

This supplement describes changes in degree and major requirements that apply to you if you first enroll in college during the 2014-2015 academic year. All other provisions of the 2013-2015 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 2014-2015 academic year.



2014-2015 SUPPLEMENT

to the 2013-2015 Undergraduate Catalog

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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 Registration Guidelines, with prior notice of changes provided if possible.

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

Academic Calendar 2014-2015

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

Fall Semester 2014

March 24	Registration Guidelines Booklet available
Mar 31 – Apr 18	Fall 2014 Registration Period
April 18	Last day to register without late fees
August 15	Fall tuition payment must be received in Billing Office
August 16	De-registration may occur – late payment begins
August 28	Non-Registered Transfers and Freshmen Testing
August 29	Non-Registered Transfers and Freshmen Advising and Registration
September 1	Labor Day – limited services available. Select offices open afternoon.
September 2	Classes begin
September 2-9	Drop/Add Period and Late Registration (PAWS and academic departments) All unpaid accounts are charged \$60 in late fees
September 9	Last day to add courses
September 22	Last day to file pass/fail option
October 14	Last day for undergraduate grade changes for Spring 2014 and Summer 2014 (including removal of “I” grades)
October 14	Last day for graduate students to withdraw from courses with a “W”
October 15	Mid-Semester warnings available in PAWS
October 24	Last day to register for six-week intensive web courses
October 27	Spring 2015 Registration Guidelines Booklet available
October 29	First day of intensive web courses
November 3-21	Spring 2015 Registration (without payment)
Nov. 3-Dec.12	Intersession 2015 Registration (with payment)
November 7	Last day to withdraw from undergraduate courses with “W”
November 25	Residence Halls close 7:00 pm
November 26-30	Thanksgiving Recess
November 30	Residence Halls open at noon
December 1	Classes resume
December 12	Last day to withdraw from courses with “WF”
December 12	Last day of classes
December 13	Common Exams
December 14	Reading Day
December 15-19	Final Exams
December 20	Commencement

Intersession 2015

November 3	Registration Begins (Payment is due at time of registration or enrollment in a payment plan)
December 12	Last day to register without late fees
December 12	Last day to withdraw with a refund (Spring financial aid may not be used for Intersession)
Dec. 13 – Jan. 5	Registration with late fees (\$60)
December 17	Course cancellations
January 2	Classes begin – no refund
January 5	Last day to add a course
January 5	Last day to drop course without “W” – no refund
January 14	Last day to drop a course with a “W” – no refund
January 19	M.L. King Holiday – no classes, offices closed
January 23	Last day of classes

Spring 2015

October 27	Spring 2015 Registration Guidelines Booklet available
November 3-21	Spring 2015 Registration Period
November 21	Last day to register without late fees
January 19	M.L. King Holiday – no classes, offices closed
January 22	Testing (new non-registered students only)
January 23	Advising and Registration (new non-registered students only)
January 26	Classes begin
January 26-30	Drop/Add Period and Late Registration (PAWS and academic departments)
January 30	Last day to add courses
February 13	Last day to file pass/fail option
March 9	Last day for any undergraduate grade change for Fall 2014 and Intersession 2015 (including removal of incomplete grades)
March 9	Last day for graduate students to withdraw from courses with a “W”
March 10	Mid-Semester warnings available in PAWS
March 13	Residence Halls close 7:00 pm
March 15-22	Spring Break – University closed
March 22	Residence Halls open at noon
March 23	Classes resume
March 23	Fall 2015 Registration Guidelines Booklet available
March 27	Last day to register for Spring 2015 Six-Week Intensive Courses
Mar 30-Apr 17	Fall 2015 Registration Period
March 31	First day of intensive web courses
April 10	Last day to withdraw from undergraduate courses with “W”
May 12	Last day to withdraw from courses with “WF”
May 12	Last day of classes
May 13	Reading Day
May 14-15	Final Exams
May 16	Common Finals
May 18-20	Final Exams
May 21	Commencement

Summer 2015

4 Week Session 1	May 26 – June 19
4 Week Session 2	June 22 – July 17
4 Week Session 3	July 20 – August 13
6 Week Session	May 26 – July 2
6 Week Session 2	July 6 – August 13
12 Week	May 26 – August 13

See the Summer Session Schedule Booklet for complete calendar.

FSU's Teacher Education Report Card

Contextual Information

Total number of students admitted into teacher preparation, all specializations	496
Number of students in supervised student teaching	162
Average number of clock hours required prior to student teaching	40
Average number of clock hours required for student teaching	700
Number of full-time equivalent faculty in supervised clinical experience during this academic year	16
Number of full-time equivalent adjunct faculty in supervised clinical experience during this academic year (IHE & PreK-12 staff)	19
Number of students in supervised clinical experience during this academic year	212

*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: 2012-2013

Number of Program Completers: 162¹

Type of Assessment ²	Number Taking Assessment ³	Number Passing Assessment ⁴	Institutional Pass Rate	Statewide Pass Rate
Summary Totals and Pass Rates⁵	157	151	96%	98%

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.

