

F R O S T B U R G S T A T E U N I V E R S I T Y

GRADUATE CATALOG

2010.2012



Graduate Programs 2010-2012

Master of Arts

Teaching
Elementary, 1-6**
Secondary, PreK-12*

Master of Business Administration*

Master of Education

Administration and Supervision*
Elementary
Secondary
K-12
Curriculum and Instruction*
Elementary Education
Secondary Education
Educational Technology
Interdisciplinary*
Reading*
School Counseling
Special Education*

Master of Science

Applied Computer Science
Applied Ecology and Conservation Biology
Counseling Psychology
Recreation and Parks Management (online)
Wildlife/Fisheries Biology

Certificates

Educational Technology*
Addictions Counseling Psychology
Child and Family Counseling Psychology

* Offered at both FSU and USM-Hagerstown

** Offered only at USM-Hagerstown

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For Visits and Further Information

You are welcome to visit the university. Whenever possible, make an appointment in advance with the person you wish to meet. Administrative offices are generally open from 8:00 a.m. to 4:30 p.m., Monday through Friday. To write, use the specific office name, Frostburg State University, 101 Braddock Road, Frostburg, Maryland 21532-2303. You may also inquire by e-mail to gradservices@frostburg.edu

Inquiries by telephone should be directed as follows:

Subject of inquiry	Office	Telephone
Academic regulations and general graduate information	Graduate Services Pullen Hall	301.687.7053 FAX 301.687.4597
Admission for graduate students	Graduate Services	301.687.7053
Assistantships	Graduate Services	301.687.7053
Books and supplies	Bookstore	301.687.4341
Center for International Education	Fuller House	301.687.4714
Financial aid	Financial Aid Pullen Hall	301.687.4301 FAX 301.687.4737
FSU at USM-Hagerstown	32 W. Washington St. Hagerstown, MD	240.527.2741 240.527.2708
Library materials	Library	301.687.4395
On-campus housing	Residence Life Office	301.687.4121
Registration, student records transcripts, scheduling	Registrar Pullen Hall	301.687.4346 FAX 301.687.4597
Student Services	Student & Educational Services	301.687.4311
Telephone numbers	Information	301.687.4000
Tuition, fees, refunds, bills	University & Student Billing	301.687.4321
Veteran's information	Veteran's Affairs Office	301.687.4409

Degree program info

Master of Arts

Teaching: Elementary
Teaching: Secondary

Coordinator

Program Coordinator 240.527.2736
Dr. Marcia Cushall 301.687.4308
Mr. Ron Ross 240.675.4990

MBA

Master of Education

Administration & Supervision
Curriculum & Instruction
Interdisciplinary
Reading
School Counseling
Special Education

Dr. William Childs 301.687.4216
Dr. Doris Santamaria-Makang 301.687.7018
Dr. Tom Palardy 301.687.3095
Dr. Roger Dow 301.687.4431
Dr. Karla Diehl 301.687.4422
Dr. Oma Gail Simmons 301.687.4432

Master of Science

Applied Computer Science
Applied Ecology/Conservation Biology
Counseling Psychology
Recreation and Parks Management
Wildlife/Fisheries Biology

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FROSTBURG
STATE UNIVERSITY

Graduate Catalog 2010-2012

FROSTBURG STATE UNIVERSITY

101 Braddock Road

Frostburg, Maryland 21532-2303

www.frostburg.edu

Published for the Division of Academic Affairs by the FSU Office of Publications

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



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 and course offerings may change during the period of your enrollment. Whenever possible, such changes will be published in official University publications such as the Undergraduate Catalog and Registration Guidelines, and on the University Web site, with prior notice of changes provided. However, if circumstances require, such changes may be made without notice.

NOTE: 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.

FSU is committed to making all of its programs, services and activities accessible to persons with disabilities. To request accommodation through the ADA Compliance Office, call 301.687.4102 or use a Voice Relay Operator at 1.800.735.2258.

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

Welcome to the Frostburg State University Graduate Program

Congratulations on your decision to take this next step in your education. Since you have made this choice, I'm sure you are already aware that as the workplace continues to adapt to a changing economy, a master's degree is now seen more and more as a necessity in situations where a bachelor's degree once was all that was required. And while economic opportunity drives many to pursue an advanced degree, your academic program should—and will—mean much more.

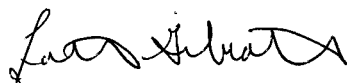
Whether your undergraduate education has just ended or is several years behind you, the program you are about to start will challenge you to deepen your understanding of your core discipline, act upon opportunities and further your personal and professional goals. Take advantage of this time to challenge yourself, to reach out to the excellent faculty who will be guiding you and to explore the possibilities that will open up with your master's degree from Frostburg State University.

Use this catalog as your road map to our academic programs as you progress toward your degree. We are constantly working to keep the special needs of graduate students in mind and to adapt as those needs evolve. We recognize that employment and family commitments must often be considered when you make your plan to continue your education. Class times, program design, courses offered both in Frostburg and Hagerstown and growing online opportunities are just some of the ways we are accommodating the demands of both part-time and full-time graduate students.

We are so glad you have chosen Frostburg State University to take you on this journey. Welcome to our academic community.



