FROSTBURG STATE UNIVERSITY

2008-2009 Supplement to the 2007-2009 Undergraduate Catalog

FINAL

This supplement describes changes in degree and major requirements that apply to you if you first enroll in college during the 2008-2009 academic year. All other provisions of the 2007-2009 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 2008-2009 academic year.

Table of Contents

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

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 if possible.

Frostburg State University is a constituent institution of the University System of Maryland.

Accreditation

Frostburg State University is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104 (267.284.5000). The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation.

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

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

Other Specialized Accreditors:

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

FSU's Teacher Education Report Card

Contextual Information

Total number of students admitted into teacher preparation, all specializations, AY 2006-07	626
Number of students in supervised student teaching	209
Number of faculty members who supervised student teachers:	
Full-time faculty in professional education	17
Part-time faculty in professional education but full-time in the institution	4
Part-time faculty in professional education, not otherwise employed by the institution	11
Total faculty student teaching supervisors	32
Student teacher/faculty ratio	6.5
The average number of student teaching hours per week required*	35
The total number of weeks of supervised student teaching required	20
Average total number of hours required	700

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

Aggregate and Summary Institutional-level Pass-rate Data: Regular Teacher Preparation Program

Academic Year: *2006-2007*   Number of Program Completers: *155[1]*

Type of Assessment[2]	Number Taking Assessment[3]	Number Passing Assessment[4]	Institutional Pass Rate	Statewide Pass Rate
Aggregate - Basic Skills	155	155	100%	99%
Aggregate - Professional Knowledge	146	142	97%	98%
Aggregate - Academic Content Areas**	155	153	99%	99%
Summary Totals and Pass Rates[5]	155	151	97%	97%

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

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

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

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

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

See College of Education web site for detailed report: www.frostburg.edu/colleges/coe/unit_assessment/reporting.html

**Math, English, Biology, etc.

Academic Calendar 2008-2009

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

Fall Semester 2008

Orientation & testing - new non-registered students only	August 28
Advising & registration - new non-registered students only	August 29
Residence Halls open 9 a.m. - new students only	August 31
Residence Halls open 9 a.m. - continuing students	September 1
Labor Day - no classes	September 1
Classes begin	September 2
Late registration/drop/add	September 2-9
Last day to add classes	September 9
Family Weekend	September 26-28
Homecoming Weekend	October 3-5
Last day for **graduate students** to withdraw with W	October 14
Last day for undergraduate grade changes (including incompletes)	October 14
Mid-semester warnings distributed to undergraduate students	October 15
Last day for undergraduate students to withdraw with W	October 28
Intensive courses begin	October 29
Spring 2009 registration, without payment	November 3-21
Intersession registration, with payment	Nov. 3 - Dec. 12
Residence Halls close - 7 p.m.	November 25
Thanksgiving Recess	November 26-30
Residence Halls open - noon	November 30
Classes resume	December 1
Last day for **graduate students** for removal of incomplete grades	December 12
Last day to withdraw from courses with WF	December 12
Last day of classes	December 12
Reading Days/Common Finals	December 13-14
Late Intersession registration, with late fees	Dec. 13-Jan. 6
Final Exams	December 15-19
Intersession course cancellations	December 17
Residence Halls close 7 p.m.	December 19
Commencement	December 20

Spring Semester 2009

Testing, 1:00 p.m., new non-registered students only	January 22
Advising and Registration - new non-registered students only	January 23
Residence Halls open-9 a.m.	January 25
Classes begin	January 26
Late registration/drop/add	January 26-30
Last day to add classes	January 30
Last day for undergrad. grade changes (including incompletes) for Fall08, Inter09	March 6
Last day for **graduate students** to withdraw from courses with W	March 6
Mid-semester warnings distributed to undergraduate students	March 9
Residence Halls close - 7 p.m.	March 13
Spring Break	March 15-22
Residence Halls open - 12 noon	March 22
Classes resume	March 23
Last day to withdraw from courses with W - undergraduate students	March 27
Fall 2009 registration, without payment	Mar. 30-Apr. 17
Summer sessions registration, with payment	Mar. 30-May 1
Intensive Courses begin	April 1
Late registration for summer sessions for continuing students, with late fees	May 2-19
Summer sessions course cancellations for sessions beginning May 18	May 6
Last day for **graduate students** for removal of incomplete grades	May 8
Last day to withdraw from courses with WF	May 8
Last day of classes	May 8
Reading Days/Common Exams	May 9-10
Final Exams	May 11-15
Honors Convocation - 7:30 p.m.	May 15
Residence Halls close 7 p.m.	May 15
Commencement	May 16
First day of Summer Session I	May 18

Intersession 2009

Residence halls open, noon	Jan. 4
Classes begin	Jan. 5
Late registration,/drop/add	Jan. 5-6
Last day to add class	Jan. 6
Last day to withdraw with "W"	Jan. 13
Martin Luther King Day, no classes offices closed	Jan. 19
Last day to withdraw with "WF"	Jan. 23
Last day of classes	Jan. 23

Summer Sessions 2009

First Summer Session begins May 18
See the Summer Session Schedule Booklet for complete calendar.

Calendar subject to change without notice.

Expenses 2008-2009

Replaces page 15 of the 2007-2009 Undergraduate Catalog

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

Tuition

Tuition for legal residents of Maryland is $2,500 per semester plus all other applicable fees at the University. Tuition for out-of-state students is $7,598 per semester plus all other applicable fees at the University. Tuition for residents of the contiguous counties* is $5,678 per semester plus all other applicable fees at the University.

Evening and part-time tuition is $207 per credit hour for resident undergraduate students, $427 per credit hour for non-resident undergraduate students, $317 per credit hour for resident graduate students, and $364 per credit hour for non-resident graduate students.

Summer tuition is $207 per credit hour for resident undergraduate students, $427 per credit hour for non-resident undergraduate students, $317 per credit hour for resident graduate students and $364 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 $6,626 per year to $8,100 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.

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

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 $75 per semester for full-time students or $11 per credit hour for part-time students is collected to support student publications, the campus radio station, social activities, student government and a balanced program of cultural events.

Athletic Fee: An athletic fee of $263 per semester for full-time students and a $29 per credit hour fee for part-time students is used to support the University's program in intercollegiate and intramural athletics.

Undergraduate Tuition & Fees 2008- 2009

Tuition - full time (12 cr. or more)	1st Semester	2nd Semester	Total
Maryland Residents	$2,500	$2,500	$5,000
Out-of-State Residents	7,598	7,598	15,196
Contiguous County Residents	5,678	5,678	11,356

Mandatory Fees			
Activities Fee	$75	$75	$150
Athletic Fee	263	263	526
Auxiliary Facilities Fee	270	270	540
Student Union Operating Fee	116	116	332
Technology Fee	72	72	144
Transportation Fee	10	10	20
Total Fees	$807	$807	$1,614

Total Tuition and Fees			
Maryland Residents	$3,307	$3,307	$6,614
Out-of-State Residents	8,405	8,405	16,810
Contiguous County* Residents	6,485	6,485	12,970

Room Charges				
Frederick, Westminster	double	$1,760	$1,760	$3,520
All other halls	double	1,719	1,719	3,438
	small single	2,084	2,084	4,168
	large single	2,261	2,261	4,522

Board Charges			
Gold Plan with $200 bonus bucks	$1,789	$1,789	$3,578
Silver 19 - 19 meals w/$100 bonus bucks	1,663	1,663	3,326
14-meal with $100 bonus bucks	1,597	1,597	3,194
12-meal with $250 bonus bucks	1,658	1,685	3,316
10-meal with $75 bonus bucks	1,394	1,394	2,788

Total tuition, fees, room and board**			
Maryland Residents	**$6,856**	**$6,856**	**$13,712**
Out-of-State Residents	**11,954**	**11,954**	**23,908**
Contiguous County* Residents	**10,034**	**10,034**	**20,068**

**based on $3,520 room rate and $3,578 board rate

All fees subject to change.

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

Student Union Operating Fee: A Student Union operating fee of $116 per semester for full-time students and $13 per credit hour for part-time students is charged for operating expenses of the Lane Center.

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

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

Other Fees and Expenses

All other fees, payment and refund procedures remain as stated in the 2007-2009 Undergraduate Catalog.

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

Upcoming Changes to Financial Aid Process

The Financial Aid Office would like to notify all students about changes in the financial aid process for the 2008-2009 academic year. The Financial Aid Office will begin sending all financial aid award notifications to current students via email around the first week of June. Due to a change in federal regulations, every student will now be required to sign and return a form confirming that they wish to accept their loan(s) each year. This is a change from the 2007-2008 award year. No loans will appear as anticipated financial aid and no loan funds can be disbursed until the Financial Aid Office has received written confirmation from each student expressing his or her wish to have a student loan processed. A loan confirmation form will be attached to your award notification e-mail. Please complete this form and return it to the Financial Aid Office as soon as possible to avoid processing delays. In addition to signing and returning a loan confirmation form to the Financial Aid Office, some students will also have to complete a new Master Promissory Note (MPN) for their loans due to recent changes in federal legislation and the banking industry. These students will be notified by the Financial Aid Office in the next few months. If you receive this notice, you must go onto the Financial Aid Office's Web site, choose a new lender, and complete a new MPN. You will need your FAFSA PIN and two references to complete this process. Please watch your mail and check your e-mail for these and other important documents and announcements.

Credit-by-Exam and Other Non-Traditional Learning

Title of Exam	FSU Course Equivalent(s)	Credit Hrs. Awarded
Advanced Placement Tests (AP)		
Music Theory	*Score of 3 minimum:*	
	MUSC 102 Theory I	3
Aural Subscore	*Score of 3 minimum:*	
	MUSC 104 Aural Skills I	1
College Level Examination Program (CLEP)		
French Language, Level II	*Score of 59 minimum:*	
	FREN 101, 102, 211, 212	12
Spanish Language, Level II	*Score of 63 minimum:*	
	SPAN 101, 102, 211, 212	12
International Baccalaureate Programme		
Contact information: Toll free 1.866.826.4262	Fax: 604.733.8970	Web: http://www.ibo.org		
Language B (French)	*Score of 4 (Standard):*	
	FREN 101 Basic Elements of French I	3
	Score of 5, 6, or 7 (Standard):	
	FREN 101 and 102	6
	Basic Elements of French I and II	

Academic Eligibility for Athletes

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

1. Be regularly admitted as a degree-seeking student.

2. At the time of participation in intercollegiate athletics, be registered for and maintain enrollment in 12 or more credit hours, with the following exceptions:

   a. You may practice and compete during the vacation period immediately preceding initial enrollment provided you meet all other eligibility requirements.

   b. If you are an undergraduate student enrolled in the final semester of a baccalaureate program, who is certified as enrolled in all courses required to complete degree requirements by the Registrar's Office, you may practice and compete while enrolled in less than 12 credit hours with the approval of the Director of Special Academic Services.

   c. If you are a graduate student who previously attended this institution as an undergraduate, you may practice and compete while enrolled in a minimum of nine credit hours with the approval of the Director of Special Academic Services.