Residency Policy

VIII-2.70 POLICY ON STUDENT CLASSIFICATION FOR ADMISSION AND TUITION PURPOSES

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

D. A veteran who provides documentation that he/she was honorably discharged from the United States Armed Forces and currently resides, or is domiciled, in Maryland.

Expenses 2014-2015

Replaces page 15 of the 2013-2015 Undergraduate Catalog

This information applies to the academic year 2014-2015 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 \$2,900 per semester plus all other applicable fees at the University. Tuition for out-of-state students is \$8,546 per semester plus all other applicable fees at the University. Tuition for residents of the contiguous counties* is \$6,387 per semester plus all other applicable fees at the University.

Evening and part-time tuition is \$240 per credit hour for resident undergraduate students, \$365 for contiguous county undergraduates, \$480 per credit hour for non-resident undergraduate students, \$357 per credit hour for resident graduate students, and \$459 per credit hour for non-resident graduate students. Doctoral tuition per credit hour is \$491 for resident students and \$615 for non-resident students.

Summer tuition is \$240 per credit hour for resident undergraduate students, \$365 for contiguous county undergraduates, \$480 per credit hour for non-resident undergraduate students, \$357 per credit hour for resident graduate students and \$459 per credit hour for non-resident graduate students. Doctoral tuition per credit hour is \$491 for resident students and \$615 for non-resident 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

Undergraduate Tuition & Fees 2014-2015

TUITION - FULL TIME (12 cr. or more)	1st Semester	2nd Semester	Total
Maryland Residents	\$2,900	\$2,900	\$5,800
Out-of-State Residents	8,546	8,546	17,092
Contiguous County Residents	6,387	6,387	12,774
MANDATORY FEES			
Technology Fee	\$82	\$82	\$164
Activities Fee	158	158	316
Athletic Fee	411	411	822
Auxiliary Facilities Fee	270	270	540
Student Union Operating Fee	152	152	304
Transportation Fee	18	18	36
Total Fees	\$1091	\$1091	\$2,182
TOTAL TUITION AND FEES			
Maryland Residents	\$3,991	\$3,991	\$7,982
Out-of-State Residents	9,637	9,637	19,274
Contiguous County* Residents	7,478	7,478	14,956
ROOM CHARGES			
Frederick, Westminster	double \$1,984	\$1,984	\$3,968
All other halls	double 1,938	1,938	3,876
	small single 2,562	2,562	5,124
	large single 2,780	2,780	5,560
BOARD CHARGES			
Super 15 Meal Plan with \$300 bonus dollars	\$2,313	\$2,313	\$4,626
Gold Plan with \$200 bonus dollars	2,167	2,167	4,334
Silver Plan - 19 meals w/\$100 bonus dollars	2,015	2,015	4,030
14-meal with \$100 bonus dollars	1,934	1,934	3,868
12-meal with \$250 bonus dollars	2,008	2,008	4,016
10-meal with \$75 bonus dollars	1,688	1,688	3,376

TOTAL TUITION, FEES, ROOM AND BOARD**

Maryland Residents	\$8,096	\$8,096	\$16,192
Out-of-State Residents	13,742	13,742	27,484
Contiguous County* Residents	11,583	11,583	23,161

**based on \$3,876 room rate and \$4,334 board rate

All fees subject to change.

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

will be considered UMCP students for the remainder of the program. Students will then pay both UMCP tuition rates and FSU fees to the FSU University and Student Billing Office.

Room and Board

The cost for room and board for each University residence hall student varies from \$7,252 per year to \$10,186 per year. Room contracts are binding for one academic year (fall and spring semesters). All students living in the residence halls are required to purchase a meal ticket for the University dining hall. See the chart below for detailed room and board options and prices.

Mandatory Fees

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

Activities Fee: An activities fee of \$158 per semester for full-time students or \$25 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 \$411 per semester for full-time students and a \$43 per credit hour fee for part-time students is used to support the University's program in intercollegiate and intramural athletics.

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

Student Union Operating Fee: A Student Union operating fee of \$158 per semester for full-time students and \$18 per credit hour for part-time students is charged for operating expenses of the Lane Center.

Transportation Fee: A Transportation fee of \$18 per semester for full-time students and \$2 per credit hour for

part-time students is charged, allowing students to ride Allegany Transit Authority buses by showing a student ID.

Technology Fee: A Technology fee of \$82 per semester for full-time students and \$13 per credit hour for part-time students is assessed to fund technology initiatives for student enhancement.

