spanish Language	SPAN 101 Basic Elements of Spanish I	3
	SPAN 102 Basic Elements of Spanish II	3
Spanish Literature	SPAN 195 Spanish Elective	3
Statistics	MATH 209 Elements of Appl. Prob. & Statistics	3
Studio Art: Drawing	ART 212 Drawing	3
Studio Art: 2D Design	ART 104 Two-Dimensional Design	3
Studio Art: 3D Design	ART 105 Three-Dimensional Design	3
U.S. History	HIST 103 History of the United States	3
	HIST 104 History of the United States	3
World History	HIST 114 World History	3

International Baccalaureate Exams (IB)

Following is the list of International Baccalaureate Exams currently evaluated. Exams without course equivalency/credit listed may be accepted, but are not yet evaluated. Minimum score required is 4 on the Standard or Higher Level exam unless otherwise noted.

Title of Exam	FSU Course Equivalent(s)	Credit Hrs. Awarded
Language A1	<i>Score of 4 or 5 (Standard):</i> ENGL 101 Freshman Composition	3
	<i>Score of 6 or 7 (Standard):</i> ENGL 101 Freshman Composition	3
	ENGL 150 Introduction to Literature	3
	<i>Score of 4 (Higher Level):</i> ENGL 101 Freshman Composition	3
	<i>Score of 5, 6, or 7 (Higher Level):</i> ENGL 101 Freshman Composition	3
	ENGL 150 Introduction to Literature	3
Language A2	<i>Currently being evaluated. Syllabus review required. Contact Foreign Languages Department.</i>	
Language B	<i>Currently being evaluated. Syllabus review required. Contact Foreign Languages Department.</i>	
Language ab initio	<i>Currently being evaluated. Syllabus review required. Contact Foreign Languages Department.</i>	
Business & Management	BUAD 100 Introduction to Business	3
Economics	ECON 200 Basic Economics	3
Geography	GEOG 195 Geography Elective	3
History	HIST 100 The Contemporary World in Historical Perspective	3
Special Topics in History (e.g., History of the Islamic World, European History)	<i>Syllabus review required. Contact History Department.</i>	3

Title of Exam	FSU Course Equivalent(s)	Credit Hrs. Awarded
Info. Tech. in a Global Society	COSC 100 Introduction to Computer Science	3
Philosophy	<i>Score of 4 or higher (Standard):</i> PHIL 101 Introduction to Philosophy	3
	<i>Score of 4 or higher (Higher Level):</i> PHIL 101 Introduction to Philosophy	3
	PHIL 195 Philosophy Elective	3
Psychology	PSYC 150 General Psychology	3
Social & Cultural Anthropology	<i>Currently being evaluated.</i>	
Biology	BIOL 149 General Biology I	4
Chemistry	<i>Score of 4 or 5:</i> CHEM 101 General Chemistry I	4
	<i>Score of 6 or 7:</i> CHEM 101 General Chemistry I	4
	CHEM 102 General Chemistry II	4
Design Technology	PHYS 195 Physics Elective	3
Environmental Systems	IDIS 160 Science, Technology and Society	3
Physics	<i>Score of 4 or 5 (Higher Level):</i> PHYS 215 General Physics I	4
	<i>Score of 6 or 7 (Higher Level):</i> PHYS 215 General Physics I	4
	PHYS 216 General Physics II	4
Further Mathematics	<i>Score of 4 (Standard):</i> MATH 236 Calculus I	4
	<i>Score of 5, 6, or 7:</i> MATH 236 Calculus I and at least one additional course from MATH 237 or MATH 380. (<i>Syllabus review required. Contact Math Dept.</i>)	3-4
Mathematics Higher Level	<i>Score of 4:</i> MATH 120 Pre-Calculus Mathematics	3
	<i>Score of 5, 6, or 7:</i> MATH 120 Pre-Calculus Mathematics and at least one additional course from among MATH 236, MATH 237 or MATH 380. (<i>Syllabus review required. Contact Math Department.</i>)	3
Mathematical Methods	<i>Score of 4 (Standard):</i> MATH 102 College Algebra	3
	<i>Score of 5, 6, or 7 (Standard):</i> MATH 120 Pre-Calculus Mathematics	3
	<i>Score of 4 (Higher Level):</i> MATH 120 Pre-Calculus Mathematics	3
	<i>Score of 5, 6, or 7 (Higher Level):</i> MATH 236 Calculus I	4
Mathematical Studies	<i>Score of 4 (Standard):</i> MATH 104 Intro to Math. Problem-Solving	3
	<i>Score of 5, 6, or 7: (Standard):</i> MATH 104 Intro to Math. Problem-Solving and possibly one additional course from among MATH 102, MATH 120 or MATH 209 (<i>Syllabus review required. Contact Math Dept.</i>)	3
Computer Science	<i>Currently being evaluated.</i>	
Visual Arts	Course equivalency determined based on portfolio review. Contact Department of Visual Arts.	3
Music	MUSC 195 Music Elective	3
Theatre Arts	THEA 195 Theatre Elective	3

College Level Examination Program (CLEP)

Following is the list of College Level Examination Program exams evaluated as of 2002. Exams without course equivalency / credit listed may be accepted, but are not yet evaluated. Minimum score required is **50**, unless otherwise noted.

Title of Exam	FSU Course Equivalent(s)	Credit Hrs. Awarded
GENERAL		
English Composition (<i>essay required</i>)	ENGL 101 Freshman Composition	3
Humanities	HUMA 195 Humanities Elective	6
Mathematics	MATH 195 Mathematics Elective	6
Natural Sciences	SCIE 195 Natural Science Elective	6
Social Sciences & History	SOSC 195 Social Science Elective	6
SUBJECT		
Composition and Literature		
American Literature	ENGL 261 American Lit.: Colonial to Present	3
Analyzing & Interpreting Literature	ENGL 150 Introduction to Literature	3
English Literature	ENGL 260 British Literature: Beowulf to Present	3
Freshman College Composition	ENGL 101 Freshman Composition	3
Foreign Languages		
College-level French	<i>Level I: Score of 50 minimum:</i> FREN 101 Basic Elements of French I	3
	FREN 102 Basic Elements of French II	3
	<i>Level II: Score of 62 minimum:</i> FREN 101 Basic Elements of French I	3
	FREN 102 Basic Elements of French II	3
	FREN 211 French Grammar, Composition, and Conversation I	3
	FREN 212 French Grammar, Composition, and Conversation II	3
College-level German	Evaluated at student request	
College-level Spanish	<i>Level I: Score of 50 minimum:</i> SPAN 101 Basic Elements of Spanish I	3
	SPAN 102 Basic Elements of Spanish II	3
	<i>LEVEL II: Score of 66 minimum:</i> SPAN 101 Basic Elements of Spanish I	3
	SPAN 102 Basic Elements of Spanish II	3
	SPAN 211 Spanish Grammar, Composition, and Conversation I	3
	SPAN 212 Spanish Grammar, Composition, and Conversation II	3
Social Sciences and History		
American Government	POSC 110 Introduction to American Politics	3
History of the U.S. I:	HIST 103 History of the U.S. (to 1876)	3
Early Colonizations to 1877		
History of the U.S. II:	HIST 104 History of the U. S. (1876 to present)	3
1865 to the Present		
Human Growth & Development	<i>Score of 55 minimum required:</i> PSYC 210 Child Development	3
Intro to Educational Psychology	<i>Currently being evaluated.</i>	
Introductory Psychology	PSYC 150 General Psychology	3
Introductory Sociology	SOCI 100 intro to Sociology	3
Principles of Macroeconomics	ECON 201 Principles of Economics (Macro)	3
Principles of Microeconomics	ECON 202 Principles of Economics (Micro)	3
Western Civilization I:	HIST 195 History Elective	
Ancient Near East to 1648		3
Western Civilization II:	HIST 195 History Elective	
1648 to the Present		3
Science and Mathematics		
Calculus w/Elementary Functions	MATH 236 Calculus I	4
College Algebra	MATH 102 College Algebra	3
College Algebra-Trigonometry	MATH 120 Pre-Calculus Mathematics	3
College Mathematics	MATH 195 Mathematics Elective	3
General Biology	BIOL 149 General Biology I	4
	BIOL 150 General Biology II	4