3. Complete the maximum of four seasons of competition in any one sport during the first 10 semesters (15 quarters) of full time enrollment in a collegiate institution.

4. If you are a transfer student who has ever participated in intercollegiate athletics:

   a. Be certified by the transfer institution as academically and athletically eligible had you remained at that institution. If you transferred from a four-year institution to a two-year college and then to Frostburg State University, you must have been both academically and athletically eligible had you remained at the previous four-year institution, or you must have completed 24 semester hours (or 36 quarter hours) of transferable degree credit and at least two semesters (or three quarters) of attendance at the two-year institution, in order to be immediately eligible at FSU, or

   b. Complete two full time semesters in residence at Frostburg State University before being eligible to compete.

5. If you are a continuing or readmitted student:

   a. Pass a minimum of 24 credits since the beginning of the last season of competition in a particular sport, with the following exceptions:

      1) You may request that credits earned in excess of the minimum 24 credits per year in previous years be counted to meet the 24-credit requirement. Each "banked" credit may be counted only once. Credits earned in repeated courses that are not repeatable for credit may be counted only once. Banking must be approved by the Director of Special Academic Services.

      2) You may receive an exception to the 24-credit rule if you can document circumstances outside your control which interfered with your ability to complete the required credits in a particular year, but you are still making satisfactory progress towards graduation. Rules established by the NCAA for Divisions I and II serve as guidelines for acceptable circumstances. To request an exception, you must submit a written appeal to the Athletics Program Advisory Group.

   b. By the beginning of the fifth full-time semester, declare an academic major as proof of normal progress towards the degree.

   c. Meet the minimum academic progress standards defined for your academic level (*see table on this page*), with the following exceptions:

      1) If you are ineligible at the beginning of a semester, you may become eligible mid-semester only due to:

         a) Successful completion of a course in which you earned an incomplete (I) grade.

         b) An official grade change.

         c) A grade change due to recognition of an institutional error.

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

      2) You may request a waiver of the minimum GPA requirement (for an FSU GPA between 1.75-1.99 only) if compelling circumstances are present. Each request shall be considered on its own merits, independent of any other previous request. To insure consistency, waiver requests must be submitted to the Athletics Program Advisory Group. A record is kept of all waiver applications and the decisions rendered. Decisions are sent to the conference office as well.

   d. If you are allowed to re-enroll on academic probation or based on a successful appeal of academic dismissal, or you are readmitted on academic probation, you will not be allowed to participate in athletics unless your Frostburg State University cumulative grade point average meets the minimum specified above for the number of semesters of enrollment, and unless you have earned a total of 24 credits since the beginning of the last season of competition in a particular sport.

6. Requests for the application of the exceptions specified above must be submitted to the individual or committee listed. Requests for waivers of NCAA regulations must be submitted to the Director of Athletics for approval and transmission to the appropriate authorities.

Minimum Academic Progress Standards for Athletes

Semester at Frostburg State[1]	Minimum FSU Cumulative GPA[2]
First & Second	1.65
Third or more	2.00

[1]Semester at Frostburg State = number of semesters enrolled at FSU, including current semester and excluding summer and intersession.

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

Policy on Student Classification For Admission and Tuition Purposes

(Approved by the Board of Regents August 28, 1990; Amended July 10, 1998; Amended November 27, 2000; Amended April 11, 2003; Amended June 23, 2006; Amended February 15, 2008)

I. POLICY

A. Purpose

To extend the benefits of its system of higher education while encouraging the economical use of the State's resources,[1] it is the policy of the Board of Regents of the University System of Maryland (USM) to recognize the tuition categories of in-state and out-of-state students for the purpose of admission and assessing tuition at USM institutions.

B. Burden of Proof

The person seeking in-state status shall have the burden of proving by clear and convincing evidence that he or she satisfies the requirements and standards set forth in this Policy. Assignment of in-state or out-of-state status will be made by the applicable USM institution upon a review of the totality of facts known or presented to it.

C. In-state Status

To qualify for in-state tuition, a student must demonstrate that, for at least twelve (12) consecutive months immediately prior to and including the last date available to register for courses in the semester/term for which the student seeks in-state tuition status, the student had the continuous intent to:

1. Make Maryland his or her permanent home; and
2. Abandon his or her former home state; and
3. Reside in Maryland indefinitely; and
4. Reside in Maryland primarily for a purpose other than that of attending an educational institution in Maryland.

Satisfying all of the requirements in Section II (and Section III, when applicable) of this policy demonstrates continuous intent and qualifies a student for in-state tuition. Students not entitled to in-state status under this policy shall be assigned out-of-state status for admission and tuition purposes.

D. Presumption

Either of the following circumstances raises a presumption that the student is residing in the State of Maryland primarily for the purpose of attending an educational institution and therefore, does not qualify for in-state status under this policy:

1. A student is attending school or living outside Maryland at the time of application for admission to a USM institution, or
2. A student is Financially Dependent on a person who is not a resident of Maryland.

This presumption may be rebutted. The student bears the burden of rebutting the presumption. See "III. Rebuttal Evidence" below.

II. REQUIREMENTS

Before a request for classification to in-state status will be considered, a student must comply with all of the following requirements for a period of at least twelve (12) consecutive months immediately prior to and including the last date available to register for courses in the semester/term for which the student seeks in-state tuition status. The student must demonstrate he or she:

A. Owns or possesses, and has continuously occupied, including during weekends, breaks and vacations, living quarters in Maryland. The student must provide evidence of a genuine deed or lease and documentation of rent payments made. In lieu of a deed or lease, a notarized affidavit from a landlord showing the address, name of the student as occupant, term of residence, and history of rent payments made will be considered. As an alternative, a student may demonstrate that he or she shares living quarters in Maryland which are owned or rented and occupied by a parent, legal guardian or spouse.
B. Has substantially all of his or her personal property, such as household effects, furniture and pets in Maryland.
C. Has paid Maryland income tax on all taxable income including all taxable income earned outside the State and has filed a Maryland tax return.
D. Has registered all owned or leased motor vehicles in Maryland.
E. Possesses a valid Maryland driver's license, if licensed.
F. Is registered to vote in Maryland, if registered to vote.
G. Receives no public assistance from a state other than the State of Maryland or from a city, county or municipal agency other than one in Maryland.
H. Has a legal ability under Federal and Maryland law to live permanently without interruption in Maryland.
I. Has rebutted the presumption that he or she is in Maryland primarily to attend an educational institution, if the student's circumstances have raised the presumption.

III. REBUTTAL EVIDENCE

Satisfying the requirements listed in paragraphs A through I of Section II, does not rebut the presumption that a student is in Maryland primarily to attend an educational institution. To overcome the presumption, a student must present additional evidence.

To determine a student's intent, the University will evaluate evidence of a student's objectively verifiable conduct. Evidence that does not document a period of at least twelve (12) consecutive months immediately prior to and including the last date available to register for courses in the semester/term for which the student seeks in-state tuition status is generally considered an unfavorable factor under this policy. Evidence of intent must be clear and convincing and will be evaluated not only by the amount presented but also based upon the reliability, authenticity, credibility and relevance of the evidence.

The absence of objective, relevant evidence is generally considered an unfavorable factor. A student's statement of intent to remain in Maryland in the future is generally not considered to be objective evidence under this policy.

Additional evidence that will be considered includes, but is not limited to, the following:

A. Source of financial support:
 1. Maryland employment and earnings history through sources beyond those incident to enrollment as a student in an educational institution e.g., beyond support provided by work study, scholarships, grants, stipends, aid, student loans, etc., (Tuition costs will be considered as a student expense only to the extent tuition exceeds the amount of any educational scholarship, grant, student loan, etc.), **or**
 2. Evidence the student is Financially Dependent upon a person who is a resident of Maryland.
B. Substantial participation as a member of a professional, social, community, civic, political, athletic or religious organization in Maryland, including professionally related school activities that demonstrate a commitment to the student's community or to the State of Maryland.
C. Registration as a Maryland resident with the Selective Service, if male.
D. Evidence showing the student uses his or her Maryland address as his or her sole address of record for all purposes including on health and auto insurance records, bank accounts, tax records, loan and scholarship records, school records, military records, leases, etc.
E. An affidavit from a person unrelated to the student that provides objective, relevant evidence of a student's conduct demonstrating the student's intent to live permanently in Maryland.

IV. NON-RESIDENTS WHO MAY TEMPORARILY QUALIFY FOR IN-STATE STATUS

In addition, persons with the following status shall be accorded the benefits of in-state status for the period in which they hold such status:

A. A full-time or part-time (at least 50 percent time) regular employee of USM or a USM institution.

B. The spouse or Financially Dependent child of a full-time or part-time (at least 50 percent time) regular employee of USM or a USM institution.

C. A full-time active member of the Armed Forces of the United States whose home of record is Maryland or one who resides or is stationed in Maryland, or the spouse or a Financially Dependent child of such a person. Students that qualify under this provision will retain in-state status for tuition purposes as long as they are Continuously Enrolled regardless of a change in military assignment or status of the active member of the military.

D. A veteran of the United States Armed Forces with an honorable discharge who, within one year of discharge, presents documentation that he or she attended a secondary school in the State for at least three years, and graduated or received the equivalent of a high school diploma from a secondary school in the State. The veteran must present documentation and register at a USM institution within one year of discharge for this provision to apply.

E. For UMUC, a full-time active member of the Armed Forces of the United States on active duty, or the spouse of a member of the Armed Forces of the United States on active duty.

F. A graduate assistant appointed through a USM institution for the semester/term of the appointment. Except through prior arrangement, this benefit is available only for enrollment at the institution awarding the assistantship.