Other Fees and Expenses

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

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

Payment Plans are available through a partnership with Tuition Pay. An annual (10-month) plan is available for \$80. A 5-month semester plan is \$80 per semester. A 3-pay plan costs \$65 per semester.

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

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

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

Reissue Check Fee: A stop payment fee of \$30 is charged to reissue a check.

Motor Vehicle Registration: A \$40 motor vehicle registration fee is charged for students registering a

Other fees & expenses

Tuition Pay Plans	\$65-\$80
Application Fee, one time only	\$30
Career Services Credential Fee	\$20
Directed Practice Fee	\$100
Duplicate Copy	\$3
Late Registration Fee	\$30
Late Payment Fee	\$30
Lost ID Card	\$20
Private Music Fee	\$150 per credit
Returned Check Fee	\$30
Reissue Check fee	\$30
Study Abroad Admins. Fee	\$150
Vehicle Registration	- day \$40 per year - evening only \$10 per year
In-House Deferment	\$150 per semester

Special Instruction Fees

Accounting (ACCT 305)	\$25
Art (ART 110)	\$10
Art (ART 100, 111, 301, 302, 360, 370, 380, 408, 415, 430, 460)	\$15
Art (ART 207, 209, 212, 216, 240, 412, 416)	\$25
Art (ART 236, 307, 407, 414)	\$30
Art (ART 221, 232)	\$35
Art (ART 440, 602, 640)	\$40
Art (ART 202, 235, 435, 635)	\$45
Art (ART 402, 421, 432, 621, 622, 632)	\$50
Art (ART 452)	\$60
Biology (BIOL 128, 150, 160, 161, 200, 211, 230, 302, 304, 305, 309, 310, 311, 312, 313, 314, 321, 322, 334, 340, 401, 404, 406, 410, 411, 412, 417, 421, 422, 423, 425, 426, 427, 430, 435, 436, 438, 439, 440, 445, 460, 484)	\$15
Biology (BIOL 109, 149)	\$20
Business Admin. (BMIS 320)	\$25
Chemistry (CHEM 100, 113, 201)	\$20
Chemistry (CHEM 202, 301, 302, 304, 305, 320, 411, 420, 421, 445, 446, 456, 457, 493, 499)	\$25
Computer Science (COSC 100, 110, 220, 330)	\$25
Geography (GEOG 103, 113, 207, 340, 413, 430, 433, 445, 470)	\$20
Interdisciplinary Studies (IDIS 150 Outdoor Leadership)	\$115
Mass Comm. (MCOM 101, 287, 387)	\$50
Mass Comm. (MCOM 212, 213, 250, 313, 465, 499 audio)	\$50
Mass Comm. (MCOM 311, 487, 488, 499 video projects)	\$50
Mathematics (MATH 109, 119)	\$20
Mathematics (DVMT 095, 100) Web	\$100
Music 315, 319, 321, 327, 329, 330, 331, 335, 336, 337, 339, 340	\$10
Music Applied 390, 493	\$150
Music Applied 490	\$300
Nursing (401, 402, 403, 404/504, 405, 406, 407/507, 491, 495, 496, 601, 602, 603, 605, 610, 611, 612, 613, 614, 615, 691, 692, 694, 695, 700)	\$6 per credit hour
Orientation (ORIE 101)	\$120
Psychology (PSYC 150)	\$10
Physical Science (PHSC 101, 203)	\$20
Physics (PHYS 215, 261)	\$20
Sociology (SOC 310/SOWK 310)	\$25
Student Teaching Internship	\$350
Summer Orientation Program	\$125

Voluntary Meal Plans

(non-residential students)	
Just-a-Nibble (45 meals/semester)	\$611/semester plus \$200 Bonus Dollars
Snack Size (60 meals/semester)	\$634/semester plus \$150 Bonus Dollars
Quick Bite (75 meals/semester)	\$915/semester plus \$350 Bonus Dollars
Full Meal Deal (100 meals/semester)	\$924/semester plus \$225 Bonus Dollars

EXPENSES 2014-2015

vehicle. Vehicle registration for summer school and evening classes is \$10.

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

In-House Deferment: Students with a balance due after 10 business days will be charged \$150, plus late fees for enrollment – two payments.

Special Course Work Fees

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

Private Music Fee: Music students desiring private study of organ, piano, other instruments, or voice are charged \$150 per credit hour.

Additional Course Fees: Course fees and studio fees range from \$10-\$300 for costs of the course.

Special Instruction Fees: Fees of \$10, \$20, \$25 and \$100 respectively for students enrolled in GEP science laboratory courses and courses utilizing the Academic Computing facility are collected to cover laboratory supplies, equipment, software. Fees are also charged to cover art supplies in certain studio courses, course materials or field trips.