Dr. Jonathan Gibralter
President, Frostburg State University


Jonathan Gibralter, President



Academic Calendar 2010-2011

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

Fall Semester 2010

August 28	Residence halls open at noon—new students only
August 29	Residence halls open at 9 a.m.—continuing students
August 30	Classes begin
August 30-September 3	Late registration/drop/add
September 3	Last day to add classes
September 6	Labor Day—no classes, offices closed
October 8-10	Family Weekend
October 12	Last day for graduate students to withdraw with W
October 12	Last day for undergraduate student grade changes for spring '10 and summer '10 (including removal of incomplete grades)
October 13	Mid-semester warnings distributed to undergraduate students
October 26	Last day for undergraduate students to withdraw with W
October 27	Intensive courses begin
November 1-19	Spring 2011 registration, without payment
November 1-December 10	Interession registration, with payment
November 5-7	Leadership/Homecoming Weekend
November 23	Residence halls close at 7 p.m.
November 24-28	Thanksgiving recess
November 28	Residence halls open at noon
November 29	Classes resume
December 10	Last day for graduate students to remove incomplete grades
December 10	Last day to withdraw from courses with WF
December 10	Last day of classes
December 11-12	Reading days/common finals
December 11-January 4	Late Interession registration, with late fees
December 13-17	Final exams
December 15	Interession course cancellations
December 17	Residence halls close at 7 p.m.
December 18	Commencement

Spring Semester 2011

January 23	Residence halls open at 9 a.m.
January 24	Classes begin
January 24-28	Late registration/drop/add
January 28	Last day to add classes
March 4	Last day for undergraduate student grade changes for fall 2010 and Interession 2011 (including removal of incomplete grades)
March 4	Last day for graduate students to withdraw with W
March 7	Mid-semester warnings distributed to undergraduate students
March 18	Last day for undergraduate students to withdraw with W
March 18	Residence halls close at 7 p.m.
March 20-27	Spring Break
March 27	Residence halls open at noon
March 28	Classes resume
March 30	Intensive courses begin
April 4-22	Fall 2011 registration, without payment
April 4-May 6	Summer sessions registration, with payment
May 7-24	Late registration for summer sessions for continuing students, with late fees
May 10	Last day for graduate students to remove incomplete grades
May 10	Last day to withdraw from courses with WF
May 10	Last day of classes
May 11	Summer sessions course cancellations for sessions beginning May 23
May 11	Reading day
May 12-13	Final exams
May 14-15	Reading days/common finals
May 16-18	Final exams
May 18	Residence halls close at 7 p.m.
May 20	Honors convocation at 7:30 p.m.
May 21	Commencement
May 23	First day of Summer Session I

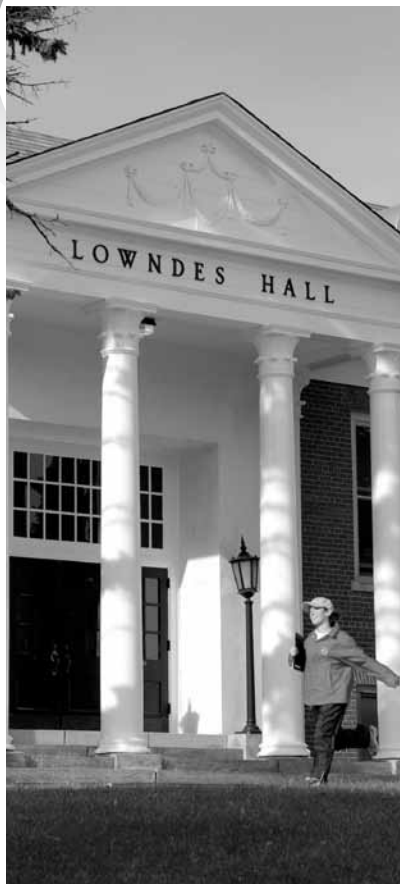
Interession 2011

January 2	Residence halls open at noon
January 3	Classes begin
January 3-4	Late registration/drop/add
January 4	Last day to add classes
January 11	Last day to withdraw with W
January 17	Martin Luther King Day—no classes, offices closed
January 21	Last day to withdraw with WF
January 21	Last day of classes

Summer Sessions 2011

First summer session begins May 23
See the Summer Session Schedule Booklet for complete calendar.

Calendar subject to change without notice.



The Mission of the University

Summary Mission Statement

Frostburg State University has provided paths to success for students for over 100 years. Founded in 1898 to prepare teachers, the institution today is a public, comprehensive, largely residential regional university offering a wide array of affordable programs at the undergraduate and graduate levels. The only four-year institution of the University System of Maryland west of the Baltimore-Washington corridor, the University serves as the premier educational and cultural center for Western Maryland. At the same time, it draws its student population from all counties in Maryland, as well as from numerous other states and foreign countries, thereby creating a campus experience that prepares students to live and work in a culturally diverse world.

The University is distinguished by a scenic campus encircled by mountains, its excellent academic programs, its nationally acclaimed community service programs and its vital role in regional economic development initiatives. As a result, it holds the distinction of being one of the University System institutions most closely woven into the fabric of the surrounding area.

Frostburg State University is, first and foremost, a teaching institution in which students are guided and nurtured by dedicated, highly qualified faculty and staff. Faculty engage in wide-ranging research and scholarly activity with the ultimate goal of enhancing student learning. The academic experience of undergraduates includes a rigorous general education program in the liberal arts and sciences, including development of core skills. Major areas of specialization are offered in education, business, science and technology, the creative and performing arts, and selected programs in the humanities and social sciences. The University provides numerous opportunities for students to engage in community service, leadership development activities, undergraduate research and internships. These activities serve as experiential laboratories in which students apply what they have learned in the classroom to real-world situations. Graduate programs provide specialized instruction for students involved in or preparing for professional careers.

Frostburg State University continues to define its core mission as providing pathways to success—in careers, in further education and in life—for all of its graduates.

