2000-2001 Supplement
to the 1999-2001 Undergraduate Catalog

This supplement describes changes in degree and major requirements that apply to you if you first enroll in college during the 2000-2001 academic year. All other provisions of the 1999-2001 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 2000-01 academic year.

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## Academic Calendar 2000-2001

### Fall Semester '00
- **Testing - new non-registered students only**  
  Aug. 28
- **Advising/registration - new non-registered students only**  
  Aug. 29
- **Residence halls open - 9 a.m.**  
  Aug. 30
- **Classes begin**  
  Aug. 31
- **Late registration/drop/add**  
  Aug. 31 - Sept. 7
- **Labor Day - no classes**  
  Sept. 4
- **Last day to add classes**  
  Sept. 7
- **Parents' Weekend**  
  Sept. 22-24
- **Homecoming**  
  Oct. 6-8
- **Last day for grad. students to withdraw with "W"**  
  Oct. 11
- **Last day for undergrads to remove incompletes**  
  Oct. 11
- **Mid-term warnings distributed to undergrads**  
  Oct. 12
- **Last day for undergrads to withdraw with "W"**  
  Oct. 25
- **Spring '01 & Intersession regis., w/out payment**  
  Oct. 30 - Nov. 17
- **Intersession registration, with payment**  
  Nov. 20 - Dec. 11
- **Residence Halls close - 7 p.m.**  
  Nov. 22
- **Thanksgiving Recess**  
  Nov. 23-26
- **Residence Halls open - 12 noon**  
  Nov. 26
- **Classes resume**  
  Nov. 27
- **Last day for grad. students to remove incompletes**  
  Dec. 11
- **Last day to withdraw from classes with "WF"**  
  Dec. 11
- **Last day of classes**  
  Dec. 11
- **Intersession course cancellations**  
  Dec. 12
- **Late regis. for Intersession, with late fees**  
  Dec. 12 - Jan. 2
- **Reading Days/Finals for graduating students (opt.)**  
  Dec. 12-13
- **Final Exams/Common Finals**  
  Dec. 14-15
- **Commencement/Common Final Exams**  
  Dec. 16
- **Reading Day**  
  Dec. 17
- **Final Exams**  
  Dec. 18-20
- **Residence halls close - 10 a.m.**  
  Dec. 21

### Spring Semester '01
- **Testing - new non-registered students only**  
  Jan. 25
- **Advising/registration - new non-registered students only**  
  Jan. 26
- **Residence halls open - 9 a.m.**  
  Jan. 28
- **Classes begin**  
  Jan. 29
- **Late registration/drop/add**  
  Jan. 29 - Feb. 2
- **Last day to add classes**  
  Feb. 2
- **Summer School registration w/out late fees**  
  Mar. 5 - May 11
- **Last day for undergrads to remove incomplete grades**  
  Mar. 9
- **Last day for grad. students to withdraw with "W"**  
  Mar. 9
- **Mid-term warnings distributed to undergrads**  
  Mar. 12
- **Residence Halls close - 7 p.m.**  
  Mar. 16
- **Spring Break**  
  Mar. 17-25
- **Residence Halls open - 12 p.m.**  
  Mar. 25
- **Classes resume**  
  Mar. 26
- **Last day for undergrads to withdraw with "W"**  
  Mar. 30
- **Fall 2001 registration**  
  April 2 - 20
- **Last regis. for summer w/late fees**  
  May 12 - 31
- **Summer sessions course cancellations**  
  May 15
- **Last day for grad. students to remove incompletes**  
  May 15
- **Last day to withdraw from classes with "WF"**  
  May 15
- **Last day of classes**  
  May 15
- **Reading Day**  
  May 16
- **Final Exams/Common Exams**  
  May 17 - 18
- **Common Exams**  
  May 19
- **Reading Day**  
  May 20
- **Final Exams**  
  May 21 - 23
- **Residence halls close 10 a.m.**  
  May 24
- **Honors Convocation 7:30 p.m.**  
  May 25
- **Commencement**  
  May 26

### Intersession '01
- **Residence halls open 12 p.m.**  
  January 1
- **Classes begin**  
  January 2
- **Martin Luther King Day, no classes**  
  January 15
- **Last day of classes**  
  January 26

### Summer Sessions '01
- **Memorial Day (no classes)**  
  May 28
- **Residence halls open 12 p.m.**  
  May 28
- **First Summer Session**  
  May 29 - July 2
- **MBA Session**  
  May 29 - August 9
- **Internship Session**  
  May 29 - August 21
- **Residence halls close 7 p.m.**  
  July 2
- **Independence Holiday (no classes)**  
  July 3 - 8
- **Residence halls open 12 p.m.**  
  July 8
- **Second Summer Session**  
  July 9 - August 10
- **Residence halls close 7 p.m.**  
  August 10

### Fall '01
- **Classes begin**  
  August 30

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*Calendar subject to change without notice.*
Expenses 2000-2001

Replaces page 13 of the 1999-01 Undergraduate Catalog

Expenses

This information applies to the academic year 2000-2001 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 $1,671 per semester plus all other applicable fees at the University. Tuition for out-of-state students is $4,246 per semester plus all other applicable fees at the University.

Evening and part-time tuition is $138 per credit hour for resident undergraduate students, $244 per credit hour for non-resident undergraduate students, $180 per credit hour for resident graduate students, and $208 per credit hour for non-resident graduate students.

Summer tuition is $138 per credit hour for resident undergraduate students, $244 per credit hour for non-resident undergraduate students, $180 per credit hour for resident graduate students, and $208 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 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 $4,674 per year to $5,790 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 semester 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 $165 per semester for full-time students and a $16 per credit hour fee for part-time students is used to support the University’s program in inter-

Undergraduate Tuition & Fees 2000-2001

<table>
<thead>
<tr>
<th>Tuition - full time (12 cr. or more)</th>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maryland Residents</td>
<td>$1,671</td>
<td>$1,671</td>
<td>$3,342</td>
</tr>
<tr>
<td>Out-of-State Residents</td>
<td>4,246</td>
<td>4,246</td>
<td>8,492</td>
</tr>
</tbody>
</table>

Mandatory Fees

<table>
<thead>
<tr>
<th>Activity</th>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activities Fee</td>
<td>$65</td>
<td>$65</td>
<td>$130</td>
</tr>
<tr>
<td>Athletic Fee</td>
<td>165</td>
<td>165</td>
<td>330</td>
</tr>
<tr>
<td>Auxiliary Facilities Fee</td>
<td>65</td>
<td>65</td>
<td>130</td>
</tr>
<tr>
<td>Student Union Operating Fee</td>
<td>90</td>
<td>90</td>
<td>180</td>
</tr>
<tr>
<td>Transportation Fee</td>
<td>10</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>Total Fees</td>
<td>$395</td>
<td>$395</td>
<td>$790</td>
</tr>
</tbody>
</table>

Total Tuition and Fees

<table>
<thead>
<tr>
<th>Maryland Residents</th>
<th>$2,066</th>
<th>$2,066</th>
<th>$4,132</th>
</tr>
</thead>
<tbody>
<tr>
<td>Out-of-State Residents</td>
<td>4,641</td>
<td>4,641</td>
<td>9,282</td>
</tr>
</tbody>
</table>