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

PROGRAMS OF STUDY

Programs of Study

The following undergraduate programs have been discontinued:

- BTPS in Information Technology Management
- BTPS in Criminal Justice
- BTPS in Health Science Administration
- Engineering Management Concentration within the major in Engineering

The following undergraduate certificates have been discontinued:

- Computing Technology
- Computer Print Graphics
- Professional Writing
- Child and Family Counseling
- Leadership in Psychology
- Public Administration

College of Business

Major in Business Administration

The Concentration in **Small Business/Entrepreneurship** will no longer be offered at USMH starting fall 2014. The concentration will continue to be offered at the Frostburg campus.

College of Education

Early Childhood/Elementary Education

Major

Summary of Requirements for Major in Early Childhood/Elementary Education

Major

2. Specific Hours for Early Childhood/Elementary Education Majors: (27 hours)

Social Science (3 hours; GEP Group D)

GEOG 104 Human Geography or GEOG 110 World Regional Geography

5. Specialization (24 hours; 2 courses satisfy GEP)

- ART 110 Visual Imagery (3 hours satisfy GEP Group A)
- PSYC 150/151 General Psychology (3 hours satisfy GEP Group D)
- PSYC 210 Child Development or PSYC 208 Introduction to Lifespan Development
- EDUC 390 Field Experience in Early Childhood Education (3 hours required during Phase I. Proposal written during ECED 293.)
- All of the following (12 hours)
 - ECED 150 Early Childhood Foundations (taken Pre-Phase I)
 - ECED 293 Early Childhood Learning Environment, Materials and Methods (taken Pre-Phase I after ECED 150)
 - ECED 431 Early Childhood Education Curriculum Development, Implementation and Assessment (taken during Block II)
 - ECED 443 Adults in the Child's World (taken during Block I)

Elementary Education

Major

Summary of Requirements for Major in Elementary Education

Directed academic course requirements within and beyond the University GEP

Major

2. Specific Hours for Elementary Education Majors: (27 hours)

Social Science (3 hours; GEP Group D)

GEOG 104 Human Geography or GEOG 110 World Regional Geography

6. Professional Education Courses Required Prior to or Concurrent with Phase I: (4 hours)

EDUC 100 Career Analysis in Education (1)

EDUC 201 Students, Teachers, and Learning Environments (3)

Course required concurrent with Phase I for Early Childhood/Elementary candidates enrolled at University System of Maryland – Hagerstown:

EDUC 335 Teaching Frameworks (2) (which replaces EDUC 100 and EDUC 200)

7. Professional Education Sequence (53 hours)

PHASE II, Block 2 (13 hours)

EDUC 448 Educational Technology Laboratory III (1)

ELED 494 Teaching Internship I: P-8 (6)

REED 420 Assessment for Reading Instruction (3)

REED 425 Materials and Motivations for Reading (3)

PHASE III (15 hours)

EDUC 422 Leadership Seminar P-8 (3) (Capstone)

ELED 495 Teaching Internship II: P-8 (12) (Capstone)

8. Other Internship Requirements

Students wishing to have an internship placement in a middle school must take EDUC 445 Middle School Curriculum Methods (3 hours) during the semester in which they are enrolled in Phase II Block II.

9. Other Graduation/Program Exit Requirements

- Successful presentation of a portfolio that meets institutional, Maryland state and national standards.
- Completion of the Praxis II content knowledge and pedagogy tests required by the Maryland State Department of Education (before Phase III).
- Successful completion of required field experiences in early childhood (PreK-K), primary (1-3) and intermediate (4-6) grades.

Elementary/Middle School Dual Certification

Major

Summary of Requirements for Major in Elementary/Middle School Dual Certification

Major

2. Specific Hours for Elementary/Middle School Education Majors: (27 hours)

Social Science (3 hours; GEP Group D)

GEOG 104 Human Geography or GEOG 110 World Regional Geography

College of Liberal Arts and Sciences

Engineering

CONCENTRATIONS	ELECTRICAL	MATERIALS
Hours Required in Engineering:	41-44	50
Hours Required in Other Disciplines:	47	40
Total Hours Required:	88-91	90

- Discontinuance of the Engineering Management Concentration
- Change in Electrical Engineering Concentration
- Change in Materials Engineering Concentration

Change in Electrical Engineering Concentration requirements:

2. Area of Concentration (32-35 hours)

Majors must choose to concentrate in one of the following areas:

Electrical Engineering (32-35 hours)

EENE 204 Basic Circuit Theory

EENE 206 Fund. Digital and Electric Circuits Lab

EENE 244 Digital Logic Design

EENE 303 Analog and Digital Electronics

EENE 307 Electronic Circuits Lab

EENE 350 Computer Organization

EENE 380 Electromagnetic Theory

ENES 310 Mechatronic and Robotic Design

EENE 439 Topics in Signal Processing

EENE 475 Power Electronics

Two electives from any 300- or 400-level ENEE, ENES, or ENME course.