Title of Exam	FSU Course Equivalent(s)	Credit Hrs. Awarded
General Chemistry	CHEM 101 General Chemistry I	4
Trigonometry	MATH 103 Trigonometry	3
Business		
Information Systems & Computer Applications: <i>Currently being evaluated.</i>		
Introductory Business Law	BLAW 291 Legal Environment of Business	3
Principles of Accounting	ACCT 211 Financial Accounting	3
Principles of Management	MGMT 351 Management of Organizations	3
Principles of Marketing	MKTG 361 Principles of Marketing	3

Special Departmental Exams

Below are listed special departmental examinations currently offered on campus. Students who believe they qualify for credit by exam must take the examination prior to signing up for the course. See the current Undergraduate Registration Guide for specific test dates or contact the department offering the exam for specific information.

Course		Credit Earned
ACCT 211	Financial Accounting	3
ACCT 212	Managerial Accounting	3
ACCT 311	Intermediate Accounting I	3
ART 104	Two-Dimensional Design	3
ART 105	Three-Dimensional Design	3
ART 212	Drawing	3
BIOL 109	Human Biology & the Environment	4
BIOL 149	General Biology I	4
BIOL 150	General Biology II	4
BMIS 320	Advanced Computer Applications in Business	3
COSC 100	Intro. to Computer Science	3
COSC 240	Computer Science I	4
COSC 350	Computer Org./Assem.Language	3
ENGL 101	Freshman Comp.	3
ENGL 308	Soc. Science Adv. Comp	3
ENGL 310	General Adv. Comp.	3
GEOG 103	Physical Geography	4
GEOG 104	Human Geography	3
GEOG 207	Physical Geology	4
GEOG 208	Historical Geology	4
GEOG 275	Fundamentals of Geographic Data Handling	3
HEED 100	Personal Wellness	2
MATH 102	College Algebra	3
MATH 103	Trigonometry	3
MATH 106	Algebra w/Calculus for Business	3
MATH 120	Pre-Calculus Math.	3
MATH 209	Elements of Probability & Statistics	3
MATH 220	Calculus for Applications I	3
MATH 236	Calculus I	4
MUSC 101	Music Fundamentals	2
MUSC 102	Theory I	3
PSYC 150	General Psychology	3
PSYC 386	Drugs and Human Behavior	3
PSYC 387	Addictions Treatment Delivery	3
PSYC 388	Treatment Issues and Theory in Addictions	3
PSYC 389	Ethics for the Addiction Counselor	1
PSYC 404	Psychology of the Exceptional Child	3
PSYC 417	Psychology of Abnormal Behavior	3
PSYC 430	Health Psychology	3
SOWK 375	Human Behavior & the Social Environment	3

You may also receive credit by accelerated placement in foreign languages by passing a higher level course with a grade of C or better. You must pay a fee of \$10 per credit. Accelerated placement credit is available in: FREN 101, 102, 211, 212, 250; SPAN 101, 102, 211, 212, 250 (3 credits per course).

USM Bylaws, Policies and Procedures of the Board of Regents

Policy on Student Classification For Admission and Tuition Purposes

(Approved by the Board of Regents August 28, 1990; Amended July 10, 1998; Amended November 27, 2000; Amended April 11, 2003; Amended June 23, 2006)

I. POLICY

A. Purpose

To extend the benefits of its system of higher education while encouraging the economical use of the State's resources,¹ it is the policy of the Board of Regents of the University System of Maryland (USM) to recognize the tuition categories of in-state and out-of-state students for the purpose of admission and assessing tuition at USM institutions.

B. Burden of Proof

The person seeking in-state status shall have the burden of proving by clear and convincing evidence that he or she satisfies the requirements and standards set forth in this Policy. Assignment of in-state or out-of-state status will be made by the applicable USM institution upon a review of the totality of facts known or presented to it.

C. In-state Status

To qualify for in-state tuition, a student must demonstrate that, for at least twelve (12) consecutive months immediately prior to and including the last date available to register for courses in the semester/term for which the student seeks in-state tuition status, the student had the continuous intent to:

1. Make Maryland his or her permanent home; and
2. Abandon his or her former home state; and
3. Reside in Maryland indefinitely; and
4. Reside in Maryland primarily for a purpose other than that of attending an educational institution in Maryland.

Satisfying all of the requirements in Section II (and Section III, when applicable) of this policy demonstrates continuous intent and qualifies a student for in-state tuition. Students not entitled to in-state status under this policy shall be assigned out-of-state status for admission and tuition purposes.

D. Presumption

Either of the following circumstances raises a presumption that the student is residing in the State of Maryland primarily for the purpose of attending an educational institution and therefore, does not qualify for in-state status under this policy:

1. A student is attending school or living outside Maryland at the time of application for admission to a USM institution, or
2. A student is Financially Dependent on a person who is not a resident of Maryland.

This presumption may be rebutted. The student bears the burden of rebutting the presumption. See "III. Rebuttal Evidence" below.

II. REQUIREMENTS

Before a request for classification to in-state status will be considered, a student must comply with all of the following requirements for a period of at least twelve (12) consecutive months immediately prior to and including the last date available to register for courses in the semester/term for which the student seeks in-state tuition status. The student must demonstrate he or she:

- A. Owns or possesses, and has continuously occupied, including during weekends, breaks and vacations, living quarters in Maryland. The student must provide evidence of a genuine deed or lease and documentation of rent payments made. In lieu of a deed or lease, a notarized affidavit from a landlord showing the address, name of the student as occupant, term of residence, and history of rent payments made will be considered. As an alternative, a student may demonstrate that he or she shares living quarters in Maryland which are owned or rented and occupied by a parent, legal guardian or spouse.
- B. Has substantially all of his or her personal property, such as household effects, furniture and pets in Maryland.