Room Charges

<table>
<thead>
<tr>
<th>Location</th>
<th>Type</th>
<th>Room Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frederick, Westminster</td>
<td>double</td>
<td>$1,356</td>
</tr>
<tr>
<td>All other halls</td>
<td>double</td>
<td>1,325</td>
</tr>
<tr>
<td></td>
<td>single</td>
<td>1,463</td>
</tr>
<tr>
<td></td>
<td>small single</td>
<td>1,587</td>
</tr>
<tr>
<td></td>
<td>large single</td>
<td>1,587</td>
</tr>
</tbody>
</table>
| Board Charges
| Carte Blanche with $200 bonus bucks | $1,308    |
| Block Plan -150 meals w/$100 bonus bucks | 1,264    |
| 14-meal with $100 bonus bucks | 1,196    |
| 12-meal with $250 bonus bucks | 1,298    |
| 10-meal with $75 bonus bucks | 1,093    |
| Straight 10-meal  | 1,012      |

Total tuition, fees, room and board

<table>
<thead>
<tr>
<th>Maryland Residents</th>
<th>$4,730</th>
<th>$4,730</th>
<th>$9,460</th>
</tr>
</thead>
<tbody>
<tr>
<td>Out-of-State Residents</td>
<td>7,305</td>
<td>7,305</td>
<td>14,610</td>
</tr>
</tbody>
</table>

*based on $2,712 room rate and $2,616 board rate

All fees subject to change.
collegiate 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 $90 per semester for full-time students and $10 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.

**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-$100 for students enrolled in specific laboratory courses and courses utilizing the Academic Computing facility are collected to cover laboratory supplies, equipment, software.

**Student Teaching Interns** pay a $250.00 fee for participation in the internship.

**Special Instruction Fees**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting (ACCT 305)</td>
<td>$25</td>
</tr>
<tr>
<td>Art (ART 202, 402)</td>
<td>$20</td>
</tr>
<tr>
<td>Art (ART 207, 221, 240, 440, 232, 235, 435, 212, 412, 300)</td>
<td>$10</td>
</tr>
<tr>
<td>Biology (BIOL 109, 149)</td>
<td>$20</td>
</tr>
<tr>
<td>Business Admin. (BUAD 320)</td>
<td>$25</td>
</tr>
<tr>
<td>Chemistry (CHEM 100, 101)</td>
<td>$20</td>
</tr>
<tr>
<td>Computer Sci. (COSC 100, 110, 220, 230)</td>
<td>$25</td>
</tr>
<tr>
<td>Geography (GEOG 103, 113)</td>
<td>$20</td>
</tr>
<tr>
<td>Mathematics (MATH 102)</td>
<td>$100</td>
</tr>
<tr>
<td>Physical Sci. (PHSC 101, 203)</td>
<td>$20</td>
</tr>
<tr>
<td>Physics (PHYS 215, 261)</td>
<td>$20</td>
</tr>
<tr>
<td>Sociology (SOCI/SOWK 310)</td>
<td>$25</td>
</tr>
</tbody>
</table>

**Other Fees and Expenses**
All other fees, payment and refund procedures remain as stated in the 1999-01 Undergraduate Catalog.

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

### Policies

#### Credit-by-Exam and Other Non-traditional Learning

#### Advanced Placement Tests
Add the following to the list of Advanced Placement Tests currently on page 180 of the 1999-2001 Undergraduate Catalog. Minimum score required is 3, unless otherwise noted.

<table>
<thead>
<tr>
<th>Title of Test</th>
<th>FSU Course Equivalent(s)</th>
<th>Credit Hours Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL/LANG/COMP</td>
<td>Score of 3 or 4:</td>
<td>ENGL 101 Freshman Composition 3</td>
</tr>
<tr>
<td></td>
<td>Score of 5:</td>
<td>ENGL 111 Honors: Freshman Composition 3</td>
</tr>
<tr>
<td>ENGL/LIT/COMP</td>
<td>Score of 3:</td>
<td>ENGL 101 Freshman Composition 3</td>
</tr>
<tr>
<td></td>
<td>Score of 4:</td>
<td>ENGL 101 Freshman Composition 3</td>
</tr>
<tr>
<td></td>
<td>Score of 5:</td>
<td>ENGL 111 Honors: Freshman Composition 3</td>
</tr>
<tr>
<td></td>
<td>and ENGL 150 Intro to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL/LIT</td>
<td>ENGL 150 Intro to Literature</td>
<td>3</td>
</tr>
<tr>
<td>FREN/LANG</td>
<td>FREN 101 Basic Elem. of French I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FREN 102 Basic Elem. of French II</td>
<td>3</td>
</tr>
<tr>
<td>SPAN/LANG</td>
<td>SPAN 101 Basic Elem. of Spanish I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SPAN 102 Basic Elem. of Spanish II</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Special Departmental Exams
Below are additions to the list of special departmental examinations currently listed on page 181 of the Undergraduate Catalog. Students who believe they qualify for credit by exam must take the examination prior to signing up for the course. See the current Schedule Booklet for specific test dates or contact the department offering the exam for specific information.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 386</td>
<td>Drugs &amp; Human Behavior</td>
</tr>
<tr>
<td>PSYC 387</td>
<td>Addictions Treatment Delivery</td>
</tr>
<tr>
<td>PSYC 388</td>
<td>Treatment Issues &amp; Theory in Addictions</td>
</tr>
<tr>
<td>PSYC 389</td>
<td>Ethics for the Addiction Counselor</td>
</tr>
</tbody>
</table>

#### Change:
You may 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).
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 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 either or both summer sessions. You will need to meet the standard prescribed for your number of earned hours and number of semesters on probation at the end of the summer sessions, or you will be dismissed and not allowed to apply for readmission until the following summer.

Academic Dismissal

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 mathematics within your first two semesters of enrollment (see section on testing policies);
3. You fail at least half of the attempted semester credit hours 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;
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 1999-01 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. If you are a first time FSU student whose FSU GPA is less than 1.0:
   a. Your letter of appeal must demonstrate that you understand the circumstances that led to your poor performance and have a specific and realistic plan concerning what you are going to do differently to insure academic success in the future.
   b. If you are reinstated on appeal and your cumulative GPA is less than 1.0, 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.
4. If you previously were placed on academic probation:
   a. 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.
   b. 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. You will be placed on academic probation if your cumulative grade point average is 1.0 or above, but below 2.0.
2. 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 below), but for no longer than three successive semesters.

Minimum Academic Progress Standards

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

<table>
<thead>
<tr>
<th>Total Hours Earned’</th>
<th>Minimum FSU Cumulative GPA’</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-14</td>
<td>1.00</td>
</tr>
<tr>
<td>15-29</td>
<td>1.40</td>
</tr>
<tr>
<td>30-44</td>
<td>1.60</td>
</tr>
<tr>
<td>45-59</td>
<td>1.80</td>
</tr>
<tr>
<td>60-above</td>
<td>2.00</td>
</tr>
</tbody>
</table>

1’Total hours earned = all earned hours, graded and ungraded, including transfer credits.
2’Cumulative FSU GPA = all letter grades (A, B, C, D, F, FX, WF) earned in all courses attempted at Frostburg State University, excluding authorized grade repeats 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.)
3. If you are on academic probation during the fall semester, you may not register for January Intersession courses.
Courses of Study

Addictions Counselor Preparation

Professional Certification Program

Advisor: Ann R. Bristow, Professor, Department of Psychology

- You cannot major or minor in addictions counseling.
- You may receive credit-by-examination for the following courses: PSYC 210, 212, 386, 387, 388, 389, 417.

