2002-2003 Supplement to the 2001-2003 Undergraduate Catalog

This supplement describes changes in degree and major requirements that apply to you if you first enroll in college during the 2002-2003 academic year. All other provisions of the 2001-2003 Undergraduate Catalog still apply to you, and this supplement should be used in conjunction with that catalog.

Also included are updates and descriptions of new programs and courses available beginning in the 2002-03 academic year.

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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, tuition and fees, and course offerings may change during the period of your enrollment. Such changes will be published in official University publications such as the Undergraduate Catalog and Schedule Booklet, with prior notice of changes provided.

Frostburg State University is a constituent institution of the University System of Maryland.
# Academic Calendar 2002-2003

## Fall Semester 2002

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Testing - new non-registered students only</td>
<td>August 29</td>
</tr>
<tr>
<td>Advising and Registration - new non-registered students only</td>
<td>August 30</td>
</tr>
<tr>
<td>Residence halls open 9 a.m.</td>
<td>September 1</td>
</tr>
<tr>
<td>Labor Day - no classes</td>
<td>September 2</td>
</tr>
<tr>
<td>Classes begin</td>
<td>September 3</td>
</tr>
<tr>
<td>Late registration/drop/add</td>
<td>September 3 - 10</td>
</tr>
<tr>
<td>Last day to add classes</td>
<td>September 10</td>
</tr>
<tr>
<td>Parents' Weekend</td>
<td>October 4-6</td>
</tr>
<tr>
<td>Last day for removal of incomplete grades - undergrad. students</td>
<td>October 14</td>
</tr>
<tr>
<td>Mid-semester warnings distributed to undergraduate students</td>
<td>October 15</td>
</tr>
<tr>
<td>Homecoming</td>
<td>October 24-27</td>
</tr>
<tr>
<td>Last day to withdraw with W - undergraduate students</td>
<td>October 28</td>
</tr>
<tr>
<td>Spring 2003 &amp; Intersession registration, without payment</td>
<td>Nov. 4 - Nov. 22</td>
</tr>
<tr>
<td>Intersession registration, with payment</td>
<td>Nov. 25 - Dec. 13</td>
</tr>
<tr>
<td>Residence Halls close - 7 p.m.</td>
<td>Nov. 27</td>
</tr>
<tr>
<td>Thanksgiving Recess</td>
<td>Nov. 28 - Dec. 1</td>
</tr>
<tr>
<td>Residence Halls open - noon</td>
<td>December 1</td>
</tr>
<tr>
<td>Classes resume</td>
<td>December 1</td>
</tr>
<tr>
<td>Last day to withdraw from courses with W</td>
<td>December 13</td>
</tr>
<tr>
<td>Last day of classes</td>
<td>December 13</td>
</tr>
<tr>
<td>Reading Days/Common Finals</td>
<td>Dec. 14 - 15</td>
</tr>
<tr>
<td>Intersession course cancellations</td>
<td>December 16</td>
</tr>
<tr>
<td>Late Intersession registration, with late fees</td>
<td>Dec. 16 - Jan. 2</td>
</tr>
<tr>
<td>Final Exams</td>
<td>Dec. 16 - 20</td>
</tr>
<tr>
<td>Residence halls close 7 p.m.</td>
<td>December 20</td>
</tr>
<tr>
<td>Commencement</td>
<td>December 21</td>
</tr>
</tbody>
</table>