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)
- BA/BS in Athletic Training: Commission on Accreditation of Allied Health Education Programs (CAAHEP) - on probation until submission of assessment system
- BA/BS programs in Electrical and Mechanical Engineering, in collaboration with the University of Maryland College Park: Accreditation Board for Engineering and Technology (ABET)
- BA/BS in Recreation and Parks Management: National Recreation and Park Association/American Association for Leisure and Recreation (NRPA/AALR)
- BA/BS in Social Work: Council on Social Work Education (CSWE)
- Teacher Education Programs: National Council for the Accreditation of Teacher Education (NCATE); also approved by the Maryland State Department of Education (MSDE) as consistent with the Maryland Redesign of Teacher Education

Other Specialized Accreditors:

- MS 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)

Getting to FSU

From Baltimore and east:

take I-70 west to I-68 west at Hancock, MD. Continue to the second exit for Frostburg, Exit 33 (Midlothian/ Braddock Road). Bear right and proceed approximately one mile to the main entrance to the FSU campus.

From Morgantown, WV, and west:

take I-68 east to Exit 33 (Midlothian / Braddock Road). Turn left onto Braddock Road and proceed approximately one mile to the main entrance to the campus.

To the USM at Hagerstown:

take I-70 west from Baltimore and exit onto I-81 north. Take the Downtown Hagerstown exit and follow Route 40 east. Route 40 through Hagerstown is also named Washington Street. The University System of Maryland at Hagerstown is located at 32 W. Washington St.

The Campus and Its Surroundings

Frostburg State University is located in the Appalachian highlands (elevation 2,000 feet) of western Maryland. The main campus covers 260 acres within the town limits of Frostburg (population 7,500). The University also offers courses at the University System of Maryland at Hagerstown, and undergraduate programs at the Anne Arundel Community College Regional Higher Education Center at Arundel Mills, and on the Catonsville Campus of the Community College of Baltimore County.

The local region is rich in both history and outdoor activities. Students can visit nearby recreational areas—Rocky Gap, New Germany and Deep Creek Lake State Parks—which offer camping, boating, swimming, hiking and skiing.



Facilities

The University buildings and grounds, set on 260 acres, make learning, living and working on our campus a special pleasure. Nature easily enters into the daily lives of students: buildings are set around grassy quads; varieties of plants and the surrounding woods change with the seasons.

The University is also the Coordinating Institution for the University System of Maryland at Hagerstown.

The Main Campus

Our classroom buildings include Compton Science Center, Dunkle, Fine Arts, Framptom, Gunter, Lowndes, Old Main, Pullen, Tawes and the Guild Human Resources Center. Students also attend classes in the Performing Arts Center and the Cordts Physical Education Center.

In addition to specialized departmental labs in all departments, science facilities include a planetarium, greenhouse, live animal rooms, centrifuge, herbarium, arboretum, biotechnology center and electron microscope. Recently, science facilities have greatly expanded and improved through the renovation of Gunter Hall, and the addition of the Compton Science Center. The state-of-the-art Appalachian Laboratory of the USM Center for Environmental Studies also provides research facilities for FSU students and faculty, as will the new research park.

Forty-eight percent of our students live on campus in 11 residence halls (Allen, Annapolis, Cambridge, Cumberland, Diehl, Frederick, Frost, Gray, Simpson, Sowers and Westminster), and Edgewood Commons, a privately owned apartment-style community.

Student meals are served in the Chesapeake Dining Hall, the Appalachian Station in the Lane University Center, and at Sub Zero in Sowers Hall.



Executive offices are located in the Hitchins Administration Building.

Pullen and Sand Spring Halls house most student services offices. In Pullen, you will find Admissions and Financial Aid, the Registrar, University and Student Billing, Office of Graduate Services, Programs for Academic Support and Studies (P.A.S.S.), Disability Support Services and Student Support Services. Sand Spring Hall is the temporary home to Counseling and Psychological Services, Career Services, the Career Resource Center, Veterans' Affairs, Upward Bound and the Regional Math/Science Center.

The University Children's Center has its own building next door.

Specialized Facilities

The Library

The Lewis J. Ort Library provides a wealth of research and reference materials for student and community use.

- Over one-half million print volumes in the collection, with over 4,000 on-site reference titles
- Web access to library holdings and to request circulating materials from the other University System of Maryland and Affiliated Institutions' (USMAI) libraries, a consortium of 30 academic libraries
- On-site reference assistance and e-mail reference at www.frostburg.edu/dept/library/userserv/reform.htm
- Media center of non-print materials and teacher materials collection
- U.S. government documents and maps, including electronic repository and Maryland government documents
- Periodical collection with over 456 print subscriptions and 22,000 Web access titles (number of titles listed on recent ALA Director entry)
- Special collections with emphasis on Western Maryland
- Extensive archival research collections on Western Maryland's two U.S. Senators (J. Glenn Beall and J. Glenn Beall, Jr.), the Communist Party USA and railroad photography
- Online interlibrary loan services to request research materials from other libraries that are not available at FSU
- Individual and group instruction in information literacy/fluency for use of the library's print/electronic resources with effective research strategies
- Public Internet work stations, most with Microsoft Office Suite, a 24-station electronic classroom, a public scanner and wireless Internet access
- Individual study rooms and small group computer rooms available for student use

Visit the Lewis J. Ort Library Web site at www.frostburg.edu/dept/library.

Driving Times to Frostburg

Baltimore	2 1/2 hrs.
Frederick	1 1/2 hrs.
Hagerstown	1 hr.
Harrisburg	2 hrs.
Johnstown	1 hr.
Morgantown	1 hr.
New York	6 1/2 hrs.
Norfolk	6 1/2 hrs.
Philadelphia	4 1/2 hrs.
Pittsburgh	2 1/2 hrs.
Richmond	4 hrs.
Salisbury (Md.)	5 1/2 hrs.
Somerset (Pa.)	3/4 hr.
Washington, D.C.	2 1/2 hrs.