V. PROCEDURES

A. An initial determination of in-state status will be made at the time of admission. The determination made at that time, and any determination made thereafter, shall prevail for each semester/term until the determination is successfully challenged in a timely manner.

B. A change in status must be requested by submitting a USM institution's "Petition for Change in Classification for Tuition". A student applying for a change to in-state status must furnish all evidence that the student wishes the USM institution to consider at the time the petition is due. The due date is based on the deadline set forth by the USM institution at which the student seeks to enroll. If the applicable USM institution has no such deadline, the due date is the last published date to register for the forthcoming semester/term for which the change in classification is sought.

C. The student shall notify the USM institution in writing within fifteen (15) days of any change in circumstances which may alter in-state status.

D. In the event incomplete, false, or misleading information is presented, the USM institution may, at its discretion, revoke in-state status and take disciplinary action provided for by the institution's policy. Such action may include suspension or expulsion. If in-state status is gained due to false or misleading information, the institution reserves the right to retroactively assess all out-of-state charges for each semester/term affected.

E. Each USM institution shall develop and publish additional procedures to implement this Policy. Procedures shall provide that on request the institution President or designee has the authority to waive any requirement set forth in Section II if it is determined that the application of the requirements creates an unjust result. These procedures shall be filed with the Office of the Chancellor.

VI. DEFINITIONS

A. Financially Dependent: For the purposes of this policy, a financially dependent student is one who is claimed as a dependent for tax purposes.

B. Parent: A parent may be a natural parent, or, if established by a court order recognized under the law of the State of Maryland, an adoptive parent.

C. Guardian: A guardian is a person so appointed by a court order recognized under the law of the State of Maryland.

D. Spouse: A spouse is a partner in a legally contracted marriage.

E. Child: A child is a natural child or a child legally adopted pursuant to a court order recognized under the law of Maryland.

F. Regular Employee: A regular employee is a person employed by USM or a USM institution who is assigned to a State budget line or who is otherwise eligible to enroll in a State retirement system. Examples of categories NOT considered regular employees are graduate students, contingent employees, and independent contractors.

G. Continuous Enrollment:

1. Undergraduate Student - An undergraduate student who is enrolled at a USM institution for consecutive fall and spring semesters, until completion of the student's current degree program or unless on an approved leave of absence or participating in an approved program off-campus.

2. Graduate and Professional - Continuous enrollment for a graduate or professional student is defined by the institution in accordance with program requirement

VI. IMPLEMENTATION

This policy as amended by the Board of Regents on February 15, 2008 shall be applied to all student tuition classification decisions made on or after this date.

[1] *Annotated Code of Maryland, Education Article §12-101.*

FSU Procedure for Residency Status Appeals

Any student who wishes to appeal the decision of residency status previously determined by the Office of the Registrar or the Admissions Office, may do so in writing to the Appeals Board for Residency Status. This board shall consist of representatives designated by the Provost, the Vice President for Student and Educational Services, and the Vice President for Administration and Finance. The appeal will be reviewed by the board members in the order listed. Only by unanimous agreement of the board members will the decision of the Office of the Registrar or Admissions be overruled. Upon request, the President or designee has the authority to waive any residency requirements if it is determined that the student is indeed a permanent resident and application of the criteria creates an unjust result.

A student desiring to appeal should obtain and submit the University System of Maryland "Petition for Change in Classification for Tuition" through the office that made the original residency status decision, the Office of the Registrar or the Admissions Office.

Courses of Study

Art & Design

Major

Changes in Requirements

Hours Required in Art:	63	63
Hours Required in Other Departments:	0	38.5
Total Hours Required:	**63**	**101.5**

Summary of Requirements for BFA in Art & Design

Major

1. Basic Courses:
(15 hours)
ART 104: Two-Dimensional Design
ART 105 Three-Dimensional Design
ART 212 Drawing
ART 412 Advanced Drawing
ART 207 Graphic Design (*Tech. Fluency*)

2. Introductory Studio:
(15 hours)
Choose five courses from:
ART 202 Ceramics
ART 216 Illustration
ART 221 Painting
ART 232 Printmaking
ART 235 Photography
ART 240 Sculpture
ART 307 Computer Graphics or ART 236 Digital Imaging

Note: Students wishing to specialize in Graphic Design must include ART 235, ART 307.
Students seeking certification to teach art must include ART 202, ART 221, ART 232, ART 240.

3. Studio Focus Review:
(0 hours)
ART 291 Studio Focus Review

4. Art History and Critical Studies:
(12 hours)
ART 301 Artistic Traditions: Asia (*GEP Group F*)
or ART 302 Artistic Traditions: Africa and the Americas (*GEP Group F*)
ART 360 Western Art History
ART 408 20th Century Art History
ART 415 Art Criticism

5. Advanced Studio Focus
(18 hours – 12 credit hours in focus and 6 credit hours in secondary area)
Or Dual-Media Studio Focus+
(18 hours – 9 credit hours in focus and 9 hours in secondary area)
ART 402 Advanced Ceramics
ART 416 Advanced Illustration
ART___* Advanced Graphic Design
ART 421 Advanced Painting
ART 432 Advanced Printmaking
ART 435 Advanced Photography
ART 440 Advanced Sculpture

*ART 407 Advanced Graphic Design: Print
*ART 414 Advanced Graphic Design: Interactive Multimedia Design

+ Note: Only students seeking certification to teach art may have a Dual-Media focus in Graphic Design.

6. Senior Portfolio:
(3 hours)
ART 411 Senior Portfolio (*Capstone*) (*co-registration in ART 491 required*)

7. Senior Review:
(0 hours)
ART 491: Senior Review (*co-registration in ART 411 required*)

Business Administration

Major

Minor

Concentrations in:
- finance
    - -corporate finance
    - -financial planning
- general management
- human resource management
- integrated business
- **international business**
- marketing
- small business/ entrepreneurship

- All concentrations may be completed on the Frostburg campus. The concentrations in general management and integrated business may be completed at the University System of Maryland at Hagerstown.
- See the 2007-2009 Undergraduate Catalog for a description of the requirements for the six existing concentrations.

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

Summary of Requirements for Major/Minor in Business Administration

Major	Minor

1. FSU*Business* CBK:

(33 hours)   *(18 hours)*
ACCT 211*   Financial Accounting   ACCT 211   Financial Accounting
ACCT 212*   Managerial Accounting   BUAD 100   Introduction to Business
BLAW 291*   Legal Environment of Business   *or* BLAW 291 Legal Environment of Business
BUAD 105   Professional Development I   MGMT 351   Management of Organizations
MGMT 351*   Management of Organizations   MKTG 361   Principles of Marketing
MGMT 355*   Operations Management   FINA 303   Principles of Finance
MGMT 356*   Leadership & Human Behavior   *or* FINA 370 Corporate Finance
MKTG 361*   Principles of Marketing   *or* FINA 476 Financial Management
FINA 370*   Corporate Finance   MGMT 356   Leadership & Human Behavior
BUAD 400   Professional Development II   *or* BMIS 320 Adv. Computer Applications
MGMT 405*   Business Ethics & Social Responsibility   in Business
MGMT 485*   Business Policy and Strategy (*MGMT and Int'l. Business Capstone*)

2. CBK Courses Outside FSU*Business*:
(18-19 hours)

Communication Studies *(3 hours)*
CMST 102/112*   Introduction to Human Communication

Computer Science *(3 hours)*
COSC 100/110*   Introduction to Computer Science *(Tech. Fluency)*

Economics *(6 hours)*   *(3 hours)*
ECON 201/211* Principles of Economics (Macro)   ECON 200 Basic Economics
   (GEP Group D)   *or* ECON 201/211 Principles of Economics-
ECON 202/212* Principles of Economics (Micro)   (Macro) *(GEP Group D)*

Mathematics *(6-7 hours)*
MATH 106* Algebra with Calculus for Business
   or MATH 220* Calculus for Applications I
   or MATH 236* Calculus I *(Core Skill 3)*
MATH 209/219* Elements of Applied Probability
   and Statistics *(Core Skill 3)*
   or MATH 380* Introduction to Probability and Statistics

3. **Area of Concentration:**
    (27 hours)
    Majors must choose to concentrate in one of the following:
    - Finance (two tracks: corporate finance and financial planning)
    - General Management
    - Human Resource Management
    - Integrated Business
    - **International Business**
    - Marketing
    - Small Business/Entrepreneurship

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

Concentration Coordinator:

Barry Foltos, Assistant Professor, Department of Marketing and Finance

New concentration: International Business

Requirements for Concentration in International Business

1. Core Courses *(51-52 hours)*:
Required of all majors in Business Administration; listed above.
NOTE: MGMT 485 Business Policy and Strategy serves as concentration capstone

2. Required Courses in Concentration *(12 hours):*
BUAD 330 International Business
MGMT 450 International Management
MKTG 460 International Marketing
FINA 477 International Financial Management

3. Foreign Language Requirement *(6 hours):*
The equivalent of 6 (six) FSU credits in grammar or conversation in any *__one__* foreign language.

4. Business Discipline Requirements *(9 hours):*
Complete one of the discipline groups listed below - all three courses must be taken within the same discipline group.

Finance Group *(9 hours)*
FINA 375 Financial Institutions Management
FINA 475 Securities Investment
Select one course from the following:
FINA 476 Financial Management
  or FINA 494 Internship in Finance

Management Group *(9 hours)*
MGMT 357 Human Resources Management
Select two courses from among the following:
MGMT 315 New Business Ventures
  or MGMT 359 Quality Management
  or MGMT 452 Staffing and Development
  or MGMT 494 Internship in Management

Marketing Group *(9 hours)*
MKTG 365 Principles of Selling
MKTG 366 Consumer Behavior
Select one course from among the following:
MKTG 363 Advertising
  or MKTG 364 Merchandising
  or MKTG 466 Services Marketing
  or MKTG 467 Internet Marketing
  or MKTG 494 Internship in Marketing

Concentration in General Management: Change in Requirement

3. Elective Courses
(12 hours)
from among the following:
Any ACCT, ECON, MGMT, MKTG, or FINA courses 300 and above not used to meet CBK or
concentration requirements.
CMST 300 Interpersonal Communication
or CMST 322 Presentational Communication
or CMST 335 Organizational Communication

NOTE: No more than 6 hours of internship credit may be used for this option.