## Spring Semester 2003

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Testing, new non-registered students only</td>
<td>January 24</td>
</tr>
<tr>
<td>Residence halls open 9 a.m.</td>
<td>January 26</td>
</tr>
<tr>
<td>Advising and Registration - new non-registered students only</td>
<td>January 27</td>
</tr>
<tr>
<td>Classes begin</td>
<td>January 28</td>
</tr>
<tr>
<td>Late registration/drop/add</td>
<td>Jan. 28-Feb.4</td>
</tr>
<tr>
<td>Last day to add classes</td>
<td>February 4</td>
</tr>
<tr>
<td>Summer school registration (without late fees)</td>
<td>March 3 - May 9</td>
</tr>
<tr>
<td>Last day for removal of incomplete grades - undergraduate students</td>
<td>March 10</td>
</tr>
<tr>
<td>Mid-semester warnings distributed to undergraduate students</td>
<td>March 11</td>
</tr>
<tr>
<td>Last day to withdraw from courses with W - undergraduate students</td>
<td>March 21</td>
</tr>
<tr>
<td>Residence Halls close - 7 p.m.</td>
<td>March 21</td>
</tr>
<tr>
<td>Spring Break</td>
<td>March 22-30</td>
</tr>
<tr>
<td>Residence Halls open - 12 noon</td>
<td>March 30</td>
</tr>
<tr>
<td>Classes resume</td>
<td>March 31</td>
</tr>
<tr>
<td>Fall 2003 registration</td>
<td>April 7 - 25</td>
</tr>
<tr>
<td>Late registration for Summer, with late fees</td>
<td>May 12 - 29</td>
</tr>
<tr>
<td>Summer sessions course cancellations</td>
<td>May 14</td>
</tr>
<tr>
<td>Last day to withdraw from courses with W</td>
<td>May 14</td>
</tr>
<tr>
<td>Last day of classes</td>
<td>May 14</td>
</tr>
<tr>
<td>Reading Day</td>
<td>May 15</td>
</tr>
<tr>
<td>Final Exams/Common Exam</td>
<td>May 16</td>
</tr>
<tr>
<td>Common Exams</td>
<td>May 17</td>
</tr>
<tr>
<td>Reading Day</td>
<td>May 18</td>
</tr>
<tr>
<td>Final Exams</td>
<td>May 19-22</td>
</tr>
<tr>
<td>Residence halls close 7 p.m.</td>
<td>May 22</td>
</tr>
<tr>
<td>Honors Convocation</td>
<td>May 23</td>
</tr>
<tr>
<td>Commencement</td>
<td>May 24</td>
</tr>
</tbody>
</table>

## Intersession 2003

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residence halls open, noon</td>
<td>Jan. 1</td>
</tr>
<tr>
<td>Classes begin</td>
<td>Jan. 2</td>
</tr>
<tr>
<td>Martin Luther King Day, no classes</td>
<td>Jan. 20</td>
</tr>
<tr>
<td>Last day of classes</td>
<td>Jan. 24</td>
</tr>
</tbody>
</table>

## Summer Sessions 2003

<table>
<thead>
<tr>
<th>Session</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Summer Session</td>
<td>May 27-July 3</td>
</tr>
<tr>
<td>Second Summer Session</td>
<td>July 4-Aug. 13</td>
</tr>
<tr>
<td>Internship Session</td>
<td>May 27-Aug. 19</td>
</tr>
<tr>
<td>MBA Session</td>
<td>May 27-Aug. 7</td>
</tr>
</tbody>
</table>
Expenses 2002-2003

Replaces page 14 of the 2001-2003 Undergraduate Catalog

This information applies to the academic year 2002-2003 only. All charges for tuition, room and board, and other fees and expenses are subject to change at any time by Frostburg State University and/or the Board of Regents of the University System of Maryland.

Tuition

Tuition for legal residents of Maryland is $1,816 per semester plus all other applicable fees at the University. Tuition for out-of-state students is $4,719 per semester plus all other applicable fees at the University. Tuition for residents of the contiguous counties* is $3,632 per semester plus all other applicable fees at the University.

Evening and part-time tuition is $150 per credit hour for resident undergraduate students, $266 per credit hour for non-resident undergraduate students, $197 per credit hour for resident graduate students, and $229 per credit hour for non-resident graduate students.

Summer tuition is $150 per credit hour for resident undergraduate students, $266 per credit hour for non-resident undergraduate students, $197 per credit hour for resident graduate students and $229 per credit hour for non-resident graduate students.