The Board of Examiners of Professional Counselors 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:

State Board of Examiners of Professional Counselors
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 the two degree programs which currently satisfy the bachelor’s degree requirement are PSYCHOLOGY and SOCIAL WORK. If you choose to major in either of these departments AND take the required alcohol and drug counselor training courses, you will have met the academic requirements which is the first step 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 take 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 385
3. Group Therapy Techniques PSYC 385/SOWK 385
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

Art History

Minor

Change in Electives:

3. Elective:
   add to list of choices:
   ART 430 Greek and Roman Art
Biology

Biotechnology Option

The Department of Biology also offers a major and minor in Biology, a pre-health professions option and a teaching certification option. See the 1999-01 Undergraduate Catalog.

Summary of Requirements for Major in Biology - Biotechnology Option

1. Introductory Level Courses:
   (8 hours)
   - BIOL 149 General Biology I (GEP LAC 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:
   (13 hours)
   - BIOL 401 Genetics Lab
   - BIOL 435 Molecular Biology
   - BIOL 437 Molecular Biology Seminar
   - BIOL 438 Biotechnology Laboratory \(\text{you must complete a total of 3 cr.}\)
   - BIOL 440 Developmental Biology

4. Suggested Electives in Biology:
   - 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 LAC 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 hours)
   - MATH 209 Elements of Applied Probability & Statistics
   or Math 219 Honors: Elements of Applied Probability & Statistics
   Select one from:
   - MATH 220 Calculus for Applications I
   - MATH 226 Calculus

   Physics:
   (8 hours)
   - PHYS 215, 216 General Physics I and II
   or PHYS 261, 262 Principles of Physics I and II

The biotechnology option 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.
Chemistry

BS Chemistry/Doctor of Pharmacy

Dual-degree program

Coordinator:
Don Weser, Professor, Department of Chemistry

- This program allows you to earn both degrees in a seven-year period.
- The chemistry degree from FSU will be a BS in Chemistry, Biochemistry track.
- In this program you attend FSU for three years and the University of Maryland School of Pharmacy for four years. After completing the academic requirements at FSU (three years for most students), you will take the PCAT (entrance exam) and apply for admission to UM School of Pharmacy. If granted admission, you will attend the UM School of Pharmacy for four years and attain the Doctor of Pharmacy. After completion of a year at the UM School of Pharmacy with at least a 2.0 (C) average, you will apply for, and be granted a BS in Chemistry from FSU.
- In the event you are not admitted to the UM School of Pharmacy, you will be equipped to apply to other Pharmacy schools, or to complete the BS in Chemistry at FSU.
- The Department of Chemistry also offers tracks in Traditional Chemistry and Biochemistry and a teaching certification option. See the 1999-2001 Undergraduate Catalog.

Summary of Requirements at FSU for Dual-degree in Chemistry/Pharmacy

1. Chemistry
   (24 hours)
   CHEM 101 & 102 General Chemistry I & II (101 - GEP LAC Group C)
   CHEM 301 & 302 Organic Chemistry I & II
   CHEM 300 Chemical Problem Solving
   CHEM 320 Quantitative Analysis
   CHEM 491 & 492 Seminar in Chemistry I & II

2. Biology
   (15 hours)
   BIOL 149 General Biology I (GEP LAC Group C)
   BIOL 304 Microbiology
   BIOL 350 Genetics
   BIOL 435 Molecular Biology

3. Mathematics
   (9 hours)
   MATH 226 & 227 Calculus I & II (226 - GEP BR Math)
   MATH 209 Elements of Prob. and Stat. (GEP BR Math)
   or
   MATH 380 Intro. to Prob. and Stat.

4. Physics
   (8 hours)
   PHYS 215 & 216 Gen. Physics I & II (215 - GEP BR Group C)
   or
   PHYS 261 & 262 Princ. of Physics I & II (261 - GEP BR Group C)

Dual Degree Requirements at FSU

1. Completion of required courses in the dual degree study program (listed above), 56 semester hours.
2. Completion of a minimum of ninety (90) semester hours, including at least a minimum of thirty (30) credits total and fifteen (15) upper-division credits at Frostburg State University.
3. Completion of the FSU General Education Program.
4. Completion of at least one-half of the semester hours required in the biochemistry track of the chemistry degree program through course work or special departmental exams at FSU.
5. Be admitted to the University of Maryland School of Pharmacy and successfully complete the first year courses in the Doctor of Pharmacy degree program with a grade point average of 2.0 (C) or better.
6. Admission to the University of Maryland School of Pharmacy is not guaranteed. If not accepted into the University of Maryland School of Pharmacy, complete BS in chemistry, biochemistry track at FSU.

For Pre-professional Program

| Hours Required at Frostburg State University: | 90 |
| Hours Required at UM School of Pharmacy: | 30 |
| Total Hours for B.S. in Chemistry: | 120 |
Computer Science

Major

Minor

Concentration in information systems

Professors:
Chitsaz, Tracy

Associate Professors:
Owens (Chair), Rinard, Slemmer

Assistant Professors:
Crall, Kranz, Thiel

- Computer Science courses must have a grade of C or better to be applied towards major or minor requirements.
- You may receive credit by examination for the following courses: 100, 200, 350.
- If you have no programming experience, you are strongly encouraged to complete COSC 130 prior to enrollment in COSC 200.

Summary of Requirements for Major/Minor in Computer Science

<table>
<thead>
<tr>
<th>Major</th>
<th>Minor</th>
<th>For Info. Systems Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours Required in Computer Science:</td>
<td>42</td>
<td>18</td>
</tr>
<tr>
<td>Hours Required in Other Departments:</td>
<td>21</td>
<td>0</td>
</tr>
<tr>
<td>Total Hours Required:</td>
<td>63</td>
<td>18</td>
</tr>
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</table>

1. Core Courses:

<table>
<thead>
<tr>
<th>(18 hours)</th>
<th>(9 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 100/110 Intro. to Computer Science</td>
<td>COSC 100/110 Intro. to Computer Science</td>
</tr>
<tr>
<td>COSC 200 Computer Science I</td>
<td>COSC 200 Computer Science I</td>
</tr>
<tr>
<td>COSC 201 Computer Science II</td>
<td>COSC 201 Computer Science II</td>
</tr>
<tr>
<td>COSC 305 Computer Ethics</td>
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<tr>
<td>COSC 325 Software Engineering</td>
<td></td>
</tr>
<tr>
<td>COSC 365 Digital Logic &amp; Computer Design</td>
<td></td>
</tr>
</tbody>
</table>

2. Required Advanced Courses:

<table>
<thead>
<tr>
<th>(12 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 310 Data Structures &amp; File Organization</td>
</tr>
<tr>
<td>COSC 450 Programming Language Structures</td>
</tr>
<tr>
<td>COSC 460 Operating Systems Concepts</td>
</tr>
<tr>
<td>COSC 470 Compiler Designs and Constructions</td>
</tr>
</tbody>
</table>

3. Other Required Courses:

**Mathematics (15 hours)**

Math 200 An Introduction to Discrete Math
Math 226, 227 Calculus I, II (226 - GEP BR Math)
Math 380 Introduction to Probability & Statistics

*One additional math course at the 300 or 400 level except:*
Math 340 Fundamental Concepts of Geometry
or Math 461 History of Mathematics

**Other (6 hours)**

CMAT 102 Introduction to Speech Communication
ENGL 338 Technical Writing (GEP BR Adv. Comp.)