- C. Has paid Maryland income tax on all taxable income including all taxable income earned outside the State and has filed a Maryland tax return.
- D. Has registered all owned or leased motor vehicles in Maryland.
- E. Possesses a valid Maryland driver's license, if licensed.
- F. Is registered to vote in Maryland, if registered to vote.
- G. Receives no public assistance from a state other than the State of Maryland or from a city, county or municipal agency other than one in Maryland.
- H. Has a legal ability under Federal and Maryland law to live permanently without interruption in Maryland.
- I. Has rebutted the presumption that he or she is in Maryland primarily to attend an educational institution, if the student's circumstances have raised the presumption.

III. REBUTTAL EVIDENCE

Satisfying the requirements listed in paragraphs A through I of Section II, does not rebut the presumption that a student is in Maryland primarily to attend an educational institution. To overcome the presumption, a student must present additional evidence.

To determine a student's intent, the University will evaluate evidence of a student's objectively verifiable conduct. Evidence that does not document a period of at least twelve (12) consecutive months immediately prior to and including the last date available to register for courses in the semester/term for which the student seeks in-state tuition status is generally considered an unfavorable factor under this policy. Evidence of intent must be clear and convincing and will be evaluated not only by the amount presented but also based upon the reliability, authenticity, credibility and relevance of the evidence.

The absence of objective, relevant evidence is generally considered an unfavorable factor. A student's statement of intent to remain in Maryland in the future is generally not considered to be objective evidence under this policy.

Additional evidence that will be considered includes, but is not limited to, the following:

A. Source of financial support:

- 1. Maryland employment and earnings history through sources beyond those incident to enrollment as a student in an educational institution (e.g., beyond support provided by work study, scholarships, grants, stipends, aid, student loans, etc.), or
- 2. Evidence the student is Financially Dependent upon a person who is a resident of Maryland.
- B. Substantial participation as a member of a professional, social, community, civic, political, athletic or religious organization in Maryland that is not University-related or otherwise incident to enrollment as a student in an educational institution.
- C. Registration as a Maryland resident with the Selective Service, if male.
- D. Evidence showing the student uses his or her Maryland address as his or her sole address of record for all purposes including on health and auto insurance records, bank accounts, tax records, loan and scholarship records, school records, military records, leases, etc.
- E. An affidavit from a person unrelated to the student that provides objective, relevant evidence of a student's conduct demonstrating the student's intent to live permanently in Maryland.

IV. NON-RESIDENTS WHO MAY TEMPORARILY QUALIFY FOR IN-STATE STATUS

In addition, persons with the following status shall be accorded the benefits of in-state status for the period in which they hold such status:

- A. A full-time or part-time (at least 50 percent time) regular employee of USM or a USM institution.
- B. The spouse or Financially Dependent child of a full-time or part-time (at least 50 percent time) regular employee of USM or a USM institution.
- C. A full-time active member of the Armed Forces of the United States whose home of record is Maryland or one who resides or is stationed in Maryland, or the spouse or a Financially Dependent child of such a person. Students that qualify under this provision will retain in-state status for tuition purposes as long as they are Continuously Enrolled regardless of

a change in military assignment or status of the active member of the military.

- D. A veteran of the United States Armed Forces with an honorable discharge who, within one year of discharge, presents documentation that he or she attended a secondary school in the State for at least three years, and graduated or received the equivalent of a high school diploma from a secondary school in the State. The veteran must present documentation and register at a USM institution within one year of discharge for this provision to apply.
- E. For UMUC, a full-time active member of the Armed Forces of the United States on active duty, or the spouse of a member of the Armed Forces of the United States on active duty.
- F. A graduate assistant appointed through a USM institution for the semester/term of the appointment. Except through prior arrangement, this benefit is available only for enrollment at the institution awarding the assistantship.

V. PROCEDURES

- A. An initial determination of in-state status will be made at the time of admission. The determination made at that time, and any determination made thereafter, shall prevail for each semester/term until the determination is successfully challenged in a timely manner.
- B. A change in status must be requested by submitting a USM institution's "Petition for Change in Classification for Tuition". A student applying for a change to in-state status must furnish all evidence that the student wishes the USM institution to consider at the time the petition is due. The due date is based on the deadline set forth by the USM institution at which the student seeks to enroll. If the applicable USM institution has no such deadline, the due date is the last published date to register for the forthcoming semester/term for which the change in classification is sought.
- C. The student shall notify the USM institution in writing within fifteen (15) days of any change in circumstances which may alter in-state status.
- D. In the event incomplete, false, or misleading information is presented, the USM institution may, at its discretion, revoke in-state status and take disciplinary action provided for by the institution's policy. Such action may include suspension or expulsion. If in-state status is gained due to false or misleading information, the institution reserves the right to retroactively assess all out-of-state charges for each semester/term affected.
- E. Each USM institution shall develop and publish additional procedures to implement this Policy. Procedures shall provide that on request the institution President or designee has the authority to waive any requirement set forth in Section II if it is determined that the application of the requirements creates an unjust result. These procedures shall be filed with the Office of the Chancellor.

VI. DEFINITIONS

- A. Financially Dependent: For the purposes of this policy, a financially dependent student is one who is claimed as a dependent for tax purposes.
- B. Parent: A parent may be a natural parent, or, if established by a court order recognized under the law of the State of Maryland, an adoptive parent.
- C. Guardian: A guardian is a person so appointed by a court order recognized under the law of the State of Maryland.
- D. Spouse: A spouse is a partner in a legally contracted marriage.
- E. Child: A child is a natural child or a child legally adopted pursuant to a court order recognized under the law of Maryland.
- F. Regular Employee: A regular employee is a person employed by USM or a USM institution who is assigned to a State budget line or who is otherwise eligible to enroll in a State retirement system. Examples of categories NOT considered regular employees are graduate students, contingent employees, and independent contractors.
- G. Continuous Enrollment:
 - 1. Undergraduate Student - An undergraduate student who is enrolled at a USM institution for consecutive fall and spring semesters, until completion of the student's current degree program or unless on an approved leave of absence or participating in an approved program off-campus.

2. Graduate and Professional - Continuous enrollment for a graduate or professional student is defined by the institution in accordance with program requirement

VI. IMPLEMENTATION

This policy as amended by the Board of Regents on June 23, 2006 shall be applied to all student tuition classification decisions made on or after this date.

FSU Procedure for Residency Status Appeals

Any student who wishes to appeal the decision of residency status previously determined by the Office of the Registrar or the Admissions Office, may do so in writing to the Appeals Board for Residency Status. This board shall consist of representatives designated by the Provost, the Vice President for Student and Educational Services, and the Vice President for Administration and Finance. The appeal will be reviewed by the board members in the order listed. Only by unanimous agreement of the board members will the decision of the Office of the Registrar or Admissions be overruled. Upon request, the President or designee has the authority to waive any residency requirements if it is determined that the student is indeed a permanent resident and application of the criteria creates an unjust result.

A student desiring to appeal should obtain and submit the University System of Maryland "Petition for Change in Classification for Tuition" through the office that made the original residency status decision, the Office of the Registrar or the Admissions Office.

General Education and Transfer

Subtitle 06

TITLE 13B - MARYLAND HIGHER EDUCATION COMMISSION

Chapter 01 Public Institutions of Higher Education

Authority: Education Article, 11-201 - 11-206

Annotated Code of Maryland

.01 Scope and Applicability.