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 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 $5,010 per year to $6,178 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 per credit hour 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 $186 per semester for full-time students and a $19 per credit hour fee for part-time students is used

<table>
<thead>
<tr>
<th>Undergraduate Tuition &amp; Fees 2002-2003</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuition - full time (12 cr. or more)</strong></td>
</tr>
<tr>
<td>Maryland Residents</td>
</tr>
<tr>
<td>Out-of-State Residents</td>
</tr>
<tr>
<td>Contiguous County Residents</td>
</tr>
<tr>
<td><strong>Mandatory Fees</strong></td>
</tr>
<tr>
<td>Activities Fee</td>
</tr>
<tr>
<td>Athletic Fee</td>
</tr>
<tr>
<td>Auxiliary Facilities Fee</td>
</tr>
<tr>
<td>Student Union Operating Fee</td>
</tr>
<tr>
<td>Technology Fee</td>
</tr>
<tr>
<td>Transportation Fee</td>
</tr>
<tr>
<td>Total Fees</td>
</tr>
<tr>
<td><strong>Total Tuition and Fees</strong></td>
</tr>
<tr>
<td>Maryland Residents</td>
</tr>
<tr>
<td>Out-of-State Residents</td>
</tr>
<tr>
<td>Contiguous County* Residents</td>
</tr>
<tr>
<td><strong>Room Charges</strong></td>
</tr>
<tr>
<td>Frederick, Westminster</td>
</tr>
<tr>
<td>double</td>
</tr>
<tr>
<td>All other halls</td>
</tr>
<tr>
<td>double</td>
</tr>
<tr>
<td>small single</td>
</tr>
<tr>
<td>large single</td>
</tr>
<tr>
<td><strong>Board Charges</strong></td>
</tr>
<tr>
<td>Carte Blanche with $200 bonus bucks</td>
</tr>
<tr>
<td>Block Plan -130 meals w/$100 bonus bucks</td>
</tr>
<tr>
<td>14-meal with $100 bonus bucks</td>
</tr>
<tr>
<td>12-meal with $250 bonus bucks</td>
</tr>
<tr>
<td>10-meal with $75 bonus bucks</td>
</tr>
<tr>
<td>Straight 10-meal</td>
</tr>
<tr>
<td><strong>Total tuition, fees, room and board</strong></td>
</tr>
<tr>
<td>Maryland Residents</td>
</tr>
<tr>
<td>Contiguous County* Residents</td>
</tr>
</tbody>
</table>

*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.

**based on $2,906 room rate and $2,776 board rate

All fees subject to change.
to support the University’s program in intercollegiate and intramural athletics.

Auxiliary Facilities Fee: An auxiliary facilities fee of $65 per semester for full-time students and $6 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 $6 per credit hour for part-time students is charged for operating expenses of the Lane Center.

Technology Fee: A Technology fee of $60 per semester for full-time students or $8 per credit hour for part-time students is collected to fund technology initiatives for student enhancement.

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 and Expenses
All other fees, payment and refund procedures remain as stated in the 2001-03 Undergraduate Catalog.

All fees subject to change at any time by action of the Board of Regents of the University System of Maryland.

Admission
The following corrections, changes and additions are effective Fall 2002:

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, Algebra II, and Geometry; and 2 units of a foreign language or, in Maryland, 2 units of advanced technology (correction of wording in 2001 catalog).

Accreditation

Accreditation update:

- Teacher Education Programs -- Accredited by the National Council for the Accreditation of Teacher Education (NCATE) under the new May 2000 performance standards, approved by the Maryland State Department of Education (MSDE) as consistent with the Maryland Redesign of Teacher Education, and recognized by 14 professional content associations for compliance with national standards.
Courses of Study

Actuarial Science

Major

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 101 Community Health Promotion
   c. HEED 103 Foundations of Exercise & Sport Science
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.