Materials Engineering (34 hours)

ENES 102 Statics

ENES 220 Mechanics of Materials

ENES 221 Dynamics

ENME 232 Thermodynamics

ENME 331 Fluid Mechanics

ENME 332 Transfer Processes

ENME 382 Engineering Materials and Manufacturing

ENME 405 Fundamentals of Materials Engineering

ENME 425 Microfabrication**

Two electives from any 300- or 400-level ENEE, ENES, or ENME course.

Mathematics

Major

Teaching Certification Option

	MAJOR	MINOR	TEACHING CERT. OPTION
Hours Required in Mathematics:	42	21	42
Hours Required in Other Departments:	0	0	42.5
Total Hours Required:	42	21	84.5

Summary of Requirements for Major in Mathematics

Major

1. Basic Courses (21 hours)

- MATH 236 Calculus I (Core Skill 3)
- MATH 237 Calculus II
- MATH 238 Calculus III
- MATH 315 Foundations of Mathematics
- MATH 350 Linear Algebra I
- MATH 491 Seminar in Mathematics (Capstone)

2. Electives (21 hours)

Select from courses at the 300 or 400 level, except MATH 340 Fundamental Concepts of Geometry or MATH 495 Internship in Mathematics. You must select at least one course from each of the following groups.

A. Geometry and Topology

- MATH 440 Modern College Geometry
- MATH 460 Introductory Topology

B. Analysis

- MATH 425 Introduction to Real Analysis
- MATH 426 Introduction to Complex Analysis

C. Algebra

- MATH 451 Modern Higher Algebra
- MATH 452 Linear Algebra II

D. Applied Mathematics

- MATH 380 Introduction to Probability and Statistics
- MATH 432 Differential Equations
- MATH 435 Numerical Analysis
- MATH 436 Mathematical Physics
- MATH 470 Mathematical Models and Applications
- MATH 480 Probability and Statistics

Summary of Requirements for Major in Mathematics - Teaching Certification Option

1. Basic Core Curriculum (21 hours)

- MATH 236 Calculus I (Core Skill 3)
- MATH 237 Calculus II
- MATH 238 Calculus III
- MATH 315 Foundations of Mathematics
- MATH 350 Linear Algebra I
- MATH 491 Seminar in Mathematics (Capstone)

2. Mathematics Teaching Certification Option Requirements (18 hours)

- MATH 380 Introduction to Probability and Statistics
- MATH 425 Real Analysis
Or MATH 426 Complex Analysis
- MATH 437 Combinatorics and Graph Theory
- MATH 440 Modern College Geometry
- MATH 461 History of Mathematics
- MATH 465 Theory of Numbers
- MATH 451 Modern Higher Algebra

Philosophy

Major

Summary of Requirements for Major in Philosophy

Major

3. Distribution within Department:

(18 hours)

Select 15 hours from among courses at the 300 or 400 level with the exception of PHIL 492 and 495 (the internship) which cannot be used to satisfy the requirements for the major AND select one 400-level Capstone Seminar or PHIL 499 with permission of department chair..

Psychology

Child and Family Psychology Emphasis

Requirements for Child and Family Psychology Emphasis

2. Required Coursework in Psychology:

D) **One** of the following 400 level learning experiences:

- PSYC 404 Psychology of the Exceptional Child
- PSYC 440 Survey of Family Psychology and Intervention Issues
- PSYC 485 Behavioral Approaches to Human Problems
- PSYC 490 Special Topics in Psychology involving children and/or adolescents
- PSYC 492/495 Internship in Psychology involving children and/or adolescents
- PSYC 498 Readings in Psychology involving children and/or adolescents
- PSYC 499 Psychology Projects involving research concerning children and/or adolescents

4. Recommended Course:

- PSYC 303 Psychology of Couples

New and Revised Course Descriptions

ART

Change in course prerequisites:

ART 202 Ceramics 3 cr
Introduction to ceramic processes, history, and aesthetics of ceramic form; an exploration of functional and dsculptural ceramics. Studio performance stressed. Two hr. lecture, 2 hr. lab. Every semester.

ART 221 Painting 3 cr
Introduction to painting — color, form, shape, and texture; problems in formal and expressive relationships. Studio performance stressed. Two hr. lecture, 2 hr. lab. Every semester.

ART 232 Printmaking 3 cr
Introduction to relief, intaglio, planographic, and serigraphic processes. Two hr. lecture, 2 hr. lab. Every semester.

ART 236 Digital Imaging 3 cr
Introduction to photography and image manipulation using digital processes. Students will study the basics of traditional still photography, but enhance the learning experience through digital production on the Macintosh computer. An introduction to the computer as a tool in fine arts: camera use, scanning, digital manipulation and output. Two hr. lecture, 2 hr. lab. Variable.