This chapter applies only to public institutions of higher education.

.02 Definitions.

A. In this chapter, the following terms have the meanings indicated.

B. Terms defined.

- (1) "A.A. degree" means the Associate of Arts degree.
- (2) "A.A.S. degree" means the Associate of Applied Sciences degree.
- (3) "Arts" means courses that examine aesthetics and the development of the aesthetic form and explore the relationship between theory and practice. Courses in this area may include fine arts, performing and studio arts, appreciation of the arts, and history of the arts.
- (4) "A.S. degree" means the Associate of Sciences degree.
- (5) "Biological and physical sciences" means courses that examine living systems and the physical universe. They introduce students to the variety of methods used to collect, interpret, and apply scientific data, and to an understanding of the relationship between scientific theory and application.
- (6) "English composition courses" means courses that provide students with communication knowledge and skills appropriate to various writing situations, including intellectual inquiry and academic research.
- (7) "General education" means the foundation of the higher education curriculum providing a coherent intellectual experience for all students.
- (8) "General education program" means a program that is designed to:
 - (a) introduce undergraduates to the fundamental knowledge, skills, and values that are essential to the study of academic disciplines;

(b) encourage the pursuit of life-long learning, and;

(c) foster the development of educated members of the community and the world.

(9) "Humanities" means courses that examine the values and cultural heritage that establish the framework for inquiry into the meaning of life. Courses in the humanities may include the language, history, literature, and philosophy of Western and other cultures.

(10) "Mathematics" means courses that provide students with numerical, analytical, statistical and problem-solving skills.

(11) "Native student" means a student whose initial college enrollment was at a given institution of higher education and who has not transferred to another institution of higher education since that initial enrollment.

(12) "Parallel program" means the program of study or courses at one institution of higher education which has comparable objectives as those at another higher education institution, for example, a transfer program in psychology in a community college is definable as a parallel program to a baccalaureate psychology program at a 4-year institution of higher education.

(13) "Receiving institution" means the institution of higher education at which a transfer student currently desires to enroll.

(14) "Recommended transfer program" means a planned program of courses, both general education and courses in the major, taken at a community college, which is applicable to a baccalaureate program at a receiving institution, and ordinarily the first 2 years of the baccalaureate degree.

(15) "Sending institution" means the institution of higher education of most recent previous enrollment by a transfer student at which transferable academic credit was earned.

(16) "Social and behavioral sciences" means courses that examine the psychology of individuals and the ways in which individuals, groups, or segments of society behave, function, and influence one another. The courses include, but are not limited to, subjects which focus on:

- (a) history and cultural diversity;
- (b) concepts of groups, work and political systems;
- (c) applications of qualitative and quantitative data to social issues; and
- (d) interdependence of individuals, society, and the physical environment.

(17) "Transfer student" means a student entering an institution for the first time having successfully completed a minimum of 12 semester hours at another institution which is applicable for credit at the institution the student is entering.

.02-1 Admission of Transfer Students to Public Institutions

A. Admission to Institutions.

- (1) A student attending a public institution who has completed an A.A., A.A.S., or A.S. degree or who has completed 56 or more semester hours of credit, shall not be denied direct transfer to another public institution if the student attained a cumulative grade point average of at least 2.0 on a 4.0 scale or its equivalent in parallel courses, except as provided in subsection (4) below.
- (2) A student attending a public institution who has not completed an A.A., A.A.S., or A.S. degree or who has completed fewer than 56 semester hours of credit, shall be eligible to transfer to a public institution regardless of the number of credit hours earned if the student:
 - (a) Satisfied the admission criteria of that receiving public institution as a high school senior; and
 - (b) Attained at least a cumulative grade point average of 2.0 on a 4.0 scale or its equivalent in parallel courses.
- (3) A student attending a public institution who did not satisfy the admission criteria of a receiving public institution as a high school senior, but who has earned sufficient credits at a public institution to be classified by the receiving public institution as a sophomore, shall meet the stated admission criteria developed and published by the receiving public institution for transfer.

- (4) If the number of students seeking admission exceeds the number that can be accommodated at a receiving public institution, admission decisions shall be:

- (a) Based on criteria developed and published by the receiving institution; and
- (b) Made to provide fair and equal treatment for native and transfer students.

B. Admission to Programs.

- (1) A receiving public institution may require higher performance standards for admission to some programs if the standards and criteria for admission to the program:

- (a) Are developed and published by the receiving institution; and
- (b) Maintain fair and equal treatment for native and transfer students.

- (2) If the number of students seeking admission exceeds the number that can be accommodated in a particular professional or specialized program, admission decisions shall be:

- (a) Based on criteria developed and published by the receiving institution; and
- (b) Made to provide fair and equal treatment for native and transfer students.

- (3) Courses taken at a public institution as part of a recommended transfer program leading toward a baccalaureate degree shall be applicable to related programs at a public institution granting the baccalaureate degree.

C. Receiving Institution Program Responsibility

- (1) The faculty of a receiving public institution shall be responsible for development and determination of the program requirements in major fields of study for a baccalaureate degree, including courses in the major field of study taken in the lower division.

- (2) A receiving institution may set program requirements in major fields of study which may simultaneously fulfill general education requirements.

- (3) A receiving public institution, in developing its lower division course work, shall exchange information with other public institutions to facilitate the transfer of credits into its program.

.03 General Education Requirements for Public Institutions.

- A.** While public institutions have the autonomy to design their general education program to meet their unique needs and mission, that program shall conform to the definitions and common standards in this chapter. A public institution shall satisfy the general education requirement by:

- (1) Requiring each program leading to the A.A. or A.S. degree to include not less than 30 and no more than 36 semester hours, and each baccalaureate degree program to include not less than 40 and not more than 46 semester hours of required core courses, with the core requiring, at a minimum, course work in each of the following five areas:

- (a) Arts and humanities,
- (b) Social and behavioral sciences,
- (c) Biological and physical sciences,
- (d) Mathematics, and
- (e) English composition; or

- (2) Conforming with COMAR 13B. 02. 02. 16D (2)(b)-(c).

- B.** Each core course used to satisfy the distribution of §A (1) of this regulation shall carry at least 3 semester hours.

- C.** General education programs of public institutions shall require at least:

- (1) One course in each of two disciplines in arts and humanities;
- (2) One course in each of two disciplines in social and behavioral sciences;
- (3) Two science courses, at least one of which shall be a laboratory course;
- (4) One course in mathematics at or above the level of college algebra; and
- (5) One course in English composition.

- D.** Interdisciplinary and Emerging Issues.

- (1) In addition to the five required areas in §A of this regulation, a public institution may include up to 8 semester hours in a sixth category that addresses emerging issues that institutions have identified as essential to a full program of general education for their students. These courses may:

- (a) Be integrated into other general education courses or may be presented as separate courses; and
- (b) Include courses that:
 - (i) Provide an interdisciplinary examination of issues across the five areas; or
 - (ii) Address other categories of knowledge, skills, and values that lie outside of the five areas.

- (2) Public institutions may not include the courses in this section in a general education program unless they provide academic content and rigor equivalent to the areas in §A(1) of this regulation.