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

- 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:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall GPA</td>
<td>25</td>
</tr>
<tr>
<td>Prerequisite GPA</td>
<td>25</td>
</tr>
<tr>
<td>Faculty Recommendations</td>
<td>20</td>
</tr>
<tr>
<td>Interview</td>
<td>15</td>
</tr>
<tr>
<td>Application/Essay</td>
<td>15</td>
</tr>
</tbody>
</table>

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 provisionally admitted 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/Minor in Athletic Training

Major

1. HPE Courses:

   (55 hours)

   HEED 101 Community Health Promotion
   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 Clinical Experiences in Athletic Training I
   HEED 223 Clinical Experiences in Athletic Training II
   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 III
   HEED 323 Clinical Experiences in Athletic Training IV
   HEED 408 Therapeutic Modalities in Sports Medicine
   HEED 422 Clinical Experiences in Athletic Training V
   HEED 423 Clinical Experiences in Athletic Training VI
   PHEC 163 Strength Training & Conditioning
   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 413 Rehabilitation Techniques in Sports Medicine
   PHEC 435 Physical Activity for the Older Adult

2. Courses in Other Departments:

   (27 hours)

   BIOL 149 General Biology (GEP LAC Group C)
   BIOL 201 Anatomy & Physiology I
   BIOL 202 Anatomy & Physiology II
   MATH 209 Elements of Applied Probability and Statistics (GEP BR Math)
   PHIL 101 Introduction to Philosophy (GEP LAC Group B)
   PHIL 313 Biomedical Ethics
   PSYC 150 General Psychology (GEP LAC Group D)
   PSYC 430 Health Psychology
   PSYC 435 Physical Activity for the Older Adult

Change in course credit hours:

3. Biotechnology Option:

   BIOL 438 Biotechnology Laboratory (3 hours)
Economics

Major

Concentrations in
Business Economics
Public Policy Economics
Quantitative Economics

Minor

Professors:
Dalton, Mizak, Neral

Associate Professors:
Stair (Chair)

Assistant Professors:
Kiriazis, Rossi

All economics majors 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 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 Business Economics is recommended for students who intend to seek employment in the private sector and/or pursue graduate study in business.

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.

Summary of Requirements for Major/Minor in Economics

<table>
<thead>
<tr>
<th>Major</th>
<th>Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Required Core Courses in Economics:</strong></td>
<td><strong>1. Required Core Courses in Economics:</strong></td>
</tr>
<tr>
<td>(15 hours)</td>
<td>(12 hours)</td>
</tr>
<tr>
<td>ECON 201/211* Principles of Econ. (Macro) (GEP LAC Group D)</td>
<td>ECON 201/211* Principles of Econ. (Macro) (GEP LAC Group D)</td>
</tr>
<tr>
<td>ECON 202/212* Principles of Econ. (Micro)</td>
<td>ECON 202/212* Principles of Econ. (Micro)</td>
</tr>
<tr>
<td>ECON 351* Intermediate Macro-Economics</td>
<td>ECON 351* Intermediate Macro-Economics</td>
</tr>
<tr>
<td>ECON 491* Seminar in Economics</td>
<td></td>
</tr>
<tr>
<td><strong>2. Required Core Courses in Other Departments:</strong></td>
<td><strong>2. Required Core Courses in Other Departments:</strong></td>
</tr>
<tr>
<td>(3 hours)</td>
<td>(3 hours)</td>
</tr>
<tr>
<td><strong>3. Other Courses:</strong></td>
<td><strong>3. Other Courses:</strong></td>
</tr>
<tr>
<td>(21-45 hours)</td>
<td>(9 hours)</td>
</tr>
<tr>
<td>Majors must choose from among the major in economics without specialized concentration, the business economics concentration, the public policy economics concentration or the quantitative economics concentration.</td>
<td>MATH 226* Calculus I (GEP BR Math) or MATH 220* Calculus for Applications I or MATH 106* Algebra with Calculus for Business</td>
</tr>
</tbody>
</table>

Requirements for Major in Economics

without specialized concentration

1. Core Courses: (18 hours)
   Required of all Economics majors; listed above.

2. Other Economics Courses: (18 hours)
   ECON 300 History of Economic Thought
   Students must also complete 15 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 226* Calculus I (GEP BR Math) 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 Business Economics

1. Core Courses: (18 hours)
   Required of all Economics majors; listed above.

2. Other Economics Courses: (15 hours)
   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

   Select two of the following courses:
   ECON 301 Labor Economics
   ECON 306 Money and Banking
   ECON 307 Government, Business, and Public Policy
   ECON 313 Economics of Race and Gender
   ECON 408 Urban and Regional Economics
   ECON 440 Introduction to Game Theory
   ECON 492 Internship Research Paper
   ECON 494 Field Experience in Economics