4. Electives:

<table>
<thead>
<tr>
<th>(12 hours)</th>
<th>(9 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four additional computer science courses from:</td>
<td>Three additional computer science courses.</td>
</tr>
<tr>
<td>COSC 335 Network Architecture Design</td>
<td></td>
</tr>
<tr>
<td>COSC 345 The Internet and Multimedia Communications</td>
<td></td>
</tr>
<tr>
<td>COSC 350 Computer Organization &amp; Assembly Language</td>
<td></td>
</tr>
<tr>
<td>COSC 390 Topics in Modern Programming Languages</td>
<td></td>
</tr>
<tr>
<td>COSC 415 Computer Interfacing</td>
<td></td>
</tr>
<tr>
<td>COSC 420 Robotics and Industrial Computer Applications</td>
<td></td>
</tr>
<tr>
<td>COSC 430 Computer Education</td>
<td></td>
</tr>
<tr>
<td>COSC 435 Network Implementation and Testing</td>
<td></td>
</tr>
<tr>
<td>COSC 440 Database Systems</td>
<td></td>
</tr>
<tr>
<td>COSC 445 Network and Distributed System Management</td>
<td></td>
</tr>
<tr>
<td>COSC 455 Artificial Intelligence</td>
<td></td>
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<tr>
<td>COSC 465 Computer Systems Architecture</td>
<td></td>
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<tr>
<td>COSC 475 Interactive Computer Graphics</td>
<td></td>
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<tr>
<td>COSC 485 Theory of Computation</td>
<td></td>
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<tr>
<td>COSC 491 Seminar in Computer Science</td>
<td></td>
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<tr>
<td>COSC 494 Field Exp. in Computer/Information Science</td>
<td></td>
</tr>
<tr>
<td>COSC 499 Individual Problems in Computer Science</td>
<td></td>
</tr>
</tbody>
</table>
Requirements for Major Concentrating in Information Systems

1. Core Courses:
   (18 hours)
   COSC 100/110 Intro. to Computer Science
   COSC 200 Computer Science I
   COSC 201 Computer Science II
   COSC 305 Computer Ethics
   COSC 325 Software Engineering
   COSC 365 Digital Logic and Computer Design

2. Required Advanced Courses:
   (12 hours)
   COSC 300 Structured System Analysis and Design
   COSC 335 Network Architecture Design
   COSC 340 Database Applications for Microcomputers
   COSC 460 Operating Systems Concepts

3. Other Required Courses:
   Mathematics (9 hours)
   MATH 200 An Introduction to Discrete Math
   MATH 220 Calculus for Applications
   or MATH 226 Calculus I (GEP BR Math)
   MATH 209/219 Elements of Applied Probability & Statistics (GEP BR Math)
   or MATH 380 Intro. to Probability & Statistics
   Other (12 hours)
   ENGL 338 Technical Writing (GEP BR Adv. Comp.)
   ACCT 201, 202 Introductory Accounting I and II
   CMAT 102 Introduction to Speech Communication

4. Electives:
   (9 hours)
   Three additional computer science courses from:
   COSC 320 Business Programming
   COSC 345 The Internet and Multimedia Communications
   COSC 350 Computer Organization and Assembly Language
   COSC 380 Computer-Based Information Systems
   COSC 390 Topics in Modern Programming Languages
   COSC 410 Data and Computer Communication
   COSC 415 Computer Interfacing
   COSC 420 Robotics and Industrial Computer Applications
   COSC 430 Computer Education
   COSC 435 Network Implementation and Testing
   COSC 440 Database Systems
   COSC 445 Network and Distributed System Management
   COSC 455 Artificial Intelligence
   COSC 465 Computer Systems Architecture
   COSC 475 Interactive Graphics
   COSC 480 Knowledge-Based Systems
   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

5. Elective in Business
   (3 hours)
   Any 300- or 400-level course in Business Administration
Foreign Languages & Literature

Major and minor

Teaching certification option

Professor:
O'Brien (Chair)

Assistant Professors:
Bolovan, Sanchez

Instructor:
Cardinale

- You may major or minor in Foreign Languages & Literature with a concentration in French or Spanish.
- 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.

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### Accelerated Placement

The department reviews all first time students' records, and other students' records by request, to determine if they are eligible for accelerated placement in language courses. If you are eligible for accelerated placement and complete a course above the 101-level with a grade of C or better, you 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 Major in Foreign Languages & Literature

The requirements for a major in foreign languages and literature with a concentration in French or Spanish consist of a minimum of 27 semester hours of credit beyond the 250 course. Courses in the particular concentration (French or Spanish) include five 300-level and four 400-level courses. All majors must also take Linguistics 301: Introduction to Language. In addition, one of the following options must be completed:

- **Group I Language Orientation:** completion of a second foreign language through the 250 level.
- **Group II Second Major:** Completion of a second major in another department.

### Summary of Requirements for Minor in Foreign Languages & Literature

The minor in French or Spanish consists of at least three 300- or 400-level courses (9 credit hours beyond the 250 course). Students minoring in a language who begin course work at the 300-level are required, through accelerated placement, to pay the fee of $10.00 per credit hour for the 211, 212, and 250 courses. A minor in a foreign language meets Group B, GEP LAC. Extra courses may be used to fulfill Group E.

### 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 or Spanish).
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: Secondary School Programs.
Geography

Major and Minor

Concentrations in Urban Planning and Cartography

Health & Physical Education

Teaching Certification Track

See the 1999-2001 Undergraduate Catalog for descriptions of the minors in HPE and Coaching, and major tracks in athletic training, coaching and health fitness.