- E.** General education programs leading to the A.A.S. degree shall include at least 20 semester hours from the same course list designated by the sending institution for the A.A. and A.S. degrees. The A.A.S. degree shall include at least one 3 semester-hour course from each of the five areas listed in §(A)(1).

- F.** A course in a discipline listed in more than one of the areas of general education may be applied only to one area of general education.

- G.** A public institution may allow a speech communication or foreign language course to be part of the arts and humanities category.

- H.** Composition and literature courses may be placed in the arts and humanities area if literature is included as part of the content of the course.

- I.** Public institutions may not include physical education skills courses as part of the general education requirements.

- J.** General education courses shall reflect current scholarship in the discipline and provide reference to theoretical frameworks and methods of inquiry appropriate to academic disciplines.

- K.** Courses that are theoretical may include applications, but all applications courses shall include theoretical components if they are to be included as meeting general education requirements.

- L.** Public institutions may incorporate knowledge and skills involving the use of quantitative data, effective writing, information retrieval, and information literacy when possible in the general education program.

- M.** Notwithstanding §A(1) of this regulation, a public four-year institution may require 48 semester hours of required core courses if courses upon which the institution's curriculum is based carry 4 semester hours.

- N.** Public institutions shall develop systems to ensure that courses approved for inclusion on the list of general education courses are designed and assessed to comply with the requirements of this chapter.

.04 Transfer of General Education Credit.

- A.** A student transferring to one public institution from another public institution shall receive general education credit for work completed at the student's sending institution as provided by this chapter.

- B.** A completed general education program shall transfer without further review or approval by the receiving institution and without the need for a course-by-course match.

- C.** Courses that are defined as general education by one institution shall transfer as general education even if the receiving institution does not have that specific course or has not designated that course as general education.

- D.** The receiving institution shall give lower-division general education credits to a transferring student who has taken any part of the lower-division general education credits described in Regulation .03 of this chapter at a public institution for any general education courses successfully completed at the sending institution.

- E.** Except as provided in Regulation .03M of this chapter, a receiving institution may not require a transfer student who has completed the requisite number of general education credits at any public college or university to take, as a condition of graduation, more than 10-16 additional semester hours of general education and specific courses required of all students at the receiving institution, with the total number not to exceed 46 semester

hours. This provision does not relieve students of the obligation to complete specific academic program requirements or course prerequisites required by a receiving institution.

- F. A sending institution shall designate on or with the student transcript those courses that have met its general education requirements, as well as indicate whether the student has completed the general education program.

G. A.A.S. Degrees.

(1) While there may be variance in the numbers of hours of general education required for A.A., A.S., and A.A.S. degrees at a given institution, the courses identified as meeting general education requirements for all degrees shall come from the same general education course list and exclude technical or career courses.

(2) An A.A.S. student who transfers into a receiving institution with fewer than the total number of general education credits designated by the receiving institution shall complete the difference in credits according to the distribution as designated by the receiving institution. Except as provided in .03M of this chapter, the total general education credits for baccalaureate degree-granting public receiving institutions may not exceed 46 semester hours.

H. Student responsibilities. A student is held:

- (1) Accountable for the loss of credits that:
 - (a) Result from changes in the student's selection of the major program of study,
 - (b) Were earned for remedial course work, or
 - (c) Exceed the total course credits accepted in transfer as allowed by this chapter; and
- (2) Responsible for meeting all requirements of the academic program of the receiving institution.

.05 Transfer of Non-General Education Program Credit

A. Transfer to Another Public Institution

- (1) Credit earned at any public institution in the State is transferable to any other public institution if the:
 - (a) Credit is from a college or university parallel course or program;
 - (b) Grades in the block of courses transferred average 2.0 or higher; and
 - (c) Acceptance of the credit is consistent with the policies of the receiving institution governing native students following the same program.
- (2) If a native student's "D" grade in a specific course is acceptable in a program, then a "D" earned by a transfer student in the same course at a sending institution is also acceptable in the program. Conversely, if a native student is required to earn a grade of "C" or better in a required course, the transfer student shall also be required to earn a grade of "C" or better to meet the same requirement.

B. Credit earned in or transferred from a community college is limited to:

- (1) 1/2 the baccalaureate degree program requirement, but may not be more than 70 semester hours; and
- (2) The first two years of the undergraduate educational experience.

C. Nontraditional Credit.

- (1) The assignment of credit for AP, CLEP, or other nationally recognized standardized examination scores presented by transfer students is determined according to the same standards that apply to native students in the receiving institution, and the assignment shall be consistent with the State minimum requirements.
- (2) Transfer of credit from the following areas shall be consistent with COMAR 13B.02.02. and shall be evaluated by the receiving institution on a course-by-course basis:
 - (a) Technical courses from career programs;
 - (b) Course credit awarded through articulation agreements with other segments or agencies;
 - (c) Credit awarded for clinical practice or cooperative education experiences; and
 - (d) Credit awarded for life and work experiences.

(3) The basis for the awarding of the credit shall be indicated on the student's transcript by the receiving institution.

(4) The receiving institution shall inform a transfer student of the procedures for validation of course work for which there is no clear equivalency. Examples of validation procedures include ACE recommendations, portfolio assessment, credit through challenge, examinations and satisfactory completion of the next course in sequence in the academic area.

(5) The receiving baccalaureate degree-granting institution shall use validation procedures when a transferring student successfully completes a course at the lower division level that the receiving institution offers at the upper division level. The validated credits earned for the course shall be substituted for the upper division course.

D. Program Articulation.

(1) Recommended transfer programs shall be developed through consultation between the sending and receiving institutions. A recommended transfer program represents an agreement between the two institutions that allows students aspiring to the baccalaureate degree to plan their programs. These programs constitute freshman/sophomore level course work to be taken at the community college in fulfillment of the receiving institution's lower division course work requirement.

(2) Recommended transfer programs in effect at the time that this regulation takes effect, which conform to this chapter, may be retained.

.06 Academic Success and General Well-Being of Transfer Students.

A. Sending Institutions.

- (1) Community colleges shall encourage their students to complete the associate degree or to complete 56 hours in a recommended transfer program which includes both general education courses and courses applicable toward the program at the receiving institution.
- (2) Community college students are encouraged to choose as early as possible the institution and program into which they expect to transfer.
- (3) The sending institution shall:
 - (a) Provide to community college students information about the specific transferability of courses at 4-year colleges;
 - (b) Transmit information about transfer students who are capable of honors work or independent study to the receiving institution; and
 - (c) Promptly supply the receiving institution with all the required documents if the student has met all financial and other obligations of the sending institution for transfer.

B. Receiving Institutions.

- (1) Admission requirements and curriculum prerequisites shall be stated explicitly in institutional publications.
- (2) A receiving institution shall admit transfer students from newly established public colleges that are functioning with the approval of the Maryland Higher Education Commission on the same basis as applicants from regionally accredited colleges.
- (3) A receiving institution shall evaluate the transcript of a degree seeking transfer student as expeditiously as possible, and notify the student of the results not later than mid-semester of the student's first semester of enrollment at the receiving institution, if all official transcripts have been received at least 15 working days before mid-semester. The receiving institution shall inform a student of the courses which are acceptable for transfer credit and the courses which are applicable to the student's intended program of study.
- (4) A receiving institution shall give a transfer student the option of satisfying institutional graduation requirements that were in effect at the receiving institution at the time the student enrolled as a freshman at the sending institution. In the case of major requirements, a transfer student may satisfy the major requirements in effect at the time when the student was identifiable as pursuing the recommended transfer program at the sending institution. These conditions are applicable to a student who has been continuously enrolled at the sending institution.