FSU's new Compton Science Center houses the departments of biology, chemistry, physics and engineering.



Performing Arts Center

Performing Arts Center

Students studying theatre and dance, music and communication studies can flourish in the Performing Arts Center. The center contains three state-of-the-art performing spaces: the 338-seat Drama Theater, the 175-seat F. Perry Smith Studio Theater and the 458-seat Pealer Recital Hall. It is complete with scenic and costume shops, a box office, practice rooms, faculty and staff offices, dressing rooms, two separate dedicated computer labs and other production facilities. Campus and community audiences are welcome at a wealth of concerts and performances. For more information, contact the director of the Performing Arts Center at 301.687.3037.

Harold J. Cordts Physical Education Center

Students with valid University identification can use the extensive indoor and outdoor facilities of the Harold J. Cordts Physical Education Center:

- Three gymnasiums for basketball and other sports
- Swimming pool with 12-foot diving well
- Weight rooms with Matrix and Life Fitness cardio-vascular equipment, Hammer Strength free weights and Badger Magnum machines
- Racquetball and squash courts
- Outdoor tennis courts and all-weather track

For information on availability, contact the director at 301.687.4462.

Lane University Center

This student union was built and operates with student fees. It contains student organization offices, the FSU Bookstore, meeting and game rooms, The Appalachian Station restaurant, The Loft and a Java City Coffee bar. Lane University Center programs and services are described in the Campus Life chapter.

Academic Computing

Students have access to a rich computing environment that includes specialized department labs housed in various campus buildings as well as the main University Computer Labs located in Pullen Hall. The University Computer Labs offers:

- Apple and Windows workstations connected to the campus network and the Internet
- Scanning and printing facilities
- Standard software including word processing, spreadsheets, databases, Internet browsers, e-mail, programming languages, graphics production and library access
- Access to statistics packages, programming languages and database programs through academic servers

Additionally, Academic Computing offers:

- Support for various labs located on campus
- Operational support for the 24 hour/7 days a week lab in Ort Library 210 (access via student ID only)
- Training for computer lab assistants in other departments
- Support for any technical problem (Blackboard, PAWS, e-mail, Network, etc.)
- Administration of student and organization Web pages

Academic Computing may be reached at 301.687.7090. Visit our computing Web site at www.frostburg.edu/computing.

Distance Education

The principal mission of distance education at Frostburg is to enhance student access to the University's academic programs. The University is committed to providing students the support and resources needed to succeed as participants in distance education.

Frostburg State University's online courses, taught by faculty certified to teach online, are open to all eligible students who are prepared to learn in an online environment. Online courses at FSU allow students to pursue their degree requirements outside the traditional classroom setting, which also provides an opportunity to acquire the technical skills and learning strategies important to the pursuit of students' academic and career goals. Taking online courses can also accelerate their time to degree. Most of the course materials (other than textbooks) are available electronically with use of the Web as the primary means of communication. Some courses may require limited on-site contact



Edgewood Commons, FSU's apartment-style residence hall

between students and the instructor (e.g., an orientation session or proctored testing) at various times throughout the academic term.

Interactive video instruction at FSU is conducted through the University System of Maryland's Interactive Video Network (IVN). This network provides an opportunity for interaction with other institutions within the state of Maryland and beyond.

For questions about distance education at Frostburg State University, contact the Center for Instructional Technologies at 301.687.4353 or www.frostburg.edu/admin/cit.

University Children's Center

The University operates a licensed Pre-School/Extended Child Care Program for the children of students, employees and community residents from Monday through Friday, 7:45 a.m. to 5:00 p.m. Developmentally appropriate experiences are provided for 3-, 4- and 5-year-olds in art, math, science, cooking, music and movement, dramatic play, large muscle and fine motor activities. The Center is located on University Drive (across from Bobcat Stadium). For more information, call 301.687.4027.

Women's Studies Resource Center

The Women's Studies Resource Center provides a place for students to find resource materials on gender issues and to get information about the Women's Studies Program. The Center is located in Room 510 of the Ort Library. Hours vary, so contact a Women's Studies coordinator for more information: 301.687.4130 or 301.687.4047.



The University System of Maryland at Hagerstown

The University System of Maryland at Hagerstown

The University System of Maryland at Hagerstown (USMH) offers a wealth of educational opportunities to the citizens of Washington and Frederick counties in Maryland and the surrounding region. Frostburg State University is the managing institution for programs offered by a number of USM institutions. The USMH Center is located in a renovated/new construction facility in downtown Hagerstown. Classes are offered from 8:30 a.m. through 11 p.m. Monday through Thursday, 8:30 a.m. until 5 p.m. Fridays, and 9:00 a.m. to 2:00 p.m. on Saturdays. Most classes are offered in the late afternoon or evening, though classes utilizing the Interactive Video Network, nursing and Masters of Arts in Teaching classes are offered throughout the day. On-line courses are also available.

Undergraduate programs build on programs available at area community colleges, offering junior/senior-level courses leading to bachelor's degrees. Frostburg State University offers bachelor's degrees in business administration, early childhood education, liberal studies, sociology and soon psychology. FSU graduate programs include the Master of Business Administration, the Master of Arts in Teaching (Elementary and Secondary/PreK-12), and the Master of Education in several specialty areas.

In addition, other USM Institutions offer undergraduate programs in accounting, criminal justice, information systems management, investigative forensics, nursing, social science, and social work. Additional graduate offerings include master's degrees in several engineering specialties, nursing, and social work. Graduate certificates complement the degree programs. Beginning in 2010, the University of Maryland, College Park, in collaboration with FSU, will offer the Ed.D. in Educational Policy and Leadership for personnel from Allegany, Garrett and Washington counties' school districts.