Concentration in Human Resource Management: Change in Requirement

3. Elective Courses
(9 hours)
from among the following:
Any ACCT, ECON, MGMT, MKTG, or FINA courses 300 and above not used to meet CBK or
concentration requirement.
CMST 300 Interpersonal Communication
or CMST 322 Presentational Communication
or CMST 335 Organizational Communication

NOTE: No more than 6 hours of internship credit may be used for this option.

Concentration in Small Business/ Entrepreneurship: Change in Requirement

3. Elective Courses
(6 hours)
from among the following:
Any ACCT, ECON, MGMT, MKTG, or FINA courses 300 and above not used to meet CBK or
concentration requirement.
CMST 300 Interpersonal Communication
or CMST 322 Presentational Communication
or CMST 335 Organizational Communication

Computer Science

Major

Minor

Concentrations in
- information systems
- networks

Certificates in
- computing technology
- software development
- programming
- networking

Professors:
  Chitsaz, Rinard (Chair)
Associate Professor:
  Thiel
Assistant Professor:
  Crall, Song, Zheng
Lecturer:
  M. Flinn

- Computer Science courses must have a grade of C or better to be applied towards major or minor requirements.

- You will be de-registered from any computer science course for which you have not earned a C or better in the prerequisite computer science course(s).

- You may receive credit by examination for the following courses: COSC 100, 240, 350.

- The Department of Computer Science also offers four certificates to students in other majors and community members. (See separate section).

	For Major	For Info. Systems Concentration	For Networks Concentration	For Minor
Hours Required in Computer Science:	50	50	50	20
Hours Required in Other Departments:	24	15-16	24	0
Total Hours Required:	**74**	**65-66**	**74**	**20**

Summary of Requirements for Major/Minor in Computer Science

Major	Minor

1. Core Courses:

(26 hours) · · · · · · · · · · · · · · · · · · · *(11 hours)*
COSC 101 The Discipline of Computer Science COSC 101 The Discipline of Computer Science
COSC 102 Foundations of Computer Science COSC 240 Computer Science I
COSC 240 Computer Science I COSC 241 Computer Science II
COSC 241 Computer Science II
COSC 325 Software Engineering
COSC 365 Digital Logic
COSC 460 Operating Systems Concepts
COSC 489 Computer Science Capstone

2. Required Advanced Courses:

(18 hours)
COSC 310 Data Structures & Algorithm Analysis
COSC 331 Fundamentals of Computer Networks
COSC 350 Low-Level Programming Concepts
COSC 450 Programming Language Principles & Paradigms
COSC 470 Compiler Design and Implementation
COSC 485 Introduction to the Theory of Computation

3. Other Required Courses:

Mathematics *(14 hours)*
MATH 236 Calculus I *(Core Skill 3)*
MATH 237 Calculus II
MATH 350 Linear Algebra I
    or MATH 432 Differential Equations
    or MATH 435 Numerical Analysis
    or MATH 437 Combinatorics and Graph Theory
    or MATH 470 Mathematical Models and Applications
MATH 380 Introduction to Probability & Statistics

Science *(4 hours)*:
BIOL 150   General Biology II
    or CHEM 102 General Chemistry II
    or PHYS 262   Principles of Physics II: Electricity and Magnetism
Students cannot use PHSC 100 to satisfy GEP

Other *(6 hours)*
CMST 102 Introduction to Human Communication
ENGL 338 Technical Writing *(Core Skill 2)*

4. Electives:

(6 hours) · · · · · · · · · · · · · · · · · · · *(9 hours)*
A minimum of 6 hours in at least two courses · *Three additional computer science courses.*
COSC 305 Computer Ethics · *Two must be at the 300-level or above.*
COSC 335 Network Architecture Design
COSC 345 The Internet and Multimedia
  Communications
COSC 390 Topics in Modern Programming Languages
COSC 415 Computer Interfacing
COSC 420 Robotics and Industrial Computer Applications
COSC 431 Secure Computing
COSC 435 Network Implementation and Testing

COSC 440 Database Management Systems
COSC 444 Introduction to Distributed Programming
COSC 445 Network and Distributed System Management
COSC 455 Artificial Intelligence
COSC 465 Computer Systems Architecture
COSC 475 Interactive Computer Graphics
COSC 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

1. **Core Courses:**
   (26 hours)
   COSC 101 The Discipline of Computer Science
   COSC 102 Foundations of Computer Science
   COSC 240 Computer Science I
   COSC 241 Computer Science II
   COSC 325 Software Engineering
   COSC 365 Digital Logic
   COSC 460 Operating Systems Concepts
   COSC 489 Computer Science Capstone

2. **Required Advanced Courses:**
   (15 hours)
   COSC 300 Structured System Analysis and Design
   COSC 335 Network Architecture Design
   COSC 380 Computer-Based Information Systems
   COSC 440 Database Management Systems
   COSC 480 Knowledge-Based Systems

3. **Other Required Courses:**

   Mathematics *(9-10 hours)*
   MATH 200 Introduction to Discrete Mathematics
   MATH 220 Calculus for Applications
       or MATH 236 Calculus I *(Core Skill 3)*
   MATH 209/219 Elements of Applied Probability & Statistics *(Core Skill 3)*
       or MATH 380 Intro. to Probability & Statistics

   Other *(6 hours)*
   CMST 102 Introduction to Human Communication
   ENGL 338 Technical Writing *(Core Skill 2)*

4. **Electives:**
   (9 hours)
   Three additional computer science courses from:
   COSC 305 Computer Ethics
   COSC 320 Business Programming
   COSC 331 Fundamentals of Computer Networks
   COSC 345 The Internet and Multimedia Communications
   COSC 350 Low-Level Programming Concepts
   COSC 390 Topics in Modern Programming Languages
   COSC 431 Secure Computing
   COSC 491 Seminar in Computer Science
   COSC 494 Field Experience in Computer/Information Science
   COSC 499 Individual Problems in Computer Science

5. **Elective in Business**
   (3 hours)
   Any 300- or 400-level course in Business Administration (BUAD, FINA, MGMT, MKTG)

Requirements for Major Concentrating in Networks

1. Core Courses:
   (26 hours)
   COSC 101 The Discipline of Computer Science
   COSC 102 Foundations of Computer Science
   COSC 240 Computer Science I
   COSC 241 Computer Science II
   COSC 325 Software Engineering
   COSC 365 Digital Logic
   COSC 460 Operating Systems Concepts
   COSC 489 Computer Science Capstone

2. Required Advanced Courses:
   (15 hours)
   COSC 331 Fundamentals of Computer Networks
   COSC 335 Network Architecture Design
   COSC 345 The Internet and Multimedia Communications
   COSC 431 Secure Computing
   COSC 435 Network Implementation and Testing

3. Other Required Courses:
   Mathematics *(14 hours)*
   MATH 236 Calculus I *(Core Skill 3)*
   MATH 237 Calculus II
   MATH 350 Linear Algebra I
        or MATH 432 Differential Equations
        or MATH 435 Numerical Analysis
        or MATH 437 Combinatorics and Graph Theory
        or MATH 470 Mathematical Models and Applications
   MATH 380 Introduction to Probability and Statistics
        or MATH 209/219 Elements of Applied Probability and Statistics *(Core Skill 3)*

   Science *(4 hours):*
   BIOL 150   General Biology II
        or CHEM 102 General Chemistry II
   or PHYS 262 Principles of Physics II: Electricity and Magnetism
   Students cannot use PHSC 100 to satisfy GEP

   Other:
   (6 hours)
   CMST 102 Introduction to Human Communication
   ENGL 338 Technical Writing *(Core Skill 2)*

4. Electives:
   (9 hours)
   A minimum of 9 hours in at least three courses:
   COSC 305 Computer Ethics
   COSC 310 Data Structures and Algorithm Analysis
   COSC 350 Low-Level Programming Concepts
   COSC 390 Topics in Modern Programming Languages
   COSC 444 Introduction to Distributed Programming
   COSC 445 Network and Distributed System Management
   COSC 450 Programming Language Principles & Paradigms
   COSC 455 Artificial Intelligence
   COSC 465 Computer Systems Architecture
   COSC 485 Introduction to the Theory of Computation
   COSC 491 Seminar in Computer Science
   COSC 494 Field Exp. in Computer/Information Science
   COSC 499 Individual Problems in Computer Science

Educational Professions

All Teacher Education Programs

For Information Contact:
Office of Unit Assessment
Framptom 203-3

Engineering

Collaborative Programs

Coordinator:
Julie Yi-Zun Wang, Assistant Professor, Department of Physics and Engineering

Engineering

Major

Coordinator:
Mohammed Eltayeb, Chair, Department of Physics and Engineering

Change in Special Admission Criteria

Phase I Admission Requirements (Program Entrance)

3. Passing grade on PRAXIS I as established by the state of Maryland *or* SAT taken after 2005, math and critical reading composite score of 1100; SAT taken between 4/95 and 2005, math and verbal composite of 1100; *or* ACT composite score of 24.

Collaborative Electrical Engineering Discontinued

The mechanical engineering collaborative program between FSU and the University of Maryland, College Park, continues to admit students. The electrical engineering collaborative program has been discontinued. FSU's own engineering program with a concentration in electrical engineering replaces it. The UMCP General Education Program described on p. 105 of the *2007-2009 Undergraduate Catalog* is required ONLY for students in the mechanical engineering collaborative program. Other engineering students should follow the Frostburg State University General Education Program and degree requirements. If you are uncertain about your area of specialization, you should select courses that will meet both UMCP and FSU requirements during the first two years.

New major:

Concentrations	Electrical	Indust Chem	Materials	Management
Hours Required in Engineering	37	20	38	20
Hours Required in Other Departments	52-55	70-72	51-54	70
Total Hours Required	**89-92**	**90-92**	**89-92**	**90**

Mission Statement

The mission of the FSU Engineering Program is to provide excellent undergraduate education in engineering; to establish close partnership with and provide technical knowledge to industry, government, and local business; to contribute to economic development within the state of Maryland, specifically in the Western Maryland region; and to provide related services to the campus community and community at large.