Major and Minor

4. Advanced Regional Geography:
   Add to list of choices:
   GEOG 403 Geography of Sub-Saharan Africa

Concentrations in Urban Planning and Cartography

5. Advanced Regional Geography
   Add to list of choices:
   GEOG 403 Geography of Sub-Saharan Africa

Health & Physical Education

Teaching Certification

<table>
<thead>
<tr>
<th>Hours Required in HPE</th>
<th>59</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours Required in Other Departments</td>
<td>46</td>
</tr>
<tr>
<td>Total Hours Required</td>
<td>105</td>
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</tbody>
</table>

Summary of Requirements for Major/Minor in Health & Physical Education - Teaching Certification Track

Major

1. Discipline Core:
   (29 hours)
   PHEC 103 Foundations of Physical Education
   PHEC 303 Biomechanics
   PHEC 310 Org. & Adm. of Phys. Ed.
   PHEC 311 Assessment & Eval. Methodology
   PHEC 401 Physiology of Exercise
   PHEC 402 Adapted Physical Activities
   PHEC 407 Motor Learning and Performance
   HEED 101 Community Health Promotion
   HEED 200 Nutrition
   HEED 305 Athletic Training I

2. Required Courses in Other Departments:
   (12 hours)
   BIOL 149 General Biology I (GEP LAC Group C)
   BIOL 201 Anatomy and Physiology I
   BIOL 202 Anatomy and Physiology II

3. Teaching Certification Track
   A. Teaching Core
   (24 hours)
   HEED 202 Coordinated Health Program
   HEED 307 Consumer and Environmental Health
   HEED 316 Content in the School Health Program
   HEED 404 Health Instruction
   HEED 405 Sexuality
   PHEC 164 Teaching Physical Education Through Outdoor Adventure Education
   PHEC 165 Teaching Physical Education Through Cooperative Team Challenges
   PHEC 166 Teaching Physical Education Through Tactical Approaches*
   PHEC 167 Teaching Physical Education Through Educational Gymnastics
   PHEC 168 Teaching Physical Education Through Dance Forms
   PHEC 169 Teaching Physical Education Through Weight Training
   PHEC 416 Curriculum Design in Physical Education
**Transfer students:**
If you transfer in three team sport activity courses, you may substitute these for PHEC 166. All transfer students must take PHEC 170.

### B. Education Courses

**Pre-Phase I**
- EDUC 201 Students, Teachers, and Learning Environments
  (3 hours)

**Phase I**
- EDUC 200 Teaching and Professional Assessment Laboratory
- EDUC 202 Foundations of Learning & Instruction
- REED 323 Process and Acquisition of Reading
- EDUC 346 Educational Technology Lab I
  (8 hours)

**Phase II**
- REED 317 Content Area Reading
- SPED 361 Adapting Instruction in a Diverse Classroom
- EDUC 392 K-12 Field Experience
- EDUC 447 Educational Technology Lab II
- PHEC 408 Movement Experiences for Children
- PHEC 418 Physical Education in the Secondary School
  (14 hours)

**Phase III**
- EDUC 406 Leadership Seminar
- EDUC 448 Educational Technology Lab III
- EDUC 497 Teaching Internship, K-12 Program
  (15 hours)

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**Summary of Requirements for Teaching Certification Track in Health and Physical Education**

If you wish to complete a Maryland State approved program in teaching health and physical education, you must:

- Complete the BA/BS in Health and Physical Education (Teaching Certification Track).
- PHEC 402, 407, 408, 416, 418 and HEED 404 must be completed prior to the Phase III block, and are usually taken one semester prior to PHEC 497 - Teaching Internship.
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: K-12 Programs.
Health Science Administration

Collaborative Program

Major

Coordinator: M. Shakil Rahman, Chair, Department of Business Administration

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.

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 therapy, occupational therapy assistant, physical therapy assistant, radiologic technician, dental hygiene, medical laboratory technician, 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 and Introduction to Sociology
   - Humanities: Introduction to Philosophy or Contemporary Ethical Problems
   - Health Education: Personal Wellness
   - 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
   - BUAD 356 Leadership and Interpersonal Skills

   (Legal Issues in Health — transfer course, to be specified)
Mathematics

Mathematics Teaching Certification Option

- If you wish to obtain secondary school teaching certification, you must complete the Mathematics Teaching Certification Option (internship required) as described here.
- If you have other career goals, the Department of Mathematics also offers a major and minor in Mathematics, a specialization in mathematics for elementary education majors, a major in Actuarial Science and a Mathematical Sciences focus. See the 1999-2001 Undergraduate Catalog for descriptions of these programs.

4. Administration Courses:
   (30 hours)
   - COSC 100 Introduction to Computer Science
   - ACCT 100 Financial Accounting
   - ECON 200 Basic Economics
   - MATH 209 Elements of Applied Probability and Statistics
   - BUAD 351 Management of Organizations
   - BUAD 361 Principles of Marketing
   - BUAD 303 Principles of Finance
   - BUAD 357 Human Resource Management
   - BUAD 359 Total Quality Management
   - BUAD 494 Field Experience in Business Administration

5. Program Elective Course:
   (3 hours)
   Select one course from among:
   - BUAD 355 Operations Management
   - BUAD 480 Business and Society
   - PSYC 430 Health Psychology
   - SOCI 468 Sociology of Later Life

For Teaching Certification Option

<table>
<thead>
<tr>
<th>Hours Required in Mathematics:</th>
<th>36</th>
</tr>
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<tbody>
<tr>
<td>Hours Required in Other Departments:</td>
<td>45.5</td>
</tr>
<tr>
<td>Total Hours Required:</td>
<td>81.5</td>
</tr>
</tbody>
</table>

Summary of Requirements for Major in Mathematics - Teaching Certification Option

1. Basic Core Curriculum
   (18 hours)
   - MATH 226 Calculus I (GEP BR Math)
   - MATH 227 Calculus II
   - MATH 228 Calculus III
   - MATH 320 Multivariable Calculus
   - MATH 350 Matrix Algebra
   - MATH 470 Mathematical Models and Applications
   - or MATH 491 Seminar in Mathematics

2. 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

3. Required Courses in Other Departments
   (3 hours)
   - CMAT 102 Introduction to Speech Communication
   - (Grade of C or better required to satisfy major requirement.)

4. 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.

Music
Teaching Certification Option

Change in requirements:
Delete requirement of CMAT 102/112 Introduction to Speech Communication.

Psychology
Minor

Change in minor requirements:
Only psychology courses in which you earn a grade of C or better count towards satisfaction of major and minor requirements.

Recreation and Parks Management

Summary of Requirements for Major in Recreation and Parks Management

1. Discipline Core
   (36 hours)
   RECR 201 Introduction to Recreation and Parks
   RECR 221 Introduction to Therapeutic Recreation
   RECR 342 Park Management and Facilities
   RECR 380 Recreation Leadership
   RECR 382 Program Planning
   RECR 388 Research Methods in Recreation and Parks
   RECR 440 Organization and Administration of Recreation & Parks
   RECR 443 Issues and Legal Liability in Recreation & Parks
   RECR 492 Internship Project
   RECR 495 Internship in Recreation
   RECR 497 Out-of-Class Requirements

2. Required Courses in Other Departments
   (9 hours)
   BUAD 361 Principles of Marketing
   ECON 200 Basic Economics (CEP LAC Group D)
   COSC 220 Introduction to Software Applications
   or EDUC 454 Microcomputer Applications in Education
   or approved computer application course

3. Complete one of the following:
   a. a second major
   b. a minor
   c. an associate degree from a program articulated with FSU’s Recreation and Parks Management degree
   d. a specialty track or concentration within the recreation major

Therapeutic Recreation Concentration

<table>
<thead>
<tr>
<th>Hours required in RECR:</th>
<th>45</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours required in other departments:</td>
<td>33</td>
</tr>
<tr>
<td>Total Hours Required:</td>
<td>78</td>
</tr>
</tbody>
</table>
See the 1999-2001 Undergraduate Catalog for a full description of additional specializations available in recreation: community program delivery, adventure sports and hospitality.