For further information, contact the USMH Center at 240.527.2060, or the FSU office at USMH at 240.527.2708, or, FSU education programs at USMH at 240.527.2741.

Other Instructional Sites

The BA/BS in recreation and parks management, including the therapeutic recreation concentration, is offered at the Catonsville campus of the Community College of Baltimore County. The electrical engineering concentration in the BS in engineering may be completed at the Anne Arundel Community College Regional Higher Education Center at Arundel Mills. The MS in recreation and parks management will be offered online only, and the MBA program will have an online option beginning fall 2010 (pending approval of the Middle States Commission on Higher Education).

Diversity and Equal Opportunity

Frostburg State University affirms its commitment to a campus environment that values human diversity and respects individuals who represent that diversity. Fostering diversity and respect for difference is a fundamental goal of higher education, ranking among the highest priorities of this institution.

In this spirit, Frostburg State University is committed to a policy of equal opportunity and to the elimination of discrimination in both education and employment on the basis of race, color, national origin, ethnic background, gender, sexual orientation, age, creed, political or religious opinion or affiliation, disability, veteran's status or marital status, in conformity with all pertinent Federal and State laws on non-discrimination and equal opportunity.

The following policies guide the University in meeting its aims of diversity and equal opportunity. Copies of these policies are available in the Office of Affirmative Action/Equal Opportunity (301.687.4101).

- Affirmative Action/Equal Employment Opportunity (PN 1.002)
- Sexual Harassment Policy (PN 1.004 Revised)
- Policy on Diversity (PN 1.006)
- Policy of Non-Discrimination/Equal Opportunity (PN 1.008)
- Policy on Compliance with Disability Discrimination Laws (PN 3.073)

Americans With Disabilities Act

Frostburg State University does not discriminate on the basis of disability in admissions or in access to any of its programs or activities.

It is committed to full compliance with the Americans with Disabilities Act (ADA). The ADA requires that all University programs, services and activities be accessible to qualified individuals with disabilities. If a program or service is inaccessible to disabled persons, the University maintains responsibility for providing reasonable accommodations to ensure accessibility. This includes, but is not limited to, access to classes, lectures and all campus-sponsored events, on-campus housing and all facilities used by students and visitors. To request accommodation through the ADA Compliance Office, call 301.687.4102 or use a Voice Relay Operator at 1.800.735.2258.



FSU's Teacher Education Report Card

Contextual Information

Total number of students admitted into teacher preparation, all specializations, AY 2008-09	774
Number of students in supervised student teaching	242
Number of faculty members who supervised student teachers:	
Full-time faculty in professional education	18
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	33
Student teacher/faculty ratio	7.3
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: 2008-09

Number of Program Completers: 162¹

Type of Assessment ²	Number Taking Assessment ³	Number Passing Assessment ⁴	Institutional Pass Rate	Statewide Pass Rate
Aggregate - Basic Skills	159	159	100%	99%
Aggregate - Professional Knowledge	142	138	97%	99%
Aggregate - Academic Content Areas**	162	158	98%	99%
Summary Totals and Pass Rates⁵	162	157	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.



University History

1898	The Maryland General Assembly authorized State Normal School No. 2 and a \$20,000 appropriation for a building. The governor selected Frostburg as a site because the residents offered the best suitable location without cost to the State.
1898	Townpeople raised the money to buy Beall's Park—a 2-acre site—for the State Normal School.
1900	Old Main—the first campus building—was completed.
1902	Fifty-seven students attended the first classes of the State Normal School at Frostburg. We offered a 2-year program of elementary school teacher training.
1904	Our first commencement. Students received a diploma and a life-time teaching certificate.
1913	The Model School began operating in its new building. This was our first campus training school that allowed student teachers to work directly with children in the classroom.
1919	We opened our first residence hall.
1930	A six-room training school for student teachers replaced the 1913 Model School.
1931	Our teacher training program expanded from 2 to 3 years, and then from 3 to 4 years in 1934.
1935	<ul style="list-style-type: none"> The institution's name changed to State Teachers College at Frostburg. The first four-year degree students graduated with Bachelor of Science in Elementary Education.
1946	The college first offered a liberal arts junior college program. This degree was discontinued in 1960 when 4-year programs replaced it.
1947	We completed our first science building. It was followed by the Garrett Science Building in 1952, the Tawes Science Hall and Planetarium in 1968 and the Compton Science Center in 2003.
1949-50	50th Anniversary Year
1950-51	The State Legislature funded a 40-acre expansion to our campus and five new buildings.
1959	The new teacher-training laboratory school was completed and named after State Superintendent of Schools Thomas G. Pullen. It continued operating as an elementary school until 1976.
1960	The Board of Trustees granted Frostburg State Teachers College the right to confer the Bachelor of Arts degree and the Master of Education.
1961	Our first black student (Leon Brumback) graduated.
1963	In July, we became Frostburg State College.
1964-79	We experienced significant growth during these 15 years. Six residence halls were completed as well as 11 campus buildings, including the Chesapeake Dining Hall, Framptom Hall, Fine Arts, Dunkle Hall, Lane Center, the Lewis J. Ort Library, the Physical Education Center, Hitchins Administration Building and the Stangle Service Building.
1971	The Master of Science in Management Degree was first offered. This degree was replaced by the MBA in 1989.
1975	The Appalachian Environmental Laboratory—part of the Center for Environmental Science of the University System of Maryland—opened on our campus.
1986	The Nelson P. Guild Center was completed to house the Social Sciences and Business programs.
1987	In July, our institution was granted University status.
1988	<ul style="list-style-type: none"> We joined the University System of Maryland, which is comprised of 11 of the State's four-year institutions and two research institutions. The Center in Hagerstown opened.
1989	The first FSU Medallion was presented to Lewis J. Ort. Our second recipient was Governor William Donald Schaefer in 1990 and Gerald Arpino in 1994.
1991	Dr. Catherine Gira became the second woman president of our institution. Lillian C. Compton served as president from 1945-55.
1994	The Performing Arts Center was completed. On April 24, the Joffrey Ballet performed in the new Center in celebration of its debut on our campus 37 years ago.
1995	Bell Atlantic distance education classrooms were installed at Frostburg and the Hagerstown Center.
1998	The University celebrated its Centennial with a year-long series of events.
1999	The Center for Environmental Science's new Appalachian Laboratory building opened.
2000	FSU was the first-ever recipient of the Corporation for National Service's Higher Education Award for Leadership in National Service.
2002	Gunter Hall was renovated and reopened.
2003	Compton Science Center and Edgewood Commons apartment complex opened.
2005	FSU began offering programs at the new University System of Maryland - Hagerstown.
2006	Dr. Jonathan Gibraltar became the 14th president of Frostburg State University.
2008	The first building, the FSU Research Center, opened in ABC@FSU.
2008	President Gibraltar was given the first-ever Presidential Leadership Award for promoting a campus climate that de-emphasizes alcohol.