3. Courses in Other Departments: (27-30 hours)
   ACCT 201* Introductory Accounting I
   ACCT 202 Introductory Accounting II
   BUAD 351 Management of Organizations
   BUAD 361 Principles of Marketing
   BUAD 370 Corporate Finance
   COSC 100/110 Introduction to Computer Science
   COSC 220 Introduction to Software Applications
   PHIL 314 Business Ethics
   MATH 226* Calculus I (GEP BR Math)
   or MATH 220* Calculus for Applications I
   or MATH 106* Algebra with Calculus of Business
   and ECON 450* Quantitative Economics

Requirements for Major in Economics with Concentration in Quantitative Economics

1. Core Courses: (18 hours)
   Required of all Economics majors; listed above.

2. Other Economics Courses: (21 hours)
   ECON 300 History of Economic Thought
   or ECON 303 American Economic History
   ECON 407 Business Cycles and Forecasting
   ECON 450 Quantitative Economics
   ECON 460 Introduction to Econometrics
   or MATH 481 Applied Regression Analysis

   Students must complete at least 6 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: (6 hours)
   MATH 226* Calculus I (GEP BR Math)
   MATH 350 Matrix Algebra

Requirements for Major in Economics with Concentration in Public Policy Economics

1. Core Courses: (18 hours)
   Required of all Economics majors; listed above.

2. Other Economics Courses: (24 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 313 Economics of Race and Gender
   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 440 Introduction to Game Theory
   ECON 492 Internship Research Paper
   ECON 494 Field Experience in Economics

3. Courses in Other Departments: (3-6 hours)
   MATH 226* Calculus I (GEP BR Math)
   or MATH 220* Calculus for Applications I
   or MATH 106* Algebra with Calculus of 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.
Electrical Engineering

Change in requirements:

| Hours Required in Engineering: | 52 |
| Hours Required in Other Departments: | 56 |
| Total Hours Required: | 108 |

**Summary of Pre-Engineering Requirements**

2. Required Courses in Other Departments

(40 hours)

- CHEM 133 General Chemistry for Engineers *(preferred)*
- or CHEM 102 General Chemistry II

**Summary of Engineering Requirements**

1. Advanced Engineering Courses:

(23 hours)

Add to list of required courses:

- ENEE 408 Capstone Design Project

3. Elective Courses in Electrical Engineering:

(11 hours)

- Must include two credits of advanced laboratory courses.

Change in requirements:

<table>
<thead>
<tr>
<th>For Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours Required in Engineering:</td>
</tr>
<tr>
<td>Hours Required in Other Departments:</td>
</tr>
<tr>
<td>Total Hours Required:</td>
</tr>
</tbody>
</table>

**Summary of Pre-Engineering Requirements**

2. Required Courses in Other Departments

(40 hours)

- CHEM 133 General Chemistry for Engineers *(preferred)*
- or CHEM 102 General Chemistry II

**Summary of Engineering Requirements**

1. Required Engineering Courses

Course number change:

- ENME 350 Electronics and Instrumentation I

Change in credit hours:

<table>
<thead>
<tr>
<th></th>
<th>Health Fitness</th>
<th>Health Promotion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours Required in HPE:</td>
<td>49</td>
<td>44</td>
</tr>
<tr>
<td>Hours Required in Other Departments:</td>
<td>24</td>
<td>27</td>
</tr>
<tr>
<td>Total Hours Required:</td>
<td>73</td>
<td>71</td>
</tr>
</tbody>
</table>

**Summary of Requirements for Major in Exercise and Sport Science**

1. Discipline Core Courses

(23 hours)

- Beginning Fall 2002, the concentration in athletic training is discontinued. Interested students should see the new major in Athletic Training in this supplement. You must major in athletic training in order to qualify to take the certification examination.
Interpretive Biology and Natural History

Coordinator:
Ronald Barry, Professor, Department of Biology

For Major

<table>
<thead>
<tr>
<th>Hours Required in Biology:</th>
<th>44-55</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours Required in Other Departments:</td>
<td>23-30</td>
</tr>
<tr>
<td>Total Hours Required:</td>
<td>74-78</td>
</tr>
</tbody>
</table>