Requirements for the Concentration in Therapeutic Recreation
(33 credits)

1. Complete the Recreation discipline core courses (1.) and courses required in other departments (2.) listed above.

2. Complete a 480 consecutive hours internship under a NCTRC certified supervisor.

3. HPER 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

4. Biology
   (12 hours)
   BIOL 149 General Biology I (GEP LAC Group C)
   BIOL 201 Anatomy and Physiology I
   BIOL 202 Anatomy and Physiology II

5. Psychology
   (9 hours)
   PSYC 150 General Psychology (GEP LAC Group D)
   PSYC 210 Child Psychology
   or PSYC 212 Adolescence and Adulthood
   PSYC 417 Psychology of Abnormal Behavior

6. Other Required Courses
   (3 hours)
   Select one of the following:
   PSYC 250 Death and Dying
   PSYC 404 Psychology of Exceptional Children
   PSYC 409 Human Learning and Cognition
   HEED 200 Nutrition
   PHEC 303 Kinesiology

Change in the Adventure Sports Track:

II. Adventure Sports Track
(24 hours)

D. All of the following:
   (12 hours)
   RECR 391 Mgmt of Wilderness & Environmental Emergencies
   or RECR 392 Backcountry Safety & Rescue
   or RECR 330 Outdoor Education
   BUAD 303 Principles of Finance
   ACCT 100 Financial Accounting
   BUAD 415 New Business Ventures
   or * Practica - GCC (3 cr)
   or ** Electives (3 cr) - chosen with advisement

Change in requirements:
Add to list of electives from which you may select:
WMST 494 Practicum in Women’s Studies (A maximum of 3 credits may be applied to the minor)

Women’s Studies
Minor
## Social Science
### Teaching Certification Option

**Coordinator:** David J. Fell, Professor, Department of Educational Professions

- Completion of the Social Science major (Teaching Certification Option) is required for approved program teacher certification in secondary social studies.
- If you do not plan to teach, you may choose the Social Science major described in the 1999-2001 Undergraduate Catalog.
- 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).

### Summary of Requirements for Major in Social Science - Teaching Certification Option

#### Major

<table>
<thead>
<tr>
<th>1. Introductory Level Courses:</th>
<th>42 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Economics</strong> (6 hours)</td>
<td>ECON 201 Principles of Economics (Macro) <em>(GEP LAC Group D)</em></td>
</tr>
<tr>
<td>ECON 202 Principles of Economics (Micro)</td>
<td></td>
</tr>
<tr>
<td><strong>Geography</strong> (6 hours)</td>
<td>GEOG 104 Human Geography <em>(GEP LAC Group D)</em></td>
</tr>
<tr>
<td>or GEOG 114 Honors Human Geography <em>(GEP LAC Group D)</em></td>
<td></td>
</tr>
<tr>
<td>GEOG 301 Geography of North America</td>
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<tr>
<td>or GEOG 302 Geography of Maryland</td>
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</tr>
<tr>
<td><strong>History</strong> (12 hours)</td>
<td>Both of the following sequences:</td>
</tr>
<tr>
<td>HIST 103, 104 History of the United States</td>
<td></td>
</tr>
<tr>
<td>and HIST 113, 114 World History</td>
<td></td>
</tr>
<tr>
<td><strong>Political Science</strong> (6 hours)</td>
<td>POSC 110 Introduction to American Politics <em>(GEP LAC Group D)</em></td>
</tr>
<tr>
<td>or POSC 112 Honors Introduction to American Politics <em>(GEP LAC Group D)</em></td>
<td></td>
</tr>
<tr>
<td>POSC 211 Introduction to World Politics <em>(GEP LAC Group D)</em></td>
<td></td>
</tr>
<tr>
<td>or POSC 213 Honors Introduction to World Politics <em>(GEP LAC Group D)</em></td>
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</tr>
<tr>
<td>or POSC 231 Introduction to Comparative Politics</td>
<td></td>
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<tr>
<td><strong>Psychology</strong> (6 hours)</td>
<td>PSYC 150 General Psychology <em>(GEP LAC Group D)</em></td>
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<tr>
<td>or PSYC 151 Honors General Psychology <em>(GEP LAC Group D)</em></td>
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<td>and 1 from among:</td>
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<tr>
<td>PSYC 210 Child Psychology</td>
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<tr>
<td>PSYC 212 Adolescence and Adulthood</td>
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<tr>
<td>PSYC 220 Psychology of Women</td>
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<tr>
<td><strong>Sociology</strong> (6 hours)</td>
<td>SOCI 100 Introduction to Sociology <em>(GEP LAC Group D)</em></td>
</tr>
<tr>
<td>or SOCI 111 Honors Introduction to Sociology <em>(GEP LAC Group D)</em></td>
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<tr>
<td>and 1 from among:</td>
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<tr>
<td>SOCI 220 Racial and Cultural Minorities</td>
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<tr>
<td>SOCI 224 Cultural Anthropology</td>
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</tr>
<tr>
<td>SOCI 306 Sociology of African Americans</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Tracks: (18-19 hours)</th>
<th>Select 2 of the following departmental patterns. Choose the Research Methods Course in one of the selected tracks. Research Methods Courses include the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Economics</strong> (9 hours)</td>
<td>ECON 450 Quantitative Economics</td>
</tr>
<tr>
<td>GEG 380 Geographic Research Methods and Field Techniques</td>
<td></td>
</tr>
<tr>
<td>HIST 302 Research Methods (taken with ENGL 310)</td>
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<tr>
<td>POSC 311 Research Methods</td>
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<tr>
<td>PSYC 300 Research Methods I</td>
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<tr>
<td>SOCI 311 Basic Research Methods</td>
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</tr>
<tr>
<td><strong>Psychology</strong> (6 hours)</td>
<td>PSYC 215 Child Development and Family</td>
</tr>
<tr>
<td>or PSYC 216 Adolescence and Adulthood</td>
<td></td>
</tr>
<tr>
<td>or PSYC 220 Psychology of Women</td>
<td></td>
</tr>
<tr>
<td><strong>Sociology</strong> (3 hours)</td>
<td>SOCI 100 Introduction to Sociology</td>
</tr>
<tr>
<td>or SOCI 111 Honors Introduction to Sociology</td>
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<tr>
<td>and 1 from among:</td>
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<tr>
<td>SOCI 306 Sociology of African Americans</td>
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</tr>
</tbody>
</table>

### Required Hours

- Hours required in Social Sciences: 69-70
- Hours required in other fields: 45.5
- Total Hours Required: 114.5-115.5
ECON 307 Government and Business
ECON 308 Urban and Regional Economics
ECON 309 Comparative Economic Systems
ECON 351 Intermediate Macroeconomics
ECON 352 Intermediate Microeconomics
ECON 407 Business Cycles and Forecasting
ECON 450 Quantitative Economics
ECON 490 Special Topics in Economics

**Geography (9 hours)**
Select one course from three of the four groupings:

- a. GEOG 300 Economic Geography
  or GEOG 407 Political Geography
  or GEOG 410 Locational Analysis
- b. 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
- d. GEOG 380 Geographic Research Methods & Field Techniques

**History (9 - 10 hours)**
HIST 302 (if chosen for research methods) plus three 300- or 400-level History courses. At least one of the courses must be non-western (e.g., Asian, African, Middle Eastern).