ART 240 Sculpture 3 cr
Introduction to classical and contemporary concepts of form and media of sculpting. Physical properties of structure and the nature of materials. Two hr. lecture, 2 hr. lab. Every semester.

ART 402 Advanced Ceramics 3 cr
Continued study of clays and glazes, potter's wheel and handbuilding techniques; critical analysis and research into historical and contemporary trends. At advanced levels, departmental majors will be involved in research and development of concepts culminating in a final senior exhibition or an internship. Repeatable no more than 4 times for credit. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites: ART 202; concurrent enrollment in ART 291 and second advanced course.*

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. Repeatable no more than 4 times for credit. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites: ART 207 and ART 307, or permission of instructor; concurrent enrollment in ART 291 and second advanced course.*

ART 414 Adv. 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. Repeatable no more than 4 times for credit. Two hr. lecture, 2 hr. lab. Every semester. *Prerequisites: ART 207, ART 307, or permission of instructor; concurrent enrollment in ART 291 and second advanced course.*

ART 421 Advanced Painting 3 cr
Continued study of painting and painting materials through individual problem-solving in objective and non-objective painting; critical analysis and research into historical and contemporary trends. At advanced levels, departmental majors will be involved in research and development of concepts culminating in a final senior exhibition or internship. Repeatable no more than 4 times for credit. Two hr. lecture, 2 hrs. lab. Every semester. *Prerequisites: ART 221; concurrent enrollment in ART 291 and second advanced course.*

ART 432 Advanced Printmaking 3 cr
Continued study of printmaking processes, refinement of media, and individual expression; critical analysis and research into historical and contemporary trends. At advanced levels, departmental majors will be involved in research and development of concepts culminating in a final senior exhibition or internship. Repeatable no more than 4 times for credit. Two hr. lecture, 2 hrs. lab. Every semester. *Prerequisites: ART 232; concurrent enrollment in ART 291 and second advanced course.*

ART 440 Advanced Sculpture 3 cr
Continued study of functional and non-functional sculpture, and individual expression; critical analysis and research into historical and contemporary trends. At advanced levels, departmental majors will be involved in research and development of concepts culminating in a final senior exhibition or internship. Repeatable no more than 4 times for credit. Two hrs. lecture, 2 hrs. lab. Every semester. *Prerequisites: ART 240; concurrent enrollment in ART 291 and second advanced course.*

Engineering

New courses:

ENEE 380 Electromagnetic Theory 3 cr.
Study of electromagnetic fields, Coulomb's law, Gauss's law, electrical potential, method of images, boundary value problems, multipole expansion, Biot-Savart law, Ampere's law, Lorentz force equation, Faraday's law and Maxwell's equations. Fall. *Prerequisites: PHYS263 and junior standing. Corequisite(s) MATH 432.*

ENEE 488 Independent Study in Electrical Engineering 1-4 crs.
Independent study topics on advanced electrical and computer engineering issues. Projects typically involve academic investigations of technical themes that are not addressed in other courses. Study plans tailored to the student's educational goals but are approved and supervised by faculty. Project must have substantial research activity. Variable. *Prerequisite: Senior standing, permission of instructor and the department chair.*

ENEE 499 Senior Project in Electrical and Computer Engineering 1-5 crs.
Independent research projects on advanced electrical and computer engineering topics. Projects selected by students and faculty and supervised by faculty and other qualified mentors (if applicable). May involve the acquisition of new skills or information. Focus is to conduct an independent investigation of a technical theme leading to a specified project outcome(s). The course must have defined deliverables as a result of the student research. Variable. *Prerequisite: Senior standing, permission of instructor and the department chair.*

ENES 491 Engineering Seminar 2-3 crs.
Individual reports and group discussions on current topics in Engineering and the role of various science fields in Engineering. Topics selected jointly by student and instructor. Preparation of proposal for a research project. Review of basic concepts in mechanics, electrodynamics, thermodynamics, and atomic physics. Variable. *Prerequisites: Majors with junior or senior standing. Repeatable once for credit.*

Elementary Education

Change in course description:

ELED 495: Teaching Internship I: P-8 12 crs.
Supervised practicum at the early childhood, elementary and middle school levels. Joint supervision by school system and university personnel. Daily, full day clinical experience. When taken during the fall semester, includes a multiple day beginning of school experience. Graded P/N/F. May only be repeated once, upon approval of the program coordinator. Every semester. *Prerequisite: Successful completion of Internship I and admission requirements for Phase III. Capstone.*

English

Course deleted:

ENGL 206 Modern American Drama

Change number of credits and/or description:

ENGL 494: Field Experience in Writing 1-3 crs.
Requires nine three work-hours per week per credit of practical writing experience in an approved, supervised, professional setting. Every semester. Repeatable for a maximum of 6 credits if experience is substantially different. Three credits required for Journalism minor. *Prerequisites: Junior or senior standing and permission of the faculty coordinator.*

ENGL 495: Internship in English 6-12 crs.