Graduate Study at FSU

Graduate study allows you to advance your education under the direction of discipline specialists. You should carefully select a field of study that provides you with the opportunity to acquire the understandings, skills, and values needed for advancement in your chosen field and for continuing self-education.

Graduate programs are designed to extend your academic, professional and personal competence; to familiarize you with the research in your field of study; and to enable you to apply relevant research to contemporary issues in your specialty.

The master's degree confers upon its recipients recognition as leaders within the fields of study. Therefore, as a graduate student, you are expected to reflect not only superior academic achievement, but also the commitment, values and leadership skills necessary for you to assume a leadership role in your specialty area.

Graduate Mission Statement

Frostburg State University Graduate Studies encourages lifelong learning, development of intellectual curiosity, the capacity for scholarship and applied research and mastery of subject matter in advanced professional programs. The University is committed to excellence in preparing students to engage in the challenges of a technologically complex and pluralistic society. The programs enhance and enrich the academic environment of the University while seeking to meet the needs of the region and the larger global community.

Graduate Program Governance/Administration

The Graduate Council, a committee of the Faculty Senate, functions as the major policies and procedures body for graduate programs.

The full range of the council's responsibilities can be found in its charter.

School deans are responsible for overseeing the administration of the graduate programs under their jurisdiction. Each graduate program coordinator is responsible for administering his or her graduate program.

Students' Rights and Responsibilities and Standards of Personal and Group Conduct

As a student, you enjoy the basic rights of any citizen of our society as you pursue your graduate education, but there is often confusion between the rights of students as citizens and the assumed rights of students as students. Established at the University are clear behavioral guidelines along with the consequences for acts outside these guidelines.

A publication, *The Pathfinder*, available on FSU's Web site, includes enumeration of students' rights and responsibilities, identifies the University's standards of personal and group conduct and explains the University Judicial System.

Admission Requirements

Admission to graduate studies is based on the academic qualifications of the applicant and is granted without regard to race, color, religion, sex or disability.

Regardless of the purpose for which you plan to take graduate courses, you must file an application for admission to graduate studies. A formal letter indicating your admission status is issued when your application is completed. File your application with the Office of Graduate Services early during the semester immediately preceding actual enrollment in graduate classes.

You may submit the application for admission with the registration course request form for that particular semester or summer session. It should be understood, however, that if you seek a degree and have not been fully admitted, or have not developed an approved study plan (in programs where study plans are required), you have no guarantee that the courses taken prior to admission will be accepted into the Master's program. You must complete the admission process in its entirety prior to completing the first semester of courses or you will not be permitted to register for additional courses.

Your admission is valid for the entire time of graduate study provided you register for at least one course during an 18-month period. Should 18 months elapse since you registered for a course, you must submit a request to the Office of Graduate Services to be readmitted before you may register again.

Applicants for graduate study are assigned to one of the following categories: degree program admission, provisional status or non-degree status.

Degree Program Admission

You may be granted degree program admission if you have a strong undergraduate academic record and appear to have potential for successful completion of a graduate program. Degree program admission is based on the following criteria:



GRADUATE STUDY AT FSU

1. Each graduate program has specific admission requirements, which are detailed in the sections of this catalog devoted to these programs.
2. Completion of an application for admission to graduate study as a degree program student.
3. Submission of official transcripts of all previous graduate work and a transcript certifying the completion of a baccalaureate degree. This official transcript must be sent directly to the Office of Graduate Services from the degree-granting institution.
4. If you have previously completed a graduate degree, but have not taken the GRE (Graduate Record Examination) or MAT (Miller Analogies Test), you may be eligible to have the GRE or MAT requirement waived. The GRE or MAT may be waived if you have successfully completed a graduate degree with a minimum 3.5 cumulative grade point average. The graduate program coordinator of the program to which you are applying will determine the relevance of previous graduate degrees in making the decision to waive the GRE or MAT requirements.



If you are assigned provisional status, you must construct a special study plan of 9 to 15 credits approved by your advisor. After completing the 9-15 credits, you must apply to the graduate program coordinator for a change of status. You must achieve a minimum cumulative grade point average of 3.0 to apply for a change of status to degree program admission.

1. Completion of the baccalaureate degree at a regionally accredited institution of higher education.
2. Submission of an official transcript certifying the completion of a baccalaureate degree. This official transcript must be sent directly to the Office of Graduate Services from the degree-granting institution.

