



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

FSU is committed to making all of its programs, services and activities accessible to persons with disabilities. You may request accommodations through the ADA Compliance Office, 307 Hitchins, 301/687-4102, TDD 301/687-7955.

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 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

## 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

## 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

## 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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# 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

ing 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-

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 din-

### Undergraduate Tuition & Fees 2000- 2001

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

#### Mandatory Fees

Activities Fee	\$65	\$65	\$130
Athletic Fee	165	165	330
Auxiliary Facilities Fee	65	65	130
Student Union Operating Fee	90	90	180
Transportation Fee	10	10	20
<b>Total Fees</b>	<b>\$395</b>	<b>\$395</b>	<b>\$790</b>

#### Total Tuition and Fees

Maryland Residents	\$2,066	\$2,066	\$4,132
Out-of-State Residents	4,641	4,641	9,282

#### Room Charges

Frederick, Westminster	double	\$1,356	\$1,356	\$2,712
All other halls	double	1,325	1,325	2,650
	small single	1,463	1,463	2,946
	large single	1,587	1,587	3,174

#### Board Charges

Carte Blanche with \$200 bonus bucks	\$1,308	\$1,308	\$2,616
Block Plan -150 meals w/\$100 bonus bucks	1,264	1,264	2,528
14-meal with \$100 bonus bucks	1,196	1,196	2,392
12-meal with \$250 bonus bucks	1,298	1,298	2,596
10-meal with \$75 bonus bucks	1,093	1,093	2,186
Straight 10-meal	1,012	1,012	2,024

#### Total tuition, fees, room and board\*

<b>Maryland Residents</b>	<b>\$4,730</b>	<b>\$4,730</b>	<b>\$9,460</b>
<b>Out-of-State Residents</b>	<b>7,305</b>	<b>7,305</b>	<b>14,610</b>

\*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**

Accounting (ACCT 305)	\$25
Art (ART 236, 307, 407, 414)	\$25
Art (ART 202, 402)	\$20
Art (ART 207, 221, 421, 240, 440, 232, 432, 235, 435, 212, 412, 300)	\$10
Biology (BIOL 109, 149)	\$20
Business Admin. (BUAD 320)	\$25
Chemistry (CHEM 100, 101)	\$20
Computer Sci. (COSC 100, 110, 220, 230)	\$25
Geography (GEOG 103, 113)	\$20
Mathematics (MATH 102)	\$100
Physical Sci. (PHSC 101, 203)	\$20
Physics (PHYS 215, 261)	\$20
Sociology (SOCI/SOWK 310)	\$25

**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.

Title of Test	FSU Course Equivalent(s)	Credit Hours Awarded
ENGLANG/COMP	Score of 3 or 4: ENGL 101 Freshman Composition	3
	Score of 5: ENGL 111 Honors: Freshman Composition	3
	Score of 3: ENGL 101 Freshman Composition	3
ENGLIT/COMP	Score of 4: ENGL 101 Freshman Composition and ENGL 150 Intro. to Literature	3
	Score of 5: ENGL 111 Honors: Freshman Composition and ENGL 150 Intro to Literature	3
	ENGL 150 Intro. to Literature	3
ENGLIT	ENGL 150 Intro. to Literature	3
FRENLANG	FREN 101 Basic Elem. of French I	3
	FREN 102 Basic Elem. of French II	3
SPANLANG	SPAN 101 Basic Elem. of Spanish I	3
	SPAN 102 Basic Elem. of Spanish II	3

### 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.

Course		Credit Earned
PSYC 386	Drugs & Human Behavior	3
PSYC 387	Addictions Treatment Delivery	3
PSYC 388	Treatment Issues & Theory in Addictions	3
PSYC 389	Ethics for the Addiction Counselor	1

### 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 (see table below);
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.

3. If you are readmitted or reinstated on appeal on an individual probation contract, you will be allowed to continue to enroll on academic probation as long as you meet the conditions specified each semester.

### Minimum Academic Progress Standards

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

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

<sup>1</sup>Total hours earned = all earned hours, graded and ungraded, including transfer credits.