Geography

New course:

GEOG 435 Field Experiences in Geography 1-6 crs.
Examination and analysis of physical and/or human geography in the field. Variable. Repeatable for a maximum of 6 credits provided that locations are different. Field sites may vary from year to year. *Prerequisite: permission of instructor.*

Health

Change in course prerequisites and descriptions:

HEED 206 Introduction to Athletic Training 3 cr.
Provides the student interested in Athletic Training the first extensive exposure to the field. Focuses on the theoretical base of the field as well as introductory injury prevention and management concepts. Fall.

HEED 210 Athletic Taping & Bracing Techniques 1 cr.
The art and science of applying athletic tape and braces in the prevention and treatment of athletic injuries. Fall. AT majors only.

HEED 222 Emergency Medical Techniques in Athl. Training 4 cr.
An introduction to the daily management of the athletic training clinical environment. Fall. AT majors only.

HEED 223 Clinical Experiences in Athletic Training I 1 cr.
An introduction to the daily management of the athletic training clinical environment. Spring. AT majors only.

HEED 318 Orthopedic Assessment I: Lower Extremity 4 cr.
General and specific athletic injury assessment procedures. Emphasis is placed on the lower extremity on the spine, pelvis and lower extremity including gait and postural assessment. 3 hrs. lecture, 2 hours lab. AT majors only.

HEED 319 Orthopedic Assessment II: Upper Extremity 4 cr.
General and specific athletic injury assessment procedures. Emphasis is placed on the upper extremity on the head, abdomen, throat and thorax assessment. 3 hrs. lecture, 2 hours lab. AT majors only.

HEED 322 Clinical Experiences in Athletic Training II 1 cr.
The continued in-depth study of both the theoretical and practical clinical aspects of athletic training. Fall. AT majors only

HEED 323 Clinical Experiences in Athletic Training III 1 cr.
The continued in-depth study of both the theoretical and practical clinical aspects of athletic training. Spring. AT majors only

HEED 408 Therapeutic Modalities in Sports Medicine 4 cr.
The study of both the theoretical and practical usage of various therapeutic modalities. Designed for individuals who routinely treat sports related injuries. 3 hours lab. Spring. *Prerequisite: HEED 318.* AT Majors only

HEED 413 Rehabilitation Techniques in Sports Medicine 4 cr.
Various aspects of the rehabilitation process for the physically active or athletic population. Goals, techniques, evaluation methods and specific rehabilitation programs covered. Credits cannot be earned for both HEED 413 and PHEC 413. 3 hrs lecture 2hrs lab. Fall. *Prerequisite: HEED 319.* AT Majors only

HEED 422 Clinical Experiences in Athletic Training IV 1 cr.
Summary of CAATE competencies and Role Delineation Study required to prepare for BOC exam. Emphasis is placed on clinical proficiencies/decision making skills. Fall. *Prerequisites: HEED 322 and HEED 323.* AT Majors only.

HEED 423 Clinical Experiences in Athletic Training V 1 cr.
Summary of CAATE competencies and Role Delineation Study required to prepare for BOC exam. Emphasis is placed on clinical proficiencies/decision making skills. Spring. *Prerequisites: HEED 322 and HEED 323.* AT Majors only.

HEED 485 Capstone II 3 cr.
Finalization of the theoretical and clinical application of lower body injury assessment and therapeutic modalities used by athletic trainers, athletic nutrition, pharmacology and preparation for BOC exam. Spring. AT majors only.

Management

Change in prerequisite:

MGMT 450 3 cr.
Study of international and comparative management theories, concepts, and practices; managing in a global environment, cross-cultural management practices, managing human resources in international corporations, unique challenges in managing multinational organizations, and contemporary issues facing global managers. Spring. *Prerequisite: INTR 330 or MGMT 251.*

NEW AND REVISED COURSE DESCRIPTIONS

Math**Change in course number:**

**MATH 106 Applied Mathematics for Business to
MATH 118 Applied Mathematics for Business**

Deletion of courses

MATH 435 Numerical Analysis

MATH 481 Applied Regression Analysis

MATH 482 Applied Nonparametric Statistics

Change in course number and description:

MATH 415 to MATH 315 Foundations of Mathematics **3 cr.**

Theory of sets; mathematical logic; quantifiers; methods of proof in mathematics. Variable. *Prerequisite: A grade of C or better in MATH 237 or permission of the instructor.*

Change in course descriptions and prerequisites:

MATH 425 Introduction to Real Analysis **3 cr.**

Topology of real numbers; sequences, cluster points, continuity, theory of differentiation and integration; elements of measure theory; infinite series. Variable. *Prerequisite: MATH 238 and MATH 315.*