.07 Programmatic Currency.

- A. A receiving institution shall provide to the community college current and accurate information on recommended transfer programs and the

transferability status of courses. Community college students shall have access to this information.

- B. Recommended transfer programs shall be developed with each community college whenever new baccalaureate programs are approved by the degree-granting institution.
- C. When considering curricular changes, institutions shall notify each other of the proposed changes that might affect transfer students. An appropriate mechanism shall be created to ensure that both 2-year and 4-year public colleges provide input or comments to the institution proposing the change. Sufficient lead time shall be provided to effect the change with minimum disruption. Transfer students are not required to repeat equivalent course work successfully completed at a community college.

.08 Transfer Mediation Committee.

- A. There is a Transfer Mediation Committee, appointed by the Secretary, which is representative of the public 4-year colleges and universities and the community colleges.
- B. Sending and receiving institutions that disagree on the transferability of general education courses as defined by this chapter shall submit their disagreements to the Transfer Mediation Committee. The Transfer Mediation Committee shall address general questions regarding existing or past courses only, not individual student cases, and shall also address questions raised by institutions about the acceptability of new general education courses. As appropriate, the Committee shall consult with faculty on curricular issues.
- C. The findings of the Transfer Mediation Committee are considered binding on both parties.

.09 Appeal Process.

A. Notice of Denial of Transfer Credit by the Receiving Institution.

- (1) Except as provided in §A(2) of this regulation, a receiving institution shall inform a transfer student in writing of the denial of transfer credit not later than mid-semester of the transfer student's first semester, if all official transcripts have been received at least 15 working days before mid-semester.
- (2) If transcripts are submitted after 15 working days before mid-semester of the student's first semester, the receiving institution shall inform the student of credit denied within 20 working days of receipt of the official transcript.
- (3) A receiving institution shall include in the notice of denial of transfer credit:
 - (a) A statement of the student's right to appeal; and
 - (b) A notification that the appeal process is available in the institution's catalog.
- (4) The statement of the student's right to appeal the denial shall include notice of the time limitations in §B of this regulation.

- B. A student believing that the receiving institution has denied the student transfer credits in violation of this chapter may initiate an appeal by contacting the receiving institution's transfer coordinator or other responsible official of the receiving institution within 20 working days of receiving notice of the denial of credit.

C. Response by Receiving Institution.

- (1) A receiving institution shall:
 - (a) establish expeditious and simplified procedures governing the appeal of a denial of transfer of credit; and
 - (b) respond to the student appeal within 10 working days.
- (2) An institution may either grant or deny an appeal. The institution's reasons for denying the appeal shall be consistent with this chapter and conveyed to the student in written form.
- (3) Unless a student appeals to the sending institution, the written decision in §C(2) of this regulation constitutes the receiving institution's final decision and is not subject to appeal.

D. Appeal to Sending Institution.

- (1) If a student has been denied transfer credit after an appeal to the receiving institution, the student may request the sending institution to intercede on the student's behalf by contacting the transfer coordinator of

the sending institution.

- (2) A student shall make an appeal to the sending institution within 10 working days of having received the decision of the receiving institution.

E. Consultation between Sending and Receiving Institutions.

- (1) Representatives of the two institutions shall have 15 working days to resolve the issues involved in an appeal.
- (2) As a result of a consultation in this section, the receiving institution may affirm, modify, or reverse its earlier decision.
- (3) The receiving institution shall inform a student in writing of the result of the consultation.
- (4) The decision arising out of a consultation constitutes the final decision of the receiving institution and is not subject to appeal.

.10 Periodic Review.

A. Report by Receiving Institution.

- (1) A receiving institution shall report annually the progress of students who transfer from 2-year and 4-year institutions within the State to each community college and to the Secretary of the Maryland Higher Education Commission.
- (2) An annual report shall include ongoing reports on the subsequent academic success of enrolled transfer students, including graduation rates, by major subject areas.
- (3) A receiving institution shall include in the reports comparable information on the progress of native students.

- B. Transfer Coordinator. A public institution of higher education shall designate a transfer coordinator, who serves as a resource person to transfer students at either the sending or receiving campus. The transfer coordinator is responsible for overseeing the application of the policies and procedures outlined in this chapter and interpreting transfer policies to the individual student and to the institution.

- C. The Maryland Higher Education Commission shall establish a permanent Student Transfer Advisory Committee that meets regularly to review transfer issues and recommend policy changes as needed. The Student Transfer Advisory Committee shall address issues of interpretation and implementation of this chapter.

Effective date: December 4, 1995 (22:24 Md. R. 1901)

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(23:13 Md. R. 946)

Revised: February 11, 1998

University Procedures for Review of Alleged Arbitrary and Capricious Grading

Grounds for Grievance

The following procedures implement the University System of Maryland Policy for Review of Alleged Arbitrary and Capricious Grading (BOR III-1.20) and are designed to provide a means for a student to seek review of final course grades alleged to be arbitrary and capricious. In this policy the term *arbitrary and capricious* grading means 1) the assignment of a course grade to a student on some basis other than performance in the course; 2) the assignment of a course grade to a student by unreasonable application of standards different from the standards that were applied to other students in that course; or 3) the assignment of a course grade by a substantial and unreasonable departure from the instructor's initially articulated standards.

Alleging a final grade to have been determined in an arbitrary and capricious manner is the sole ground upon which a student may seek review under these procedures. Since matters within the instructor's sphere of academic judgment — such as choice of instructional and evaluation methods, criteria, and standards for evaluation — are not grounds for grievance, the burden of proving arbitrary and capricious grading by clear and convincing evidence will rest with the student.

How to Undertake a Grade Grievance

Students or faculty who desire additional information about the procedures that follow should contact the Assistant to the Provost.

Stage I: Mediation

A student seeking review for a final grade in a course should make a reasonable effort to confer with the instructor and attempt to resolve the matter informally. If this effort is unsuccessful, the student approaches the chair of the department offering the course to request mediation of the grade dispute. This action must be taken no later than the 15th class day of the semester subsequent to the term in which the grade was received. The chair will inform the student of the grounds proper to a grade grievance, as stated above. The chair also will review relevant material and consult with the instructor in an effort to resolve the issue of the grade. (If the instructor involved is the chair, the student approaches the senior faculty member in the department to request mediation.)

In cases where a resolution mutually acceptable to the student and the instructor is not forthcoming, and the student wishes to pursue a formal grievance, the student may proceed to Stage II.

Stage II: Formal Grievance

As a precondition to filing a formal grievance, a student must fulfill all of his/her responsibilities and meet the deadline specified in Stage I: Mediation above.