Summary of Requirements for Major in Interpretive Biology and Natural History

Major

1. **Introductory Level Courses:**

   *(8 hours)*
   
   BIOL 149 General Biology I *(GEP LAC 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)*

3. **Electives:**

   Select 11-12 hours from among the following:
   
   BIOL 305 Dendrology
   
   BIOL 311 Morphology of Thallophytes
   
   BIOL 312 Morphology of Embryophytes
   
   BIOL 402 Evolution
   
   BIOL 417 Ichthyology
   
   BIOL 422 Herpetology
   
   BIOL 425 Forest Science
   
   BIOL 423 Mammalogy
   
   BIOL 430 Introductory Limnology
   
   GEOG 308 Advanced Historical Geology
   
   GEOG 445 Biogeography

4. **Required Courses in Other Departments**

   *(23 hours)*
   
   CHEM 101 General Chemistry I *(GEP LAC Group C)*
   
   CMST 102/112 Introduction to Human Communication
   
   COSC 100/110 Introduction to Computer Science
   
   GEOG 103/113 Physical Geography *(GEP LAC Group C)*
   
   MATH 209/219 Elements of Applied Probability and Statistics *(GEP BR Math)*
   
   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
Geography

Urban Concentration

- Beginning Fall 2002, the urban concentration in geography is discontinued. Interested students should see the new Bachelor of Science in Urban and Regional Planning degree program in this supplement. The new program incorporates new professional education standards for planners.

Psychology

Change in requirements:

- 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.

Social Work

Change in graduation requirements:

2. Cumulative GPA of at least 2.3 both overall and in courses required for the major

Sociology

Correction of Requirements Listed in the Fall 2001-2003 Catalog:

The changes and clarifications below apply to students who began college in 2001 or 2002. All other requirements are as listed in the 2001-03 catalog.

Applied Social Research Track:

2. Methods and Theory
   (12 hours)
   SOCI 310 Statistics for Social Science
   SOCI 311 Basic Research Methods
   SOCI 312 Applied Social Research
   SOCI 450 Classical Sociological Theory

4. Internship Requirement
   (9-15 hours required)
   SOCI 492 Internship Seminar
   SOCI 495 Internship

Minor:

3. Distribution Within Department
   (12 hours)
   2 additional courses in one subfield;
   1 course in each of the others
Urban and Regional Planning

Major

Coordinator:
Henry Bullamore, AICP, Professor, Department of Geography

Participating Faculty Professors:
Caupp (Geography), Dalton (Economics), Neral (Economics), Precht (Geography), B. Wright (Social Work)

Associate Professors:
J. Bambacus (Political Science), Crosby (Sociology), Kauffman (HPER), O’Rorke (Political Science), Powell (Social Work), Stair (Economics), G. White (Geography)

Assistant Professors:
Hartlaub (Political Science), Kessler (Geography), Moore (Sociology), Saku (Geography)

- This is an interdisciplinary program.
- See the Department of Geography for advising.
- You may not minor in Urban and Regional Planning.
- 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 below, degree candidates must meet all requirements listed in the current FSU Undergraduate Catalog for the Bachelor of Science.

Summary of Requirements for Major in Urban and Regional Planning

<table>
<thead>
<tr>
<th>For Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours Required in Geography:</td>
</tr>
<tr>
<td>Hours Required in Other Departments:</td>
</tr>
<tr>
<td>Total Hours Required:</td>
</tr>
</tbody>
</table>

1. Introductory Level Courses:
(25 hours)
CMST102 Introduction to Human Communication or CMST 122 Introduction to Public Speaking
ECON 202 Principles of Economics (Micro)
GEOG 103 Physical Geography (GEP LAC Group C)
GEOG 104 Human Geography (GEP LAC Group D)
GEOG 275 Introduction to Spatial Analysis
MATH 209 Elements of Applied Probability and Statistics (GEP BR Math)
POSC 110 Introduction to American Politics (GEP LAC Group D)
SOCI 100 Introduction to Sociology (GEP LAC Group D)