Program Educational Objectives

Within the first few years following graduation, alumni of the Engineering BS program will demonstrate:
- **Broad knowledge** of mathematics, physical science, and engineering science with emphasis in selected concentration areas of engineering to be successful in government, industry, private companies, and interdisciplinary graduate programs;
- **Professional skills** to function in multidisciplinary teams, use modern instruments, computers, and engineering software to solve engineering problems, perform research and participate in design projects;
- **An understanding of professional responsibility** to evaluate their ethical obligations to society, employers, employees, and peers;
- **Motivation for life-long learning** to update their technical knowledge and understanding of societal and contemporary issues.

Program Outcomes

Students will acquire the knowledge and skills needed to demonstrate the learning outcomes assessed throughout the curriculum. When students graduate, they will be able to

a. Apply knowledge of mathematics, science, and engineering;

b. Design and conduct experiments, as well as analyze and interpret data;

c. Design a system, component, or process to meet desired needs;

d. Function on multi-disciplinary teams;

e. Identify, formulate, and solve engineering problems;

f. Demonstrate an understanding of professional and ethical responsibility;

g. Communicate effectively;

h. Demonstrate the broad education necessary to understand the impact of engineering solutions in a global and societal context;

i. Recognize the need for, and engage in, life-long learning;

j. Demonstrate a knowledge of contemporary issues in engineering;

k. Use the techniques, skills, and modern engineering tools necessary for engineering practice.

Summary of Requirements for Major in Engineering

Major

1. Core Courses
(63 hours)
ENES 100 Introduction to Engineering Design
MATH 236 Calculus I
MATH 237 Calculus II
MATH 238 Calculus III
MATH 432 Differential Equations
CHEM 101 General Chemistry I
CHEM 102 General Chemistry II (or CHEM 133)
PHYS 261 Principles of Physics I - Mechanics
PHYS 262 Principles of Physics II - E&M
PHYS 263 Principles of Physics III - Acoustics and Optics
PHYS 264 Principles of Physics IV - Thermo. and Mod. Phys.
PHYS 320 Experimental Physics
ENEE 204 Basic Circuit Theory
ENEE 206 Fund. Digital and Electric Circuits Lab
ENEE 241 Numerical Methods in Engineering
ENME 350 Electronics and Instrumentation I
ENME 351 Electronics and Instrumentation II
PHYS 491 Seminar
ENEE 408 Capstone Design Project

2. Area of Concentration
(26-29 hours)
Majors must choose to concentrate in one of the following areas:

Electrical Engineering *(26-29 hours)*
PHYS 312 Electricity and Magnetism
ENEE 114 Programming Concepts for Engineers
ENEE 244 Digital Logic Design
ENEE 307 Electronic Circuits Lab
ENEE 350 Computer Organization
ENEE 461 Control Systems Lab
ENEE 475 Power Electronics
Two electives from the approved list*

Industrial Chemistry (*27-29 hours*)
CHEM 301 Organic Chemistry I
CHEM 302 Organic Chemistry II
CHEM 320 Quantitative Analytical Chemistry
CHEM 421 Instrumental Analysis
CHEM 441 Physical Chemistry
CHEM 445 Physical Chemistry Lab
Two electives from the approved list*

Materials Engineering *(26-29 hours)*
ENES 102 Statics
ENES 220 Mechanics of Materials
ENES 221 Dynamics
PHYS 311 Thermodynamics
ENME 331 Fluid Mechanics
ENME 332 Transfer Processes
ENME 382 Engineering Materials and Manufacturing
*Two electives from the approved list ***

Engineering Management *(27 hours)*
ACCT 211 Financial Accounting
ACCT 212 Managerial Accounting
ACCT 315 Cost Accounting
ECON 200 Basic Economics *OR* ECON 201 Principles of Economics (Macro) *(GEP Group D)*
MGMT 315 New Business Ventures *OR* MGMT 359 Quality Management
MGMT 351 Management of Organizations
MGMT 355 Operations Management
MGMT 356 Leadership and Human Behavior
MKTG 361 Principles of Marketing *OR* BLAW 291 Legal Environment of Business

*Approved Electives
Any 300 or 400 level course from other engineering concentrations
Any 300 or 400 level PHYS, CHEM, ENEE, ENME, MKTG or MGMT coded course

Environmental Analysis and Planning

Correction in Requirements: Applies to 2007 and 2008 catalogs

2. Courses in Geography:
(46-47 hours)
DELETE GEOG 317 from list of required courses

Take four of six courses:
(Correct Course Title)
GEOG 317 Principles of Geographic Information Science

Ethnobotany

Corrections in Number of Hours Required: Applies to 2007 and 2008 catalogs

	For Major
Total Hours Required:	**87-90**

1. Scientific Foundations
(22 hours)

Health Promotion

Change in course prefix:
All courses are now labeled HLTH instead of HEED or PHEC. Course numbers remain the same.

Minor

Information Technology

Major

Minor

Tracks in
- accounting
- business information technology
- computer security
- graphic arts
- mass communication

See related programs:
- computer science major & minor

   -information systems

   -networks

- certificates in:

   - computing technology

   - software development

   - programming

   - networking

Professor:
   G. Rinard (Chair)
Associate Professor:
   Thiel
Assistant Professors:
   Crall, Song, Zheng
Lecturer:
   M. Flinn

New major and minor

	For Major	For Minor
Hours Required in Comp. Sci. & Info. Tech.:	43-52	18
Hours Required in Other Departments:	15-25	0
Total Hours Required:	**67-68**	**18**

Summary of Requirements for Major/Minor in Information Technology

1. Core Courses:
(15 hours)
COSC 100/110   Introduction to Computer Science *(Tech. Fluency)*
   or COSC 101 The Discipline of Computer Science
COSC 102 Foundations of Computer Science
COSC 130 Introduction to Programming
COSC 305 Computer Ethics
ITEC 315 Programming

2. Required Advanced Courses:
(22 hours)
COSC 300 Structured Systems Analysis and Design
ITEC 312 Human-Computer Interaction
ITEC 345 Database Systems I
ITEC 355 Network Implementation
ITEC 360 Operating Systems
ITEC 470 Security and Risk Management
ITEC 480 Project Management
ITEC 489 Capstone Course

3. Other Required Courses:
(12-13 hours)
CMST 102/112 Introduction to Human Communication
ENGL 338 Technical Writing *(Core Skill 2)*
MATH 209/219 Elements of Applied Probability & Statistics *(Core Skill 3)*
   or MATH 380 Intro. To Probability & Statistics
MATH 220 Calculus for Applications I
   or MATH 236 Calculus I *(Core Skill 3)*

4. Electives:
(6 hours):
Choose a minimum of 6 hours in at least two courses:
ITEC   363 PC Module Installation and Maintenance
ITEC   364 PC Software Installation and Maintenance
ITEC   410 Diversity in the Global Information Technology
ITEC   414 Knowledge Management
ITEC   442 Electronic Commerce
ITEC   445 Database Systems II
ITEC   452 Network Administration and Security
ITEC   462 Emerging Issues and Technologies
ITEC   475 Computer and Cyber Forensics
ITEC   491 Seminar in Information Technology
ITEC   494 Field Experience in Information Technology
ITEC   499 Individual Problems in Information Technology

5. Tracks/Application Areas *(12 hours)***:**
Choose one of the following tracks/application areas:

Accounting
ACCT 211 Financial Accounting
ACCT 212 Managerial Accounting
ACCT 305 Accounting Systems
ACCT 311 Intermediate Accounting I

Business Information Technology
BUAD 100 Introduction to Business
MGMT 351 Management of Organizations
MGMT 356 Leadership and Human Behavior
MGMT 405 Business Ethics and Social Responsibility

Computer Security
IDIS 150 Society and Computer Security
ITEC 452 Network Administration and Security
ITEC 462 Emerging Issues and Technologies
ITEC 475 Computer and Cyber Forensics

Graphic Arts
ART 104 Two-Dimensional Design
ART 105 Three-Dimensional Design
ART 207* Graphic Design
ART 307 Computer Graphics
Students must see department chair for permission to enroll

Mass Communication
MCOM 105 Introduction to Mass Communication
MCOM 212 Video Production Industry
MCOM 246 Intro to Mass Communication Research Methods
MCOM 346 Mass Communication Theory

Requirements for Minor in Information Technology

COSC 101 The Discipline of Computer Science
    or COSC 100 Introduction to Computer Science *(Tech. Fluency)*
COSC 102 Foundations of Computer Science
COSC 130 Introduction to Programming
ITEC 315 Programming
Two additional Information Technology courses at the 300-level or above.

Leadership Studies

Minor

Coordinator:

Elesha Ruminski, Assistant Professor, Department of Communication Studies

Change in minor requirements:

1. Required Core Courses:
(13 credits)
LEAD 101 Introduction to Leadership Studies
CMST 102 Introduction to Human Communication
LEAD 201 Leadership Studies: Theory and Practice
LEAD 401 Citizen Leader

Leadership in Psychology

Certificate

Coordinator:

Megan Bradley, Associate Professor, Department of Psychology

- The Leadership in Psychology certificate includes coursework on the best teaching/learning practices and leadership. You will apply the skills learned by serving as a teaching learning mentor for students enrolled in General Psychology. You will assist the learning of other undergraduates by working with them both individually and in small group online activities. You must apply for acceptance into the certificate program prior to enrolling in the field experience (PSYC 394).

New certificate:

Requirements for Leadership in Psychology Certificate

1. Enroll at Frostburg State University as a degree-seeking student.

2. Complete a minimum of 18 credit hours distributed as follows:

a. Prerequisite Courses
(6 hours)
PSYC 150/151 General Psychology *(GEP Group D)*
PSYC 210 Child Development
or PSYC 212 Adolescence and Adulthood

b. Psychology Courses Related to Group Leadership
(3 hours)
Select one of the following:
PSYC 385 Group Processes
PSYC 414 Theories of Personality
PSYC 418 Social Psychology

c. PSYC 394 Learning Mentor in Psychology Field Experience
(3 hours)
You must apply for approval and receive permission from the department to enroll; thus, only those students who are approved to enroll in PSYC 394 can complete this certificate. Applications and a list of requirements for enrollment are available in the Department of Psychology.

A grade of C or better is required.

d. Electives
(6 hours)
Select any course(s) listed under **b.** above that were not used to meet the Group Leadership requirement and/or enroll in PSYC 394 for an additional 3 to 6 credits (reapplication and departmental approval are required).