By the end of the 30th class day of the semester, a student wishing to grieve a grade must file a written grievance with the instructor's school dean. This grievance must describe in detail the bases for the allegation that the grade was arbitrary and capricious, and include all evidence supporting that claim. The student must send copies of this statement to the instructor and the chair.

The dean will dismiss the grievance if the student 1) did not participate in Stage I: Mediation and/or meet the deadline specified in Stage I; 2) did not file the Stage II appeal by the stated deadline; 3) does not furnish evidence that the allegations, if true, constitute arbitrary and capricious grading, as defined above; and/or 4) has filed a complaint concerning the same grade with the Office of Affirmative Action/EEO alleging discrimination or sexual harassment.

If the grievance is not dismissed, the dean shall ask the instructor to respond to the grievance in writing within ten class days, addressing the response to the dean and copying the student and the chair. The dean will ask the chair to forward all documentary evidence collected during the mediation stage to the dean.

If the grievance is not dismissed, the dean shall appoint within ten class days a grade grievance committee of three tenured faculty members and shall schedule an informal, non-adversarial grade grievance hearing. The student,

the instructor, and the chair will be invited to attend the hearing, and may present relevant evidence. The dean also will attend and may choose to participate in the discussion. In keeping with the informal nature of the hearing, neither the student nor the instructor may be accompanied by a representative or advisor. If the academic records of other students in the grievant's class are relevant to the discussion, the grievant must be excused for that portion of the hearing in order to protect the privacy of other students. At the conclusion of the hearing, the committee shall forward its recommendation to the dean, who may accept, reject or alter the recommendation. The dean shall render a decision to the student in writing, either in support of the original grade or of a grade change. If the dean recommends a grade change and the instructor refuses to change the grade, the dean will vacate and replace the grade in question.

In deciding whether the circumstances justify changing the grade, the dean shall determine whether the grievant has provided clear and convincing evidence of *arbitrary and capricious* grading. Copies of the dean's decision, which shall be final, will be filed with the instructor and the chair.

Student Records Annual Notification

Under the Family Educational Rights and Privacy Act (commonly referred to as the "Buckley Amendment"), students have certain rights regarding the inspection and disclosure of education records directly related to the student and maintained by the University.

1. The right to inspect and review, with certain exceptions as stated in University Policy, the student's educational records. Requests for inspection should be made in writing and directed to the Registrar's Office.
2. The right to request an amendment of the student's education records if the student believes that they are inaccurate, misleading or otherwise in violation of the student's right to privacy or other rights. A request to amend education records must be made in writing and submitted to the Registrar.
3. The right not to have the University disclose personally identifiable information contained in the student's education records without the student's prior, written consent, except to the extent such disclosure is authorized under the Buckley Amendment and implementing regulations.
4. The right to obtain a copy of the University's Policy on Compliance with the Buckley Amendment. Copies are available in the Office of the Registrar. That Policy contains a thorough review of the students' rights under the Buckley Amendment.
5. The right to file with the U.S. Department of Education a complaint if the student believes that the University has failed to comply with the requirements of the Buckley Amendment. Complaints may be filed with the Family Policy and Regulations Office, U.S. Department of Education, Washington, D.C., 20202.

The following categories of information will be considered by the University to be directory information:

name, address, hometown, telephone, date of birth, major, activities, and sports, weight and height for athletes, dates of attendance, degrees and awards received, most recent educational agency or institution attended, classification.

Under the Buckley Amendment, this information may be disclosed without the student's prior consent unless the student submits on an annual basis a Non-Disclosure of Information Form with the Office of the Registrar. Parents may gain access to records as long as they provide the Registrar with a certified copy of their income tax return as proof of a student's dependency.

Non-Disclosure of Information Forms must be submitted to the Office of the Registrar by the end of the drop/add period each semester.

Index

Absences for Activities	40	Black Student Alliance	27
Absences for Religious Observances	40	Board Charges	15
Academic Advising Policies and Procedures	39	Business Administration	51, 180
Academic Calendar	iv	Business Economics	54
Academic Common Market	14	Business Law	180
Academic Computing	7	Business Management Information Systems	180
Academic Dismissal	45	Calendar	iv
Academic Eligibility for Athletes	46	Call to Active Military Duty	42
Academic Life	30	Campus Life & Activities	24, 27
Academic Probation	45	Campus Visits	11
Academic Program	30	Capstone Experience	34
Academic Programs	3	Career Connections	34
Academic Progress Standards	21	Career Services	26
Academic Regulations & Procedures	39	Catalog Governing Graduation Requirements	35
Academic Standards	43	Center for International Education	36
Academic Warning	45	Certificate Programs	4, 14, 38
Acceptance of Transfer Credit Policy	13	Change of Grades	44
Accounting	49, 175	Charges for Collection of Unpaid Bills	17
Accreditation	ii	Chemistry	89, 180
Addictions Counselor Preparation	80	Children's Center	8
Additional Academic Opportunities	35	Choosing a Major	4
Additional Bachelor's Degree Program	38	Class Standing	39
Additional Major Program	38	Coaching	63
Admission	11	College Level Examination Program (CLEP)	237, 239
Admission for G.E.D. Recipients	12	College of Business	47
Admission for Mature Adults	11	College of Education	59
Admission for Transfer Students	12	College of Liberal Arts & Sciences	79
Admission of International Students	12	College Preparatory Program in High School	11
Advance Fees and Deposits	16	Communication Studies	91, 182
Advanced Placement Examinations	237	Community Program Delivery (Recreation)	75
Advanced Placement Tests (AP)	238	Computer Print Graphics	92
Adventure Sports Concentration	76	Computer Science	93, 96, 182
Advising Center	25	Computer Science Certificates	96
African-American Studies	81, 175	Cordts Physical Education Center	7
Alcohol/Drug Education Program	26	Counseling and Psychological Services	26
Americans with Disabilities Act	9	Course Changes	40
Application Dates	11	Course Descriptions	175
Applied Physics	147	Course Load	39
Art	82, 118, 176	Course Repetition and Grading	44
Art & Design	82	Courses of Study	47, 59, 79, 161
Art History	83	Creative Writing Concentration	111
Athletic Training	61	Credit by Examination	41, 237
Athletics	28	Criminal Justice	97, 185
Attendance at Another Institution	40, 45	CS Grade	43
Attendance Policy	40	Cultural Anthropology	99
Auditors	41	Cultural Events	27
Automobile Policy	24	Dance	100, 185
B.S. in Accounting/MBA Program	50	Dean's List	44
Bachelor of Arts Degree	31	Declaring a Major	4
Bachelor of Fine Arts Degree	31	Deferred Payment Plans	17
Bachelor of Science Degree	30	Degree Requirements	30
Bachelor of Science in Urban and Regional Planning	31	Dental Hygiene Preparation	101
Bachelor of Technical and Professional Studies Degree	31	Dentistry	137
Biology	84, 177	Departmental Examinations	237