**Political Science (9 hours)**
Select one course from three of the four groupings:

- a. POSC 352 Interest Groups and Public Policy
  POSC 361 Public Opinion and Political Behavior
  POSC 362 Political Parties and Elections
  POSC 363 Media and Politics
  POSC 365 Women and Politics
  POSC 456 Urban Policies 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 Western Europe
  POSC 334 Politics of Eastern 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 in Action
  POSC 421 American Legislative Politics
  POSC 422 American Constitutional Law I
  POSC 423 American Constitutional Law II
  POSC 427 The American Presidency
- d. POSC 311 Research Methods

**Psychology (9-10 hours)**
Select 1 course each from the three of the four groupings:

- a. PSYC 210 Child Psychology
  or PSYC 212 Adolescence and Adulthood
- b. PSYC 213 Psychology of Adjustment
  or PSYC 300 Research Methods I
  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 three of four groupings. Selections may not duplicate introductory courses.

- a. Social Institutions and Structures
  SOCI 220 Racial and Cultural Minorities
  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
  SOCI 322 Social Demography
  SOCI 325 Community Analysis
  SOCI 326 Sociology of Rural Life
  SOCI 328 Sociology of Urban Life
- d. Research Methods
  SOCI 311 Basic Research Methods

3. Social Science Seminar (3 hours)
SOCS 490 Topics in Social Science

4. Other required courses (6 hours)
CMAT 102 Introduction to Speech Communication
COSC 100 Introduction to Computer Science
or EDUC 346, 447, 448 Education Technology Labs I-III

**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.
New and revised course descriptions

Listed alphabetically by department

**Art**

**ART 370 Women/Gender and the Visual Arts** 3 cr. Spring, even-numbered years.

**ART 380 19th-Century Art History** 3 cr. Fall, even-numbered years.

**ART 430 Greek and Roman Art** 3 cr. A social and art historical analysis of Greco-Roman visual representation. Sculpture and painting. Spring semesters, odd-numbered years.

**ART 460 Renaissance & Baroque Art History** 3 cr. Fall, odd-numbered years.

**Computer Science**

**COSC 120 Introduction to Cyberspace** 3 cr. Survey of cyberspace with particular emphasis on the Internet, the World Wide Web and other Internet services. Hardware and software for communications and networking network protocols, file types and multimedia, the ethics of cyberspace. Each student will complete a project that summarizes the Internet resources in his/her major discipline; the project may be published as a Web site and presented in class. Variable.

**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. Strongly recommended for students with no programming experience prior to taking COSC 200. Every semester.

**Biology**

**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. Variable. Prerequisite: BIOL 304.

**BIOL 437 Molecular Biology Seminar** 1 cr. Current topics in molecular biology presented by students, faculty, and invited speakers coupled with in-depth analysis and discussion. One hour. Required for biology majors in biotechnology option. Fall semester. Prerequisite: junior or senior standing; BIOL 435.

**BIOL 438 Biotechnology Laboratory** 1 cr. Advanced techniques in molecular biology. Topics vary depending on instructor. Topics include cell culture methods, immunocytochemistry, electrophoretic separation and analysis. Repeatable to 4 credits when topics are substantially different, 3 credits required for biotechnology option. Both semesters. Ten 3 hr. lab sessions per semester. Prerequisite: 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.

**Chemistry**

**CHEM 103 Foundations of Chemistry** 3 cr. Introduction to fundamental concepts, methodology and nomenclature of chemistry, including data analysis, atomic structure, inorganic and organic compounds, chemical equations and reactions, stoichiometry, states of matter, solutions, reaction rates and equilibrium. No laboratory. Web delivered. Variable.

**Computer Science**

**COSC 200 Computer Science I** 3 cr. Prerequisite: COSC 130 or prior programming experience.

**COSC 300 Structured Systems Analysis and Design** 3 cr. Prerequisite: COSC 200.

**COSC 305 Computer Ethics** 3 cr. Every semester.

**COSC 325 Software Engineering** 3 cr. Every semester.

**COSC 330 Graphical User Interfaces & Interactive Environments** 3 cr. Prerequisite: COSC 120 or permission of the instructor.

**COSC 335 Network Architecture Design** 3 cr. Fall only. Prerequisite: COSC 201.

**COSC 365 Digital Logic & Computer Design** 3 cr. Prerequisite: COSC 201. COSC 350 recommended.

**COSC 450 Programming Language Structures** 3 cr. Prerequisite: COSC 310.

**COSC 470 Compiler Designs & Constructions** 3 cr. Prerequisites: COSC 310 and COSC 365.

**COSC 475 Interactive Computer Graphics** 3 cr. Prerequisite: COSC 201.

The following courses are now offered on a variable frequency:


**Engineering**

**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 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.

**ENME 271 Numerical Methods in Mechanical Engineering** 3 cr.
FSU Course. Introduction to computational tools for the solution of engineering problems. Generation of computer algorithms using software such as MATLAB, numerical analysis and generation of graphical displays. Computer simulation with user interaction. Two lectures and one computer lab per week. Spring. Prerequisite: ENES 221.

**ENME 320 Thermodynamics** 3 cr.

**ENME 332 Transfer Processes** 3 cr.

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**Foreign Languages & Literature**

**French**

**FREN 101 Basic Elements of French I** 3 cr.

**FREN 102 Basic Elements of French II** 3 cr.
Continued development of basic skills. Emphasis on active performance. Language laboratory. Variable. 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. Variable.

**FREN 212 French Grammar, Composition, and Conversation II** 3 cr.
Sequel to FREN 211. Variable.

**FREN 250 Overview of French** 3 cr.
An overview of French. May be taken concurrently with a 300-level course. Prerequisite: FREN 212 or equivalent.

**FREN 330 French 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 FREN 311. Variable. Prerequisite: FREN 250 or equivalent.

**FREN 331 French for Practical Communication II** 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. Variable. Prerequisite: FREN 250 or equivalent.

**FREN 332 French for Practical Communication III** 3 cr.
Continuation of French 331. Further development of reading and writing skills and advanced grammar. Prerequisite or corequisite: FREN 250, FREN 330 and 331 recommended.

**FREN 333 France Until 1789** 3 cr.
French culture through representative works: the political, economic, philosophical, scientific, social, artistic life in France from the Middle Ages to the Revolution of 1789, i.e., the period known as the “Ancien Régime” with a special emphasis on Classicism (17th century) and the Enlightenment (18th century). Not open to students who have received credit for former FREN 313. Variable. Prerequisite or corequisite: FREN 330, FREN 331, or FREN 332 (or equivalent).

**FREN 334 France From 1789 to Contemporary Times** 3 cr.
French culture through representative works: the political, economic, philosophical, scientific, social, artistic, and literary life in France from the Revolution (1789) to the present. This course will cover the major literary movements such as Romanticism, Realism, and Symbolism. Not open to students who have received credit for former FREN 314. Variable. Prerequisite or corequisite: FREN 330, FREN 331, FREN 332, or FREN 333 (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.

Changes in prerequisite for the following courses:
FREN 401 French Poetry
FREN 402 The French Theater
FREN 403 French Non-Fiction
FREN 404 French Fiction
Prerequisite: FREN 335 or 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. Variable.

SPAN 102 Basic Elements of Spanish II 3 cr.

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. Variable.