MATH 426 Introduction to Complex Analysis **3 cr.**

Analytic functions; Cauchy's Theorem; Taylor and Laurent series; meromorphic functions; residue theory; conformal mapping. Variable. *Prerequisite: MATH 238 and MATH 315.*

MATH 437 Combinatorics and Graph Theory **3cr.**

General enumeration techniques, elements of graph theory, matrix representations of graphs and applications of graph theory. Variable. *Prerequisite: MATH 237.*

MATH 440 Modern College Geometry **3 cr.**

An introductory synthetic study of geometry: finite, absolute, affine, Euclidean, hyperbolic, elliptic, and projective geometries. Variable. *Prerequisites: MATH 237 and MATH 315.*

MATH 451 Modern Higher Algebra **3 cr.**

Basic study of the structure of groups and rings; isomorphism theorems; special kinds of rings; additional topics. Variable. *Prerequisites: MATH 237 and MATH 315.*

MATH 452 Linear Algebra II **3 cr.**

Basic study of vector spaces and their relationships to matrix algebra: the algebra of linear transformations, linear functionals and dual spaces, inner product spaces and decomposition theorems. Variable. *Prerequisites: MATH 238 and MATH 350.*

MATH 460 Introductory Topology **3 cr.**

The topology of Euclidean space; homeomorphisms and quotient maps; connectedness; compactness; topological surfaces; simplicial complexes and surfaces; the Euler characteristic. Variable. *Prerequisites: MATH 238 and MATH 315.*

MATH 461 History of Mathematics **3 cr.**

Historical development of mathematics and its concepts. Contributions of individuals and societies to the development of mathematics. Variable. *Prerequisite: MATH 237.*

MATH 465 Theory of Numbers **3 cr.**

Divisibility; Diophantine equations; congruences; sums of squares; additional topics. Variable. See department secretary for up-to-date schedule. *Prerequisites: MATH 237 and MATH 315.*

MATH 480 Probability and Statistics **3 cr.**

A deeper study of probability and statistics than MATH 380. Continuous probability distributions and their statistical applications. Variable. See department secretary for up-to-date schedule. *Prerequisites: MATH 238, MATH 380, or permission of instructor.*

Physics**Change in course description:**

PHYS 436 Mathematical Physics **3 cr.**

Topics in mathematical methods: finite differences, Fourier series, partial differential equations, complex variables, and conformal mapping with physical applications. Spring. *Prerequisites: MATH 432 and PHYS 216 or PHYS 262, or permission of instructor.*

Philosophy**Change in course titles:**

PHIL 303 Aesthetics to PHIL 303 Philosophy of Art

PHIL 306 Philosophy of Science to PHIL 306 Science on Trial

**PHIL 318 Skepticism and the Search for Truth to PHIL 318
Skepticism & Knowledge**

Change in course number, title, and description:

PHIL 451: Existentialism to PHIL 319: Philosophy of Existentialism

Origins of existential thought in Kierkegaard and its subsequent development in Heidegger, Jaspers, Marcel, Sartre, Merleau-Ponty, and Ricoeur. Such concepts as existence, historicity, freedom, and consciousness. Variable. *Recommended: 3 cr. In philosophy.*

Psychology**Change in course description:**

PSYC 485 Behavioral Approaches to Human Problems

Extensive examination of behavior therapy principles and strategies/procedures. Spring. *Prerequisite: PSYC 150/151 with a "C" or better.*

NEW AND REVISED COURSE DESCRIPTIONS

Advanced Placement Tests (AP)

Title of Exam	FSU Course Equivalent(s)	Credit Hrs.
Biology	BIOL 149 General Biology I	4

Title of Exam	FSU Course Equivalent(s)
	<i>For score of 5:</i>
Economics: Macro	ECON 211
Economics: Micro	ECON 212
English Lit. & Composition	ENGL 111 and ENGL 250
Government and Politics: US	POSC 112
Human Geography	GEOG 114
Psychology	PSYC 151
Statistics	MATH 110

International Baccalaureate Exams (IB)

Title of Exam	FSU Course Equivalent
	<i>For score of 6-7</i>
Language 1A	ENGL 111
Philosophy	PHIL 111
History	HIST 111
Geography	GEOG 114
English Literature	ENGL 250
Economics	ECON 211
Computer Science	COSC 110
Visual Arts	ART 111
Psychology	PSYC 151

College Level Examination Program (CLEP)

Title of Exam	FSU Course Equivalent
	<i>For score of 70 or above</i>
College Composition	ENGL 111
Composition and Literature Analyzing and Interpreting Literature	ENGL 250
Composition and Literature College Composition Modular	ENGL 111
American Government	POSC 112
Principles of Macroeconomics	ECON 211
Principles of Microeconomics	ECON 212
Introductory Psychology	PSYC 151
Introductory Sociology	SOCI 111