Diagnostic Placement Tests	11	Grade Forgiveness Policy	13
Disability Support Services	25	Grade Grievance	246
Dismissal	45	Grade Points and Grade Point Averages	44
Distance Education	8	Grade Repeat	44
Distinctive Areas of Study	4	Grades	43
Diversity and Equal Opportunity	9	Graduate Studies	37
Diversity Center	25	Graduation	42
Double Counting GEP Courses	32	Graduation with Honors	42
Drop/Add	40	Grants	18, 20
Dual Degree in Engineering	104	Graphic Design	92, 125
Early Childhood/Elementary Education	66	Greek Organizations	28
Earth Science	102	Hagerstown Center (USM at Hagerstown)	8, 34
Economics	54, 55, 185	HallSTARS! Community Service Hall	24
Educational Professions	64, 187	Health & Physical Education	73, 204
Electrical Engineering	106, 190	Health Insurance and Fees	26
Elementary Education	68	Health Promotion	74
Engineering	104, 190	Health Science Administration	161
Engineering-Collaborative Programs	105	Health Services	26
English	110, 192	High School GPA	11
Enrollment of Undergraduates in Graduate Courses	37	History	126, 204
Environmental Analysis and Planning	112	History of FSU	10
Environmental Humanities	113, 195	Honor Societies	28
Environmental Policy	114, 195	Honors Program	162, 206
Environmental Science Concentration	86, 103	Hospitality Management & Tourism Concentration	77
Ethnobotany	115	Housing	24
Expenses	15	How to Undertake a Grade Grievance	246
Exercise & Sport Science	72	Humanities	205
Facilities	5	Human Resource Management	52
Faculty	230	Immunization	26
Federal Aid	18	Incompletes	43
Federal Loans	18	Information Systems	94
Federal Grants	18	Information Technology Management	164
Federal Work-Study Program	18	Integrated Business	53
Fees	15	Integrated Math/Science	222
Film Studies	117	Inter-College Programs	3, 161
Finance	52, 57, 195	Interdisciplinary Studies	34, 205
Financial Aid	18	International Area Studies	166
Financial Aid for Collaborative Engineering Program	20	International Baccalaureate Exams (IB)	238
Financial Services Minor	57	International Baccalaureate Programme	237
Fine Arts	118	International Business	168
First Year Admissions Procedures	11	International Development	169
First Year Experience	24	International Economics	169
Focuses	4	International Education	36
Foreign Languages & Literature	119, 196	International Politics	168
Forestry	121	International Student Services at FSU	37
French	119, 196	International Students	12, 27, 37
G.O.L.D. Generating Opportunities for Leadership	24	International Studies	166, 167, 206
Gaining Admission	11	Internships	35
General Coursework	38	Interpretive Biology and Natural History	88
General Education and Transfer Policy	242	Intersession	36
General Education Program (GEP)	32, 33	Journalism	128
General Management	52	K-12 Programs	69
Geography	122, 198	Lane University Center	7, 27
Getting to FSU	5	Law	129
Global Systems Analysis	123	Law and Society	129
Golden Identification Card	14	Law School Preparation	131

Leadership Studies	170, 206	President's Message	iii
Learning Assistance Programs	25	Procedures for Review of Alleged Arbitrary & Capricious Grading	246
Learning Communities	35	Professional Organizations	28
Leave of Absence	42	Professional Writing	111, 112
Liberal Studies	171, 206	Psychology	149, 219
Library	6	Public Administration	151
Limited Pass/Fail Option	43	Public Policy Economics	56
Literature	110, 193	Public Relations	152
Majors	3, 34	Quantitative Economics	56
Management	52, 58, 206	Readmission	13
Mandatory Fees	15	Recreation and Parks Management	75, 221
Mapping Science	123	Refund Policy & Schedule	17
Marketing	53, 58, 207	Regional Math/Science Center	25
Maryland State Scholarships	20	Registered Student Organizations	29
Mass Communication	132, 208	Registration	39
Mathematical Sciences	135	Religious Organizations	28
Mathematics	134, 209	Required Medical Form	26
Meal Plans	24	Residence Hall Association	24
Mechanical Engineering	108, 191	Residence Hall Contract	24
Media and Student Publications	27	Residence Hall Damage Deposit	16
Medical Technology Preparation	136	Residence Life	24
Medicine	137	Residency	14, 240
Mid-semester Warnings	43	Residency Status Appeals	242
Minimum Academic Progress Standards	45	Restricted Grade Forgiveness Policy for Returning Students	13
Minors	3, 34	Review of Student Records	46
Mission of the University	1	Room and Board	15
Music	138, 212	S.A.F.E. Office	26
NC Grade	43	SAT	11, 41
Networks Concentration	95	Satisfactory Progress Standards	20
Non-Graded Assessment Requirements	41	Scholarships	22
Nursing Preparation	141	Scholarships for Collaborative Engineering Program	23
Occupational Therapy Preparation	142	Scholarships for Entering Freshmen	22
Optometry	137	Secondary Programs	70
Orientation Requirement	31, 214	Secondary/Adult Generic Special Education	71
Other Instructional Sites	8	Senior Citizen Golden Identification Card	14
Part-time Program	36	Small Business/Entrepreneurship	53
Pass/Fail Option	43	Social Science	172, 223
Payment of Fees	17	Social Work	152, 223
Performing Arts Center	6	Sociology	154, 224
Personnel Register	227	Spanish	119, 197
Pharmacy Preparation	143	Special Academic Services	35
Philosophy	144, 214	Special Course Work Fees	16
Physical Education	73, 200	Special Departmental Exams	237, 240
Physical Education Center	7	Special Education	71
Physical Science	215	Special Instruction Fees	16
Physical Therapy Preparation	145	Special Interest Organizations	28
Physics	146, 215	Standards Governing Academic Probation and Dismissal	45
Placement Tests	11	State Aid	20
Policies	237	State Student Work	20
Policy on Student Residency Classification	14, 240	Statement on Liberal Education	1
Political Science	148, 217	Student Academic Responsibility	39
Post-Baccalaureate Study at the Undergraduate Level	37	Student Development Services	26
Pre-Dental	137	Student Government Association	27
Pre-Health Professions	137	Student Records Annual Notification	246
Pre-Medicine	137	Student Refund Policy for Title IV Recipients	17
Pre-Veterinary Medicine	137	Student Services	25

Student Support Services	25
Study Abroad	36
Study Abroad Programs	37
Substance-Free Floor	24
Summer School	36
Teacher Education Report Card	60
Teaching Certification	38
Testing	41
Theatre	156, 225
Therapeutic Recreation Concentration	78
Tourism Concentration (Recreation)	77
Transcripts of Records	41
Transfer Policies	13
Transfer Students	12
Tuition and Fees	15
Tuition and Fees for Collaborative Engineering Program	15
TuitionPay Plan	17
Undergraduate Degree Requirements	30
Undergraduate Institutional Learning Goals	2
University Children's Center	8
University History	10
University Organizations	28
University Programming Council	27
University System of Maryland at Hagerstown	8, 34
University Testing Program	26
University-wide Scholarships	22
Upward Bound	25
Urban and Regional Planning	157
USM Inter-institutional Registration	36
Veterans Affairs	25
Veterinary Medicine	137
Volunteerism and National Service	27
Wildlife & Fisheries	159
Withdrawal	41, 43
Withdrawal Grades	43
Women's Studies	160, 226
Women's Studies Resource Center	8
Work-Study Program	18, 20
Writing	192