SPAN 212 Spanish Grammar, Composition, & Conversation II 3 cr.
Sequel to SPAN 211. Variable.

SPAN 250 Overview of Spanish 3 cr.
An overview of Spanish. May be taken concurrently with a 300-level course. Prerequisite: SPAN 212 or equivalent.

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: SPAN 250 or equivalent.

SPAN 331 Spanish for Practical Communication II 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 SPAN 312. Variable. Prerequisite: SPAN 250 or equivalent.

SPAN 332 Spanish for Practical Communication III 3 cr.
Continuation of Spanish 331. Further development of reading and writing skills and advanced grammar. Prerequisite or corequisite: SPAN 250. SPAN 330 and 331 recommended.

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: 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: 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: SPAN 250 or equivalent.

Changes in prerequisite for the following courses:
SPAN 401 Spanish Poetry and Drama I
SPAN 402 Spanish Fiction
SPAN 403 Spanish Poetry and Drama II
SPAN 404 Spanish Nonfiction Prose
Prerequisite: SPAN 335 or permission of instructor.

Geography

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 are examined. Variable. Prerequisite: GEOG 104 (or 114) or permission of instructor.

Health, Physical Education & Recreation

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, sampling, research designs, survey research, program evaluation, unobtrusive research and elementary quantitative analysis. Variable. Prerequisites: RECR 201, RECR 382 or permission of the instructor.

RECR 480 Field Experience in Recreation and Parks 3 cr.
Special aspects of recreation and parks management. Sites of study may vary. Offered as needed. Repeatable up to a maximum of 6 credits.

RECR 490 Special Topics in Recreation & Parks 3 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 499 Individual Study in Recreation & Parks 3 cr.
Individual research performed under the supervision of a faculty member. Every semester. Repeatable for credit if topics are substantially different. Prerequisite: permission of the department chair.

History

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.
**Liberal Studies**

**LBST 499 Liberal Studies Capstone** 3 cr.
Capstone course for Liberal Studies majors: seminar, internship, read-
ings course or independent study. Paper required. P/F. Every semester. Permission of LBST coordinator required.

**Mathematics**

**DVMT 095 Pre-Algebra Mathematics** 3 cr.
The primary focus is to improve students’ basic math skills. Arithmetic concepts of whole numbers, integers, fractions and decimals; problem-
solving skills dealing with ratios, rates, proportions and percentages; concepts of linear, area and volume measurement in both the English and metric systems; and introductory algebra topics of solving linear equa-
tions and graphing. Completion of this course will meet the prerequisites for MATH 104, MATH 206, MATH 209 or DVMT 100. Graded P/F. Every semester. Does not fulfill the Basic University Requirement in mathemat-
sics and graphing. Completion of this course will meet the prerequisites for MATH 104, MATH 206, MATH 209 or DVMT 100. Graded P/F. Every semester.

**Psychology**

**PSYC 385 Group Processes** 3 cr.
Study of group processes including power dynamics, curative factors, patterns of member interaction, leadership and stages of group develop-
ment. Required course for Maryland Addictions Counselor certification. Also offered as SOWK 385. Prerequisite: Sophomore standing.

**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. Required course for Maryland Addictions Counselor certification. 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 diagno-
sis. Prerequisites: PSYC 386, one 3 credit helping relationships course recom-
mended, or permission of instructor.

**Music**

**Applied Music**

**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 be-
tween spoken and sung languages explored and physical processes re-
quired to produce the various sounds investigated and practiced. (Required for vocal performance and choral education majors).

**Social Work**

**SOWK 385 Group Processes** 3 cr.
Study of group processes including power dynamics, curative factors, patterns of member interaction, leadership and stages of group develop-
ment. Required course for Maryland Addictions Counselor certification. Also offered as PSYC 385. Prerequisite: Sophomore standing.

**Women’s Studies**

**WMST 494 Practicum in Women’s Studies** 1-6 cr.
Work experience with a federal, state or private organization that is re-
lated to Women’s Studies. A maximum of three credits can be applied to the Women’s Studies minor. A formal written report must be filed with the Women’s Studies coordinator. Variable. Prerequisite: WMST 201, or two Women’s Studies electives and permission of coordinator.
### FSU at a glance

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

**2000-2001 Expenses**  
In-State $9,460  
Out-of-State $14,610  
*Estimated undergraduate: includes room, board, tuition & fees for one year.

### Office Directory

Because of recent building renovations, several offices have been moved. New construction and other renovation projects will result in additional office relocations. It is recommended that you call the following offices to confirm location prior to visiting.

The Student Services Building and new Children’s Center will be located adjacent to Chesapeake.

<table>
<thead>
<tr>
<th>Office Name</th>
<th>Location</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Academic Computing</strong></td>
<td>Pullen III</td>
<td>301/687-7090</td>
</tr>
<tr>
<td><strong>Admissions</strong></td>
<td>Pullen 114</td>
<td>301/687-4201</td>
</tr>
<tr>
<td><strong>Career Services</strong></td>
<td>Gunter (Summer ’00)</td>
<td>301/687-4403</td>
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<td></td>
<td>Student Services Bldg. (Fall ’00)</td>
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<tr>
<td><strong>Children’s Center</strong></td>
<td>New Children’s Center Building</td>
<td>301/687-4027</td>
</tr>
<tr>
<td><strong>Counseling Center</strong></td>
<td>Gunter (Summer ’00)</td>
<td>301/687-4234</td>
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<td></td>
<td>Student Services Bldg. (Fall ’00)</td>
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<tr>
<td><strong>Disabled Student Services</strong></td>
<td>Pullen 150</td>
<td>301/687-4483</td>
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<td>TTY 301/687-7795</td>
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<tr>
<td><strong>Financial Aid</strong></td>
<td>Pullen 114</td>
<td>301/687-4301</td>
</tr>
<tr>
<td><strong>PASS</strong></td>
<td>Pullen 150</td>
<td>301/687-4441</td>
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<tr>
<td><strong>Payroll Office</strong></td>
<td>Hitchins 3rd Floor</td>
<td>301/687-4593</td>
</tr>
<tr>
<td><strong>Registration &amp; Transcripts</strong></td>
<td>Pullen 144</td>
<td>301/687-4346</td>
</tr>
<tr>
<td><strong>SAFE Communities Center</strong></td>
<td>Student Services Bldg. (Fall ’00)</td>
<td>301/687-7692</td>
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<tr>
<td><strong>Student Support Services</strong></td>
<td>Pullen 133</td>
<td>301/687-4481</td>
</tr>
<tr>
<td><strong>Writing Center</strong></td>
<td>Pullen 151</td>
<td>301/687-4066</td>
</tr>
<tr>
<td><strong>University &amp; Student Billing</strong></td>
<td>Pullen 148</td>
<td>301/687-4231</td>
</tr>
<tr>
<td><strong>Upward Bound</strong></td>
<td>Gunter (Summer ’00)</td>
<td>301/687-4994</td>
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<td></td>
<td>Student Services Bldg. (Fall ’00)</td>
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</tr>
<tr>
<td><strong>Veteran’s Affairs</strong></td>
<td>Gunter (Summer ’00)</td>
<td>301/687-4409</td>
</tr>
<tr>
<td></td>
<td>Student Services Bldg. (Fall ’00)</td>
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</table>