<sup>2</sup>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 379              |
| 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.

### For Biotechnology Option

Hours Required in Biology:	36
Hours Required in Other Departments:	39
<b>Total Hours Required:</b>	<b>75</b>

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.

### 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 (*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

# 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.

#### For Pre-professional Program

Hours Required at Frostburg State University:	90
Hours Required at UM School of Pharmacy:	30
<b>Total Hours for B.S. in Chemistry:</b>	<b>120</b>

### 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.



# 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.

	For Major	For Minor	For Info. Systems Concentration
Hours Required in Computer Science:	42	18	39
Hours Required in Other Departments:	21	0	24
<b>Total Hours Required:</b>	<b>63</b>	<b>18</b>	<b>63</b>

## Summary of Requirements for Major/Minor in Computer Science

Major	Minor
<b>1. Core Courses:</b>	
<i>(18 hours)</i>	<i>(9 hours)</i>
COSC 100/110 Intro. to Computer Science	COSC 100/110 Intro. to Computer Science
COSC 200 Computer Science I	COSC 200 Computer Science I
COSC 201 Computer Science II	COSC 201 Computer Science II
COSC 305 Computer Ethics	
COSC 325 Software Engineering	
COSC 365 Digital Logic & Computer Design	
<b>2. Required Advanced Courses:</b>	
<i>(12 hours)</i>	
COSC 310 Data Structures & File Organization	
COSC 450 Programming Language Structures	
COSC 460 Operating Systems Concepts	
COSC 470 Compiler Designs and Constructions	
<b>3. Other Required Courses:</b>	
<b>Mathematics</b> <i>(15 hours)</i>	
MATH 200 An Introduction to Discrete Math	
MATH 226, 227 Calculus I, II <i>(226 - GEP BR Math)</i>	
MATH 380 Introduction to Probability & Statistics	
<i>One additional math course at the 300 or 400 level except:</i>	
MATH 340 Fundamental Concepts of Geometry	
<i>or</i> MATH 461 History of Mathematics	
<b>Other</b> <i>(6 hours)</i>	
CMAT 102 Introduction to Speech Communication	
ENGL 338 Technical Writing <i>(GEP BR Adv. Comp.)</i>	
<b>4. Electives:</b>	
<i>(12 hours)</i>	<i>(9 hours)</i>
<i>Four additional computer science courses from:</i>	<i>Three additional computer science courses.</i>
COSC 335 Network Architecture Design	<i>Two must be at the 300-level or above.</i>
COSC 345 The Internet and Multimedia Communications	
COSC 350 Computer Organization & Assembly Language	
COSC 390 Topics in Modern Programming Languages	
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 Computer Graphics	
COSC 485 Theory of Computation	
COSC 491 Seminar in Computer Science	
COSC 494 Field Exp. in Computer/Information Science	
COSC 499 Individual Problems in Computer Science	

## Requirements for Major Concentrating in Information Systems

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### 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

	For Major	For Minor	For Teaching Cert. Option
Hours Required in Foreign Languages & Literature:	30	18	30
Hours Required in Other Departments:	variable	0	variable
<b>Total Hours Required:</b>	<b>30-variable</b>	<b>18</b>	<b>72.5-variable</b>

## 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.

## 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

#### 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 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.

#### Teaching Certification

Hours Required in HPE:	59
Hours Required in Other Departments:	46
<b>Total Hours Required:</b>	<b>105</b>

### 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**

*(40 hours)*

**Pre-Phase I** EDUC 201 Students, Teachers, and Learning Environments

*(3 hours)*

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

**Phase II** REED 317 Content Area Reading  
*(14 hours)* 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

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

### 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

	For Major
Hours Required at Allegany College of Maryland	65-70
Hours Required at Frostburg State University	58-70
<b>Total Hours Required</b>	<b>127-140</b>

## 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 <i>and</i> Introduction to Sociology
Humanities:	Introduction to Philosophy <i>or</i> 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)



**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

# Mathematics

## Mathematics Teaching Certification Option

**For Teaching Certification Option**

Hours Required in Mathematics:	36
Hours Required in Other Departments:	45.5
Total Hours Required:	81.5

### Summary of Requirements for Major in 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.

**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

### Major

#### Concentration in Therapeutic Recreation

#### Coordinator:

Robert B. Kauffman,  
Associate Professor,  
Department of Health,  
Physical Education &  
Recreation

- You are required to complete RECR 497, which includes 120 hours of practical experience (not including internships), and to attend one state, regional or national conference during your junior or senior year.
- Current certification in CPR and first aid is required.
- The therapeutic recreation concentration prepares you to sit for the National Council for Therapeutic Recreation Certification Exam.