Provisional Status

Provisional status allows you to enroll in graduate courses to qualify for admission to a degree program.

You may be granted provisional status if denied unconditional admission due to (1) less than the minimum grade point average required for admission to the program to which you are applying, (2) baccalaureate degree not from a regionally accredited college or university or (3) undergraduate course deficiencies.

Non-Degree Status

You may be assigned non-degree status if you wish to apply for graduate study but do not wish to work toward a graduate degree. This category usually includes students who wish to take courses for professional development, for transfer to another institution or for maintaining certification in the field of education. Non-degree status is based on the following requirements:

Graduate Certificate Programs

Graduate students currently enrolled in a program of study (degree-seeking) and members of the community who hold a baccalaureate degree, but who do not wish to complete a master's degree (non-degree seeking), may earn a certificate from Frostburg State University in several specialized areas. Certificate programs are designed to provide specialized skills and knowledge useful in employment and allow academic enrichment through lifelong learning. Post-baccalaureate certificates include a minimum of 12 credit hours, the majority of which are at the master's level.

If you are a degree-seeking student currently enrolled, you may declare your intent to complete a certificate program on your Study Plan form. You must meet all prerequisites stated by the offering department for the particular certificate.

If you do not intend to complete a graduate degree program, and wish to enroll for the purpose of completing a certificate program, apply for admission as a non-degree seeking student and indicate the certificate program you wish to complete. This simply requires the completion of the Application for Graduate Admission form, payment of a one-time application fee and official transcripts from





the institution granting your baccalaureate degree. Particular certificate programs may have additional admission requirements. Credits earned toward a certificate may be applied to a degree at a later date, should you choose to apply as a degree-seeking student. Credits are also transferable.

To earn a certificate:

1. A maximum of 9 credit hours, with a grade of B or better, may be applied for transfer from another institution if the courses are appropriate to the certificate. However, at least two-thirds of the credit hours required in the certificate program must be taken at Frostburg State University. Courses offered as *Credit by Exam* count in the two-thirds total for the certificate program.
2. You must achieve a minimum of a 3.0 grade point average in courses required in the certificate and completed at Frostburg State University.

Successful completion of a certificate program will be noted on your official Frostburg State University transcript. You will also receive a paper certificate to document your accomplishment.

The following certificate programs are currently offered. See the descriptions, and any special admission, prerequisite and academic standards in the individual descriptions in the Courses of Study section of this catalog.

- Addictions Counseling (Psychology)
- Child & Family Counseling (Psychology)
- Educational Technology (Education)

Enrollment of Undergraduates in Graduate Courses

Frostburg State University undergraduates may take no more than 7 credits in graduate courses for graduate credit prior to completion of the bachelor's degree requirements. To enroll in a graduate course, you must be a senior with at least a 2.5 grade point average and must have the recommendation of your advisor.

If you are a full-time undergraduate student taking a graduate course during the academic year, you will not be required to pay tuition for the graduate course since you will pay tuition and fees as a full-time undergraduate.

Credit earned in a graduate course may be considered only as graduate credit and may not be used as undergraduate credit for the baccalaureate degree. The credit, although technically graduate credit, may not be used for a graduate degree at Frostburg State University unless it later becomes part of your graduate requirements.

Exceptions to these policies are made only for students who are admitted to a combined baccalaureate-master's program at Frostburg State University. See the degree program listings for descriptions of current programs and selection criteria.

An exception will be granted to undergraduate students accepted into the undergraduate Generic Special Education Secondary/Adult Certificate who are required to undertake 9 credits hours (SPED 601, SPED 602 and SPED 605).

Senior Citizen Golden Identification Card

Senior citizens may qualify for admission and a Golden Identification Card. Participants in the Golden Identification Card program may register for up to three courses each semester for credit—on a space-available basis—without paying tuition. They may enroll only at late registration. Although the late registration fee is waived for senior citizens, they must pay all other fees. To qualify for the Golden Identification Card, the prospective student must meet the following criteria:

- Be a resident of Maryland
- Be a U.S. citizen or produce a Resident Alien card (formerly an Alien Registration card)
- Be 60 years of age by the beginning of the term for which you are applying
- Not be employed more than 25 hours a week

Individuals who qualify for the Golden Identification Card may obtain applications from the Office of Admissions. For further information about these qualifications, call 301.687.4201.

International Student Admission

If you are a foreign national and have been awarded the baccalaureate degree (or its equivalent) from any institution other than a U.S. regionally accredited institution of higher education, you must do the following before you can be considered for admission to graduate study:

1. Submit a completed Application for Graduate Study to the Office of Graduate Services, Frostburg State University, Frostburg, MD 21532-2303, U.S.A.
2. If your native language is not English, you are required to demonstrate English language proficiency. Students can validate their proficiency by earning an acceptable score on the TOEFL or IELTS examinations. The University requires a minimum TOEFL score of 79 or a minimum IELTS score of 6. Comparable scores on the TOEFL paper or computer-based test will be accepted as well. In addition, students can also present English language certification through ELS. All international students will be required to demonstrate English language proficiency with the possible exceptions:
 - (a) Non-native speakers of English who have graduated from secondary institutions or who transfer from post-secondary institutions in English-speaking countries, provided they have spent a minimum of 2 years in successful full-time study and the language of instruction was English.
 - (b) Students from countries where English is the first language or the language of instruction in the educational system.
3. Submit official copies of transcripts showing all university and college work. These transcripts must show the subjects taken, grades for the subject and degrees awarded. Official copies must bear the seal of the issuing institution and the actual signature of the college or university registrar.
4. Have a transcript evaluation for institutions other than American institutions translated and evaluated by an approved evaluation service. The professional evaluation should be a course-by-course evaluation that will determine your academic level within the American system of education. The final report should be forwarded to the Office of Graduate Services. No action will be taken on your application for admission until the evaluation has been received.
5. Complete the International Student Certification of Financial Support form and submit it to the Office of Graduate Services. This form attests that your sponsor is aware of the educational and living expenses and is prepared to provide the necessary funds. Students must pay all educational costs for the semester in full at registration.
6. Complete the Health Insurance Acknowledgment Form and submit it to the Office of Graduate Services. You are required to maintain adequate health insurance to continue as an active FSU graduate student and as a valid F-1 visa holder.
7. Fulfill program admission requirements.