Nursing

RN to BSN Completion Program

Collaborative Transfer Program

Major

Coordinator:
Susan B. Coyle, Assistant Professor of Nursing, Department of Chemistry

- The RN to BSN Completion Program does not lead to licensure as a registered nurse.
- If you are interested in a career in nursing but are not licensed as a registered nurse, or enrolled in a program leading to licensure, you should follow the pre-professional program in Nursing Preparation described in the catalog to earn admission to an initial licensure program.
- You cannot minor in nursing.
- You must meet all requirements for the Bachelor of Science (as listed in the catalog).

	For Major
Hours transferred from community college:	30-55
Hours earned with unencumbered RN license:	30
Hours required at Frostburg State:	35-60
Total Hours Required:	**120**

The RN to BSN Program is based on the American Association of Colleges of Nursing's proposed *Essentials of Baccalaureate Nursing Education.* The program is approved by the Maryland Board of Nursing and the Maryland Higher Education Commission, and meets the requirements of the Maryland statewide nursing education articulation agreement. The program design is a collaboration among Frostburg State University (FSU), Allegany College of Maryland (ACM), the Western Maryland Health System, and other regional health care providers. Resources, facilities, and expertise are shared to allow the most efficient delivery of coursework and services and to match students with the most appropriate clinical placements.

The RN to BSN curriculum is designed to increase the registered nurse's knowledge and skills in the areas of leadership, quality improvement, evidence-based nursing practice, nursing informatics, population-focused health promotion and disease prevention, interdisciplinary collaboration, and professionalism. The program will prepare nurses to assume roles in leadership, complex clinical care coordination, and community/public health, and serves as the academic foundation for graduate study.

The program is open to all registered nurses who meet the program admissions criteria: Current enrollment in a nursing program or eligibility for an unencumbered Maryland or compact RN license. The curriculum is based on the Allegany College of Maryland curriculum for initial licensure as an RN, however, admission is open to current students and graduates of any RN associate degree program. Initially, courses will be delivered on a pre-determined rotation to a cohort of students using a blended instructional format (with most coursework offered online) to maximize scheduling flexibility and maintain the student-faculty connection that is essential to academic success.

Program Goal

The RN to BSN Program prepares the registered nurse to be a professional health care practitioner who provides compassionate care that is based on scientific evidence and who serves as the link between the patient (individual, family, community or population) and the health care environment across the lifespan.

Program Objectives

The RN to BSN Program prepares the graduate to

- Utilize critical thinking and creativity to address professional practice and patient care issues.
- Apply leadership concepts and collaborative strategies to the process of nursing care delivery.
- Utilize quality improvement and safety management principles in clinical nursing practice.
- Identify and understand basic elements of nursing research.
- Integrate scientific evidence with clinical judgment and patient preference to improve patient outcomes.
- Safely use information technology to improve patient care.
- Describe the ethical, legal, political, and financial influences on the delivery of patient care.
- Demonstrate interpersonal communication skills and collaborative strategies that support the delivery of interdisciplinary, patient-centered care.
- Provide evidence-based, preventive health care to families, communities, and vulnerable populations in community-based settings.
- Demonstrate the knowledge, skills, and attributes of professional nursing practice.

Summary of Requirements for Major in Nursing

General Education Program
All candidates for the Bachelor of Science in Nursing degree must complete a minimum of 41 credits in general education. Courses may be completed at ACM, FSU, or another institution (except as noted). The FSU course number is specified below. Where a specific course is listed, this is a required course for nursing that meets both major and GEP requirements. Please note that most of the required GEP courses must be completed before enrolling in upper-division nursing courses.

CORE SKILLS

1. ENGL 101 Freshman Composition (1)	3 hours
2. ENGL 308 Social Sciences Advanced Composition (2)*	3 hours
or ENGL 338 Technical Writing (2)*	
or ENGL 339 Scientific Writing (2)*	
3. MATH 102 College Algebra (1)	3 hours

MODES OF INQUIRY
See the description of the FSU General Education Program in the catalog for a list of courses that meet each requirement.

A. The Fine and Performing Arts	3 hours
B. The Humanities	6 hours
C. The Natural Sciences	
CHEM 101 General Chemistry I*	4 hours
BIOL 201 Anatomy and Physiology I (articulated) (1)	4 hours
D. The Social Sciences	
PSYC 150 Introduction to Psychology (1)	3 hours
SOCI 100 Introduction to Sociology (1)	3 hours
E. The FSU Colloquia	3 hours
IDIS 150 Freshman Colloquium *(or a 3 credit interdisciplinary ACM course approved for GEP credit in the "Interdisciplinary and Emerging Issues" category)*	
IDIS 350 Advanced Colloquium (2)	3 hours
or one additional course from Groups A - D	
F. Identity and Difference	3 hours
Total General Education Hours	**41 hours**

(1) Course completed as part of ACM Associate Degree in Nursing and included in most nursing programs. These courses are prerequisites for all upper division Nursing courses.

(2) Course must be completed at FSU or another four-year college at the upper-division level with a grade of C or better.

* Chemistry 101 must be completed prior to enrollment in any upper-division Nursing courses. Advanced composition should be completed prior to or soon after beginning Nursing courses.

Additional Prerequisite Courses+
Courses may be completed at ACM, FSU, or another institution. FSU course number specified below.

BIOL 202 Anatomy and Physiology II (1)	4 hours
BIOL 304 Microbiology (1)	4 hours
HEED 200 Nutrition	3 hours
MATH 209 Elements of Applied Prob & Stats	3 hours
SOWK 375 Human Behavior and the Social Environment	3 hours
or ACM's Psychology 203 Human Growth and Development (1)	
Total Additional Hours	**17 hours**

(1) Course completed as part of ACM Associate Degree in Nursing and included in most nursing programs.

+ Courses listed as Additional Prerequisite Courses must be completed prior to enrollment in any upper-division Nursing (NURS) courses.

Upper Division Credits
TOTAL HOURS FOR UNENCUMBERED RN LICENSE   **30 hours**

Courses that must be completed at FSU*

1. Discipline core courses:

NURS 401 Health Assessment	3 hours
NURS 402 Nursing Research and Evidence-Based Practice	3 hours
NURS 403 Elements of the Professional Nursing Role	3 hours
NURS 404 Nursing Informatics	3 hours
NURS 405 Ethics in Contemporary Nursing Practice	3 hours
NURS 406 Special Topics in Professional Nursing Practice	3 hours
NURS 494 Population-Focused Nursing Practice	6 hours
NURS 496 Capstone	2 hours

2. Courses outside the discipline:
  a. Required:

MGMT 356 Leadership and Human Behavior	3 hours

  b. Electives *(choose one of the following):*   3 hours
  CMST 300 Interpersonal Communication
  HEED 418 Current Issues in Health
  HLTH 330 Epidemiology of Health
  HLTH 430 Methods and Materials for Health Promotion
  HLTH 435 Health Promotion Programming
  MGMT 359 Quality Management
  PSYC 386 Drugs and Human Behavior
  PSYC 430 Health Psychology
  SOCI 367 Sociology of Medicine
  SOWK 468/SOCI 468 Sociology of Later Life

Total Hours in Major: **32 hours**

* Only courses in which a grade of C or better is earned may count towards satisfaction of upper-level major requirements.

New and Revised Course Descriptions

Listed alphabetically by department or program

Art

ART 212 Drawing   **3 cr.**
Fundamental aspects of drawing with emphasis on composition, techniques, and concept. Variety of media techniques and subjects, exploring conceptual and expressive possibilities; drawing as a description of structures within a spatial environment. Two hr. lecture, 2 hr. lab. Every semester.

ART 216: Illustration   **3 cr.**
Drawing and painting techniques to develop technical proficiency with emphasis on observation, composition and imagination. Emphasis on processes pertaining to illustrated visual imagery in editorial, digital, institutional and scientific/environmental themes. Two hr. lecture, 2 hr. lab. Spring. *Prerequisites: ART 212 and ART 104.*

ART 407: Advanced Graphic Design: Print   **3 cr.**
Variety of design problems using Macintosh computers combined with traditional layout and illustration techniques. Emphasis on the historical and functional use of a professional quality portfolio. May be taken no more than 4 times for credit. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites: ART 207, ART 307 and ART 412, or permission of instructor; concurrent enrollment in ART 291 and second advanced course.*

ART 412: Advanced Drawing   **3 cr.**
Continuation of observational figurative and non-figurative drawing. Emphasis on the development of composition, expression, color, use of media and conceptual content. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisite: ART 212.*

ART 414 Advanced Graphic Design: Interactive Multimedia Design   **3 cr.**
Processes include digital imaging, digital video and audio production, animation, and interface design and scripting. Emphasis on the formal, historical, and sociological aspects of interactive design. May be taken no more than 4 times for credit. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites: ART 407 (twice).*

ART 416: Advanced Illustration   **3 cr.**
Professional applications in drawing and illustration related to traditional and digital technology. Assignments present industry-specific problems, which encourage students to examine the transition from conceptualization to execution. Professional portfolio development. May be taken no more than 4 times for credit. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites: ART 212 and ART 216, or permission of instructor.*

ART 499: Independent Study   **1-6 cr.**

Biology

Change in offering schedule:

BIOL 438 Biotechnology Lab   **3 cr..**
Spring.

Computer Science

Changes in course names:

COSC 365 Digital Logic

COSC 450 Programming Language Principles and Paradigms

COSC 470 Compiler Design and Implementation

COSC 485 Introduction to the Theory of Computation

New course:

COSC 102 Foundations of Computer Science   **4 cr.**
Introduction to the foundations of computer science. Topics include memory addressing, computer functions, architectures found in computer science, digital logic circuits, correctness of computer algorithms, finite-state automata, computability, recursion, and O-notation and efficiency of algorithms. Three hrs. lecture, 2 hrs. lab. Every semester. Prerequisite: Level III or above on the mathematics placement test, or a Level II mathematics course.