#### Therapeutic Recreation Concentration

Hours required in RECR:	45
Hours required in other departments:	33
<b>Total Hours Required:</b>	<b>78</b>

### 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 (*GEP 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

- 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*

## Women's Studies

### Minor

### 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*)

# Social Science

## For Teaching Certification Option

Hours required in Social Sciences:	69-70
Hours required in other fields:	45.5
<b>Total Hours Required:</b>	<b>114.5-115.5</b>

## Teaching Certification Option

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

### Major

#### 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).

#### 1. Introductory Level Courses:

(42 hours)

##### **Economics** (6 hours)

ECON 201 Principles of Economics (Macro) (GEP LAC Group D)

ECON 202 Principles of Economics (Micro)

##### **Geography** (6 hours)

GEOG 104 Human Geography (GEP LAC Group D)

or GEOG 114 Honors Human Geography (GEP LAC Group D)

GEOG 301 Geography of North America

or GEOG 302 Geography of Maryland

##### **History** (12 hours)

*Both of the following sequences:*

HIST 103, 104 History of the United States

and HIST 113, 114 World History

##### **Political Science** (6 hours)

POSC 110 Introduction to American Politics (GEP LAC Group D)

or POSC 112 Honors Introduction to American Politics (GEP LAC Group D)

POSC 211 Introduction to World Politics (GEP LAC Group D)

or POSC 213 Honors Introduction to World Politics (GEP LAC Group D)

or POSC 231 Introduction to Comparative Politics

##### **Psychology** (6 hours)

PSYC 150 General Psychology (GEP LAC Group D)

or PSYC 151 Honors General Psychology (GEP LAC Group D)

*and 1 from among:*

PSYC 210 Child Psychology

PSYC 212 Adolescence and Adulthood

PSYC 220 Psychology of Women

##### **Sociology** (6 hours)

SOCI 100 Introduction to Sociology (GEP LAC Group D)

or SOCI 111 Honors Introduction to Sociology (GEP LAC Group D)

*and 1 from among:*

SOCI 220 Racial and Cultural Minorities

SOCI 224 Cultural Anthropology

SOCI 306 Sociology of African Americans

#### 2. Tracks: (18 - 19 hours)

*Select 2 of the following departmental patterns. Choose the Research Methods Course in one of the selected tracks. Research Methods Courses include the following:*

ECON 450 Quantitative Economics

GEOG 380 Geographic Research Methods and Field Techniques

HIST 302 Research Methods (taken with ENGL 310)

POSC 311 Research Methods

PSYC 300 Research Methods I

SOCI 311 Basic Research Methods

##### **Economics** (9 hours)

*Select from:*

ECON 300 History of Economic Thought

ECON 303 American Economic Development

ECON 306 Money and Banking

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 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 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)**

SOSC 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.

### 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 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.
- 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:**

COSC 410, 430, 435, 440, 445, 455, 465, 475, 480 and 485.

### 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.

FSU Course. Properties, characteristics and fundamental equations of gases and vapors. Application of the first and second laws of thermodynamics in the analysis of basic heat engines, air compression vapor cycles. Flow and non-flow processes for gases and vapors. Variable. *Prerequisites: PHYS 261 and PHYS 262.*

**ENME 332 Transfer Processes** 3 cr.

FSU Course. The principles of heat transfer. Conduction in solids. Convection. Radiation. Modern measurement techniques. Computer analysis. Two hrs. lecture and two hrs. lab per week. Spring. *Prerequisite: ENME 331.*