2. Professional Core Courses:
(33 hours)
ECON 404 Public Finance
ENGL 338 Technical Writing or ENGL 308 Social Sciences Advanced Composition or ENGL 310 General Advanced Composition (GEP BR Adv. Comp.)
GEOG 310 Fundamentals in the Mapping Sciences
GEOG 317 Geographic Information Systems
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
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 Conservation of Natural Resources
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 305 Racial and Cultural Minorities
SOCI 322 Demography
SOWK 370 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 Advanced Remote Sensing Techniques  
GEOG 417 Advanced Geographic Information Systems

**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.

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**Women’s Studies**

**Minor**

Add to list of electives from which you may select:

2. **Elective Courses:**
   - SOCI 364  Marriage and Family Relationships
   - SOCI 366  Social Inequality
New and revised course descriptions

Listed alphabetically by department

African American Studies

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.

Biology

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 only. Prerequisite: BIOL 149.

BIOL 340 General Ecology 4 cr.
Prerequisite: BIOL 150, CHEM 102 (or CHEM 101 and permission of the instructor), MATH 209.

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.

Chemistry

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 semester. Prerequisites: CHEM 101 or permission of instructor.

Economics

Title changes:

ECON 303 American Economic History 3 cr.
ECON 307 Government, Business, and Public Policy 3 cr.
ECON 404 Public Sector Economics 3 cr.
ECON 405 Economics of Developing Countries 3 cr.
ECON 460 Introduction to Econometrics 3 cr.
ECON 440 Introduction to Game Theory 3 cr.
An introduction to the theory of games and its application to the analysis of strategic behavior in various decision-making environments. Fall of odd-numbered years. Prerequisites: ECON 201 and ECON 202.

Educational Professions

ELED 494 Teaching Internship I: N-8 6 cr.
Change in course title only.

Engineering

ENEE 204 Basic Circuit Theory 3 cr.
Prerequisite: PHYS 262. Corequisite: MATH 432.

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.

ENME 350 Electronics and Instrumentation I 3 cr.
Not open to students with credit for former ENME 252.

English

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.

Foreign Languages & Literature

Literature in Translation

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 hours lecture and two hours lab. Variable.

French

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.

Spanish

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 MDFL 407. Variable.

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 lexicum. Variable. Prerequisites: Three 300-level Spanish courses or 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.
Geography
GEOG 425 Geography of Transportation 3 cr.
Prerequisites: GEOG 104 or permission of instructor.

Health, Physical Education & Recreation
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 only. Prerequisite: HEED 103.

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.

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.

Music
MUSA 490 Senior Recital
Correction of course abbreviation only.

Physics
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.

Psychology
PSYC 301 Research Methods II 3 cr.
Prerequisites: PSYC 300 with a "C" or better and completion of PSYC 297 with a "P" grade.

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. Summer. Prerequisite: PSYC 150.

Social Work
SOWK 495 Internship in Social Work 12 cr.
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.

Theatre
THEA 206 Modern American Drama 3 cr.
Also offered as ENGL 206.
FSU at a glance

Majors
Accounting
Actuarial Science
Art & Design
Athletic Training
Biology
Business Administration
Business Education
Chemistry
Communication Studies
Computer Science
Dance
Early Childhood/Elementary Education
Earth Science
Economics
Electrical Engineering
Elementary Education
English
Environmental Analysis & Planning
Exercise & Sport Science
Foreign Languages & Literature
Geography
Health & Physical Education
Health Science Administration
History
International Studies
Interpretive Biology & Natural History
Justice Studies
Liberal Studies
Mass Communication
Mathematics
Mechanical Engineering
Music
Philosophy
Physics
Political Science
Psychology
Recreation & Parks Management
Social Science
Social Work
Sociology
Theatre
Urban & Regional Planning
Wildlife & Fisheries

Pre-Professional Programs
BS Chemistry/ Doctor of Pharmacy
Dental Hygiene
Dentistry
Law
Medical Technology
Medicine
Nursing
Occupational Therapy
Optometry
Pharmacy
Physical Therapy
Veterinary Medicine

Notes