Change in course name and description

COSC 310 Data Structures and Algorithm Analysis   **3 cr.**
Design and implementation of intermediate and advanced data structures and a rigorous introduction to the asymptotic analysis of algorithms. Topics include Huffman coding trees; binary search trees; splay trees; height-balanced binary search trees; general trees; graphs; hash tables; skip lists; multilists; omega, theta, and omicron notation; and limits to computation. Research paper and presentation required. Fall. *Prerequisites: MATH 236 and a grade of C or better in COSC 241.*

COSC 350 Low-Level Programming Concepts   **3 cr.**
Introduction to assembly language programming and to the architecture of the computer as seen from the programmer's point of view. Topics include the virtual machine concept, data representation, Boolean operations, the instruction execution cycle, memory management, integer and floating-point arithmetic, low-level procedures, interrupt handling, instruction encoding, and the high-level language interface. Every semester. *Prerequisite: Grade of C or better in COSC 240.*

Course Prerequisite Changes

COSC 241 Computer Science II   **4 cr.**
Continues introduction to the methodology of programming from an object-oriented perspective. Design and implementation of data structures used in programming such as linked lists, stacks and queues. Internal sorting and searching. Recursion. Performance analysis of algorithms. Three hours lecture; two hour lab. Every semester. Credit may not be earned for both COSC 201 and COSC 241. *Prerequisite: Grade of C or better in COSC 240 and corequisite of COSC 102.*

COSC 300 Structured Systems Analysis and Design   **3 cr.**
Analysis and design of information processing systems. Topics include system development life cycle: study phase, design phase, development phase, operation phase. Student will design and analyze a simple system. Spring. *Prerequisite: Grade of C or better in COSC 240 or grade of C or better in ITEC 315.*

COSC 305 Computer Ethics   **3 cr.**
Ethical issues related to computing. Includes topics such as responsibility of the computer professional, computerized crime, technology and employment, equitable access to computing, national databases and privacy, software ownership, and responsibilities of the computing profession. Every semester. *Prerequisite: Grade of C or better in COSC 240; or grade of C or better in COSC 100/110 or COSC 101 <u>and</u> a grade of C or better in COSC 130.*

Economics

ECON 410 Resource and Energy Economics　　　　**3 cr.**
Economic analysis of problems and policies affecting natural resource and energy industries and the related impacts on the environment. Analytical economic framework used to study energy, mineral, forest, and fisheries industries. Fall, even-numbered years. *Prerequisite: ECON 202/212 or permission of the instructor.*

Finance

Change in prerequisites:

FINA 476 Financial Management　　　　**3 cr.**
Prerequisite: FINA 370 or ACCT 312.

FINA 494 Internship in Finance　　　　**3 or 6 cr.**
Guided work experience in finance with business, nonprofit, or government organizations. Minimum of 135 clock hours of experience for 3 credits or 270 for 6 credit hours. Academic components include but not limited to one internship paper for 3 credits or two internship papers for 6 credit hours, internship log, and site supervisor's evaluation of the student's performance. Previous experiences are not acceptable for credit. Maximum of 6 credit hours. A 6 credit Internship choice counts as one elective course. Every semester. *Prerequisites: junior or senior standing; department chair's approval.*

Health Promotion

Change in course prefix: You may not receive credit for both a HLTH course and the same course formerly labeled HEED or PHEC.

HLTH 101 Community Health Promotion　　　　**3 cr.**
Introduction to the profession, theories, and practice of health promotion. Spring.

HLTH 125 Health and Culture　　　　**3 cr.**

HLTH 330 Epidemiology of Health　　　　**3 cr.**
Fall.

HLTH 405 Sexuality　　　　**3 cr.**
Content and topics related to sexual and reproductive health relative to the individual and society. Every semester.

HLTH 430 Methods & Materials for Health Promotion　　　　**3 cr.**
Spring. *Prerequisites: 6 hours in HLTH.*

HLTH 435 Health Promotion Programming　　　　**3 cr.**
Fall.

HLTH 483 Field Experience in Health Promotion　　　　**1 to 6 cr.**
Prerequisite: Permission of instructor.

History

HIST 437 History of Korea　　　　**3 cr.**
Survey of Korean history from the foundations of society on the peninsula to modern times. Looks at how Koreans have utilized their historical memory to define themselves. Every third semester beginning spring 2010.

Change in course title:
HIST 458 History of China　　　　**3 cr.**

Information Technology

ITEC 312 Human-Computer Interaction　　　　**3 cr.**
Basic concepts of human-computer interaction, human factors, performance analysis, cognitive processing, usability studies, human-centered software, accessibility, emerging technologies, developing effective interfaces. Variable. *Prerequisites: Grade of C or better in COSC 130 and PSYC 150/151.*

ITEC 315 Programming　　　　**3 cr.**
Fundamental data structures including the use of stacks, queues, graphs and trees; fundamental programming constructs including basic syntax and semantics; object oriented programming; algorithms and problem solving; event-driven programming; recursion. Variable. *Prerequisites: Grade of C or better in COSC 100/110 or grade of C or better in COSC 101 and COSC 130 or permission of the instructor.*

ITEC 345 Database Systems I　　　　**3 cr.**
Introduction to principles of database development focusing on major business functions and benefits of databases, database planning, database models, database design, and database applications. Learn how to approach a real world database project, convert the project requirement to a design and finally implement using a commercial database management system. Variable. *Prerequisite: Grade of C or better in ITEC 315.*

ITEC 355 Network Implementation　　　　**3 cr.**
Foundations of networking, LANs, WANs, service providers, packets, hubs, routers, switches, Internet protocols, layered models, physical layer, security, and application areas. Variable. *Prerequisite: Grade of C or better in COSC 102 and ITEC 315.*

ITEC 360 Operating Systems　　　　**3 cr.**
Fundamentals of operating systems including both Unix and Windows operating systems; architecture and organization; computing infrastructure; enterprise deployment software; firmware; hardware; installation; maintenance; administrative activities; administrative domains. Variable. *Prerequisites: Grade of C or better in COSC 102 and COSC 315.*

ITEC 363 PC Module Installation and Maintenance　　　　**3 cr.**
Managing, maintaining, and troubleshooting PC hardware. Two hrs. lecture, 2 hrs. lab. Variable. *Prerequisite: Grade of C or better in ITEC 360.*

ITEC 364 PC Software Installation and Maintenance　　　　**3 cr.**
Managing, maintaining, and trouble-shooting PC software. Survey of current software applications like MS servers, SAP, Knowledge Management software, and other Enterprise Resource Planning software. Two hrs. lecture, 2 hrs lab. Variable. *Prerequisites: Grade of C or better in ITEC 360.*

ITEC 410 Diversity in the Global Information Technology　　　　**3 cr.**
Issues and influences that information technology (IT) has had on the global society and culture. Changing nature of work, education, government, culture, and society around the world; place of professionals entering the global IT workforce. Global ethical issues such as intellectual property rights, computer-related crime, privacy concerns, public policy issues, and IT influences on global economics. Variable. *Prerequisite: Grade of C or better in COSC 305.*

ITEC 414 Knowledge Management　　　　**3 cr.**
Basic concepts, skills, tools, techniques, and practices of knowledge management in the context of information sciences and information technology. Technologies including intranets, groupware, web logs, content management systems, and collaborative tools in both individual and organizational contexts. Use these KM technologies, review case studies, research methods of knowledge organization, and analyze and evaluate KM processes and systems. Variable. *Prerequisite: Grade of C or better in ITEC 315.*

ITEC 442 Electronic Commerce　　　　**3 cr.**
Develop knowledge of E-commerce concepts and terminology. E-marketplaces, E-commerce economic impacts, market research, company-centric B2B, E-supply chain, corporate portals, E-government, E-learning. Introduction to implementing an e-commerce system. Variable. *Prerequisite: Grade of C or better in ITEC 315.*

ITEC 445 Database Systems II   **3 cr.**
Advanced topics such as database security, importing and exporting data, creating indexes and views, script writing, and performing administrative tasks on a database server. An advanced project implementation is required. Variable. *Prerequisite: Grade of C or better in ITEC 345.*

ITEC 452 Network and Administration Security   **3 cr.**
Basic network management, network configurations; routing fundamentals, basic router troubleshooting; introduction to network security; protocols for security services; securing network systems and applications: email security, web security, IP security and VPN, remote secure login, security in routing, firewalls. Variable. *Prerequisite: Grade of C or better in ITEC 355.*

ITEC 462 Emerging Issues and Technologies   **3 cr.**
Introduction to emerging issues, technology forecasting and analysis; overview of emerging issues and leading technologies in information technology and how they impact information systems, users, the IT labor force and society. Variable. *Prerequisite: Grade of C or better in ITEC 360.*

ITEC 470 Security and Risk Management   **3 cr.**
Security issues, management processes, architecture and models; risk analysis and management; security planning, analysis and safeguards; security policies development and administration; contingency planning, incidence handling and response; security standards and certification processes. Variable. *Prerequisites: At least 90 credits earned and permission of the instructor.*

ITEC 475 Computer and Cyber Forensics   **3 cr.**
Fundamental issues and concepts of computer forensics; aspects of computer and cyber crime; methods to uncover, protect, exploit, and document digital evidence; tools, techniques, and procedures to perform computer and cyber crime investigation. Variable. *Prerequisite: Grade of C or better in ITEC 355 or ITEC 360.*

ITEC 480 Project Management   **3 cr.**
Basic concepts, skills, tools, techniques, and practices of project management in the context of information technology planning and managing information technology projects. Basic phases of the project management life-cycle: Initiating, Planning, Executing, Controlling, Closing. Fundamental project management knowledge areas: Integration, Scope, Time, Cost, Quality, Human Resources, Quality, Risk, and Procurement. Practical experience via usage of project management software tools. Variable. *Prerequisites: At least 90 credits earned and permission of the instructor.*

ITEC 489 Capstone   **1 cr.**
Creation of professional vita, formation of portfolio consisting of student's best examples of programs and research papers. Amalgamation of curricular concepts into a unified entirety. Every semester. *Prerequisites: At least 90 credits earned and completion of all core courses and a grade of C or better in at least two required advanced courses.*

ITEC 491 Seminar in Information Technology   **1-6 cr.**
Group study of advanced topics under faculty supervision; up to 3 credits can apply to major or minor in information technology. Variable. *Prerequisites: Grade of C or better in core courses and written permission of faculty supervisor. DEPARTMENT APPROVAL REQUIRED PRIOR TO REGISTERING.*

ITEC 494 Field Experience in Information Technology   **3 cr.**
Work experience in industry, government, or small business providing an opportunity for practical application of academic training in information technology. The course requirements are: (1) Minimum of 90 hours of field experience; (2) A written report describing in detail the work performed in the field in conjunction with an oral presentation to interested faculty and students; (3) A project paper on a topic related to the work experience. Previous work experience may not be substituted for this course. More than one field experience may be completed, but the number of credits applied to an information technology major is limited to 3. Every semester. *Prerequisites: Junior or senior standing (at least 60 credits earned) and completion of the core courses in information technology with a grade of C or better. DEPARTMENT APPROVAL REQUIRED PRIOR TO REGISTERING.*

ITEC 499 Individual Problems in Information Technology   **1-6 cr.**
Individual study of advanced topics under faculty supervision; up to 3 credits can apply to major or minor in information technology. Students must submit a written proposal to faculty supervisor and department describing topics, time allocation and limitation, objectives, assignment, and projects. Variable. *Prerequisites: Grade of C or better in core courses and written permission of faculty and supervisor. DEPARTMENT APPROVAL REQUIRED PRIOR TO REGISTERING.*

Leadership Studies

LEAD 101 Introduction to Leadership Studies   **3 cr.**
Examines fundamental principles and develops basic skills for effective leadership in group, organization, and community contexts. Spring.