## English

**Prerequisite change for the following courses:**

- ENGL 270 European & Neo-European Literature
- ENGL 271 Asian & African Literature
- ENGL 303 American Romantic Literature
- ENGL 307 16th- & 17th-Century English Literature
- ENGL 313 English Romantic Literature
- ENGL 322 The Restoration and Augustan Age
- ENGL 323 Victorian Literature
- ENGL 332 The Age of Johnson
- ENGL 352 American Colonial Literature
- ENGL 404 Modern British Fiction
- ENGL 407 American Fiction: 1865-1922
- ENGL 408 Modern and Post-Modern American Fiction
- ENGL 411 Chaucer and His Times
- ENGL 424 20th-Century British Poetry
- ENGL 426 Modern American Poetry

*Prerequisite: ENGL 101 or 111 or equivalent*

## Foreign Languages & Literature

### French

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

Fundamental skills: listening, speaking, reading, writing. Emphasis on active performance. Language laboratory. Not for students with high school or college French except by special placement. Variable.

**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 Regime" 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.**

Continued development of basic skills. Emphasis on active performance. Language laboratory. Variable. *Prerequisite: SPAN 101.*

**SPAN 211 Spanish Grammar, Composition, & Conversation I 3 cr.**

Intensive grammar, oral command of the language, introduction to expository writing. Language laboratory. For students with at least two years of high school Spanish, or SPAN 102. 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 equivalent.*

## 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, readings 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 equations 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 mathematics, nor may the credits be used to fulfill the 120 hr. minimum toward graduation. *MAY NOT BE USED TO SATISFY THE REQUIREMENTS FOR MAJOR OR MINOR IN MATHEMATICS. Note: Students are placed in this course based upon results of Mathematics Placement Test administered by the University and must pass this class within their first two semesters of enrollment or be academically dismissed.*

## 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 between spoken and sung languages explored and physical processes required to produce the various sounds investigated and practiced. (Required for vocal performance and choral education majors).

## 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 development. 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 diagnosis. *Prerequisites: PSYC 386, one 3 credit helping relationships course recommended, or permission of instructor.*

**PSYC 389 Ethics for the Addiction Counselor** 1 cr.  
Addresses legal and ethical considerations for addiction counselors. Differences and similarities among addiction and other helping professionals discussed. Required course for Maryland Addictions Counselor certification. *Prerequisites: PSYC 150/151, one 3 credit helping relationships course recommended, or permission of instructor.*

**PSYC 404 Psychology of the Exceptional Child** 3 cr.  
Developmental and behavioral characteristics of exceptional children as they relate to inclusion, classroom management, federal laws and psychological treatment. Topics on exceptional children include: mental retardation, physical disabilities, giftedness, emotional problems and autism. *Prerequisites: PSYC 210 or 212, or permission of instructor.*

**PSYC 492 Internship Seminar** 3 cr.  
Academic component of internship; requires co-registration in PSYC 495. Full-time interns register for 3 credits of 492 (and 12 credits 495); part-time interns, 3 credits 492 (and 6-11 credits 495). Graded A-F. *Prerequisites: see PSYC 495.*

**PSYC 495 Internship in Psychology** 6 - 12 cr.  
Experiential component of internship. Full-time interns register for 12 credits in 495 and 3 credits in 492 and may not enroll in other courses. Part-time interns register for 6-11 credits in 495 and 3 credits of 492. Graded P/F. *Prerequisites: senior standing; submission of Internship Agreement form to internship director prior to registering; departmental approval.*

**PSYC 497 Senior Seminar** 3 cr.  
An integrated senior-year experience that requires students to use their accumulated skills, knowledge, and ethical sensitivity to critically analyze a new and/or controversial issue in psychology. Integration of previous course material and reflections on one's own experiences in the field of psychology is expected. An integrative research paper is required. Participation in major assessment. Students can repeat this senior seminar more than once if topics are different. First priority given to students who need the course for graduation requirements. Second priority given to seniors. Students may count all senior seminar courses toward the major requirements. *Prerequisites: PSYC 150/151 and 3 additional credits in Psychology or permission of instructor.*

## 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 development. 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 related 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.

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