LEAD 201 Leadership Studies: Theory and Practice   **3 cr.**
Introduction to the study of leadership from both theoretical and practical perspectives. Fall. *Prerequisite: LEAD 101 or permission of instructor.*

LEAD 250 The Citizen Leader   **3 cr.**
COURSE DELETED.

LEAD 401 Citizen Leader   **4 cr.**
Theoretical and experiential exploration of the opportunities, obstacles, and benefits involved in becoming engaged in civic life and social change. Requires extensive field experience. Variable. *Prerequisites: CMST 102, LEAD 101, LEAD 201, and 6 credits from approved elective list. Students who have previously earned credit for LEAD 250 cannot earn credit for LEAD 401.*

LEAD 494 Practicum in Leadership Studies   **4 cr.**
COURSE DELETED.

Marketing

MKTG 494 Internship in Marketing   **3 or 6 cr.**
Guided work experience in marketing with business, nonprofit, or government organizations. Minimum of 135 clock hours of experience for 3 credits or 270 for 6 credits. Academic components include but not limited to one internship paper for 3 credits or two internship papers for 6 credit hours, internship log, and site supervisor's evaluation of the student's performance. Previous experiences are not acceptable for credit. Maximum of 6 credit hours. A 6 credit Internship choice counts as one elective course. Every semester. *Prerequisites: junior or senior standing; department chair's approval.*

Nursing

NURS 401 Health Assessment   **3 cr.**
Comprehensive physical, emotional, and social assessment including interviewing and history-taking skills, physical exam skills, and the identification of data-based health problems. Two hrs. lecture, 2 hrs. lab. Blended on-line. Fall.

NURS 402 Nursing Research and Evidence-Based Practice   **3 cr.**
Theory and methods of qualitative and quantitative research to provide basic knowledge for reading and understanding nursing research. Theory and concepts of evidence-based nursing practice including formulating a clinical problem, identifying sources of evidence, using clinical guidelines, disseminating evidence, and motivating a change based on scientific evidence. Blended on-line. Fall. *Prerequisite: Current enrollment in RN to BSN program or eligible for an unencumbered Maryland RN license.*

NURS 403 Elements of the Professional Nursing Role   **3 cr.**
Focuses on the implementation of the professional nursing role within the rapidly changing health care system, including patient-centered

care, interdisciplinary collaboration, the quality and safety of care, and key workplace issues. Blended on-line. Spring. *Prerequisite: Current enrollment in RN to BSN program or eligible for an unencumbered Maryland RN license.*

NURS 404 Nursing Informatics 3 cr.
An introduction to informatics as it applies to nursing practice including language models, selected technologies and their application, the electronic health record, and policies governing privacy, confidentiality, and security. Blended on-line. Spring. *Prerequisite: Current enrollment in RN to BSN program or eligible for an unencumbered Maryland RN license.*

NURS 405 Ethics in Contemporary Nursing Practice 3 cr.
Focuses on increasing the application of ethical decision-making in nursing practice. Critical elements include the development of moral agency, the examination of ethical principles, and the application of these principles in a variety of clinical situations. Blended on-line. Summer. *Prerequisite: Current enrollment in RN to BSN program or eligible for an unencumbered Maryland RN license.*

NURS 406 Special Topics in Professional Nursing Practice 3 cr.
Directed independent study project designed to facilitate application of the nursing process, the elements of evidence-based practice, and the competencies of health professionals as identified by the Institute of Medicine (patient-centered care, interdisciplinary collaboration, quality improvement) to a clinical problem identified by the student. Blended on-line. Summer. *Prerequisites: NURS 402, NURS 403, active, unencumbered Maryland RN license.*

NURS 494 Population-Focused Nursing Practice 6 cr.
Introduction to the role of the professional nurse in promoting health and preventing disease in community groups. Epidemiological, sociological, and environmental concepts examined with a focus on the health status of aggregates and the role of the nurse. Students are assigned to community-based clinical sites and work directly with community preceptors. Three hrs. lecture, 9 hrs. clinical (135 hours total). Blended on-line. Fall. *Prerequisites: NURS 402, NURS 403.*

NURS 496 Capstone Project 2 cr.
Represents the synthesis of theoretical and clinical knowledge and skills for the professional nurse. Focuses on critical thinking, professional collaboration, and community engagement in the planning and implementation of a project designed to meet an identified health need. Blended on-line. Fall. *Prerequisites: NURS 402, NURS 403. Pre- or corequisite: NURS 494.*

Philosophy

PHIL 102 Contemporary Ethical Problems 3 cr.
Ethical issues such as abortion, euthanasia and physician-assisted suicide, the death penalty, censorship of pornography and hate speech, sex and marriage, social and economic justice, world hunger and global poverty, the environment, and the treatment of animals. Every semester. *GEP Group B.*

Psychology

PSYC 394 Learning Mentor in Psychology Field Experience 3 cr.
Supervised opportunity to act as a learning mentor. Strategies for assisted learning. Repeatable for up to 12 credit hours. Only 3 credits may be counted towards psychology major or minor. Every semester. Prerequisites: PSYC 150/151 and 3 additional credits in psychology; submission of application; departmental approval.

Sociology

SOCI 307 African Americans in Appalachia 3 cr.
Examines the rich legacy of African Americans in Appalachia beginning with the Civil War era and ending with the contemporary world. Chronologically arranged and interdisciplinary in perspective, the course features the way in which African Americans have been active agents in shaping regional culture, politics, and economics. Fall. *Prerequisite: SOCI 100/111.*

SOCI 345 Sociology of the Environment 3 cr.
Examines the ambivalent relationship between human society and the natural world. Frames contemporary concerns of environmental crisis within an investigation of societies' multifaceted attitudes toward and interactions with the natural landscape, focusing on the social dimensions of the surrounding natural and human-made environments. Spring. *Prerequisite: SOCI 100/111.*

SOCI 490 Special Topics 3 cr.
In-depth analysis of a topic selected by the instructor; may be repeated for up to 6 credits if topics are substantially different. Variable. *Prerequisites: 6 credits of sociology or permission of the instructor.*

Programs of Study

Accounting*

Addictions Counselor Preparation**

African American Studies

Art & Design*

Art History

Athletic Training*

Biology*
   Biotechnology
   Environmental Science

Business Administration*
   Finance
   General Management
   Human Resources Management
   Integrated Business
   International Business
   Marketing
   Small Business/Entrepreneurship

Chemistry*
   Biochemistry
   Professional Chemistry
   Traditional Chemistry

Child and Family Psychology**

Coaching

Communication Studies*
   Professional Communication
   Interdisciplinary

Computer Print Graphics**

Computer Science*
   Information Systems
   Networks

Computing Technology**

Criminal Justice (Collaborative)*

Cultural Anthropology

Dance

Dental Hygiene Preparation

Dentistry Preparation

Earth Science*
   Environmental Science

Economics*
   Business Economics
   Public Policy Economics
   Quantitative Economics

Educational Professions
   Early Childhood/Elementary Education*
   Elementary Education*
   K-12 Programs
   Secondary Programs
   Secondary/Adult Special Education

Engineering*
   Electrical Engineering
   Engineering Management
   Industrial Chemistry
   Materials Engineering

Engineering - Dual-degree Program

English*
   Creative Writing
   Literature
   Professional Writing

Environmental Analysis & Planning*

Environmental Humanities

Environmental Policy

Ethnobotany*

Exercise & Sports Science*

Film Studies

Finance

Financial Services

Fine Arts

Foreign Languages & Literature*
   French
   Spanish

Forestry

Geography*
   Global Systems Analysis
   Mapping Sciences

Graphic Design

Health & Physical Education*

Health Promotion

Health Science Administration
   (Collaborative)*

History*
   International History
   History of the Americas

Honors Program

Information Technology*

Information Technology Management
   (Collaborative)*

International Area Studies**

International Studies*
   International Business
   International Development
   International Economics
   International Politics

Interpretive Biology and Natural History*

Journalism

Law: Bachelor's/Juris Doctor Program

Law and Society *
   Criminal Justice
   Legal Studies

Law School Preparation

Leadership in Psychology**

Leadership Studies

Liberal Studies*

Management

Marketing

Mass Communication*

Mathematics*

Mathematical Sciences

Mechanical Engineering
     (Collaborative Program)*

Medical Technology Preparation

Medicine Preparation

Music*
   Instrumental Performance
   Music Management
   Vocal Performance

Networking**

Nursing Preparation

Nursing: RN to BSN (Collaborative)*

Occupational Therapy Preparation

Optometry Preparation

Pharmacy Preparation

Philosophy*

Physical Therapy Preparation

Physics*
   Engineering Physics
   Traditional Physics
   Applied Physics (Collaborative BS/MS)

Political Science*

Professional Writing**

Programming**

Psychology*

Public Administration**

Public Relations

Recreation and Parks Management*
   Adventure Sports
   Community Program Delivery
   Hospitality Management & Tourism
   Therapeutic Recreation

Social Science*

Social Work*

Sociology*
   Applied Social Research
   General Sociology

Software Development**

Theatre *
   Acting
   Directing
   General Theatre
   Production/Design

Urban and Regional Planning*

Veterinary Medicine Preparation

Wildlife & Fisheries*

Women's Studies

* major

** certificate program