International Student Application Deadlines

The application and other required documents must be received by the Office of Graduate Services according to the following schedule:

Semester Planning to Enter FSU	Deadline for Submitting Complete Application*
Fall Semester	June 1
Spring Semester	Oct. 15
Summer School	Jan. 15

*Refer to application guidelines listed in specific degree programs.

We will not grant you an I-20 until we have received all your required information.

If you are an international student residing outside the United States, you should not come to Frostburg State University before receiving a formal letter of admission and an I-20. For complete instructions, contact the Office of Graduate Services, Frostburg State University, Frostburg, MD 21532-1099, U.S.A.

International Students at FSU

Each semester Frostburg State University hosts a number of international students from all over the world. In addition to providing services in dealing with the U.S. Citizenship and Immigrations Service (UCIS), academic counseling and organizing a number of social events and excursions, the Center for International Education also oversees the awarding of a number of scholarships to international students attending Frostburg State University. Awards are available both to incoming and returning international students in F or J status.

For further information, call the Center for International Education at 301.687.4714 or visit the CIE on the Internet at: www.frostburg.edu/admin/cie/cie.htm.



Expenses, Financial Aid & Scholarships

Expenses

This information applies to the academic year 2010-2011 only. Please see appropriate Registration Guidelines for 2011-2012 rates. 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, full-time, evening or summer, is \$317 per credit hour for resident graduate students, and \$386 per credit hour for non-resident graduate students.

Students taking courses for pass/fail or courses without credit designation will receive assigned equivalency credit hours for tuition and fee purposes.

Fees

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

Activities Fee: An optional activities fee of \$12 per semester is collected to support

student publications, the campus radio station, social activities, student government and a balanced program of cultural events. To be billed for the activities fee, write to the University and Student Billing Office to indicate the number of credits for which you are registered.

Application Fee: Applicants pay a \$30 non-refundable application fee when they apply to the University. This one-time only fee is sent directly to University and Student Billing at the same time the application is mailed to the Office of Graduate Services. This fee is waived for FSU graduates.

Main Campus Fees

Note: You are not required to pay the following fees if you are enrolled at an off-campus site.

Athletic Fee: A non-refundable athletic fee of \$35 per credit hour for graduate students is used to support the University's program in intercollegiate and intramural athletics.

Auxiliary Facilities Fee: An auxiliary facilities fee of \$24 per credit hour for graduate students is assessed for construction expenses of the auxiliary facilities.

Student Union Operating Fee: Graduate students are charged a student union operating fee of \$15 per credit hour for operating expenses of the Lane University Center.

Transportation Fee: \$2 per credit hour is charged for graduate students, allowing students to ride Allegany Transit Authority buses by showing a student ID.

Graduate Tuition & Fees 2010-2011*

Tuition (per credit hour)

Maryland Residents**	\$317
Out-of-State Residents	\$386

Semester Fees (per credit hour)

Athletic Fee+	\$35
Auxiliary Facilities Fee+	\$24
Student Union Operating Fee+	\$15
Activities Fee (optional)	\$12
Technology Fee	\$10
Transportation Fee	\$2

Other fees & expenses

See detailed explanation at right.

Application Fee, one time only, waived for FSU graduates	\$30
Career Services Credentials	\$20
3-Pay Payment Plan	\$60 per semester
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
Vehicle Registration	day \$40 per year
	evening only \$10 per year
Student Teaching Internship	\$350
Recreation and Parks Orientation Fee	\$250

During the summer, you will be required to pay a University fee for the administration of summer school.

* See Graduate Schedule Booklet for 2011-2012 rates.

**See Policy for Student Residency Classification, policies chapter of this catalog.

+You are not required to pay these if you are enrolled at an off-campus site.

Note: 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.

Other Fees and Expenses

Technology Fee: Graduate students are charged \$10 per credit hour to fund technology initiatives for student enhancement.

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.

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

EXPENSES

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 check given in payment of any obligation is returned by the bank. 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 checks returned to the University by the bank as "unpaid" (this includes checks on which payment has been stopped and electronic transactions) must be paid within 7 days of the University's notification to the student.

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

Students who register for evening classes only may purchase a permit at the reduced price of \$10. Evening permits are not valid from 6 a.m. to 4 p.m., Monday through Friday. Permits are issued for the academic year.

Room and Board

Graduate students may choose to live in University residence halls. Rooms are assigned on a space-available basis. Room contracts are binding for 1 academic year (fall and spring semesters). All students living in the residence halls are required to purchase a meal plan for the University dining hall.

Residence Hall Damage Deposit

You will be charged a \$100 damage deposit before you move on campus your first semester. Money will be deducted from this deposit for the following:

- (1) Damages to your room and room furnishings.
- (2) Damages to common areas within your residence hall if these damages are unreported and/or unclaimed. These damages will be charged collectively to the residents.

The balance of this damage deposit remains in your account until the end of the spring semester or until you leave the halls. It will be refunded annually through the State Comptroller's Office.

If the remainder of the deposit is not sufficient to cover damage costs, you will receive a miscellaneous bill for the outstanding amount.

Payment of Fees

Make all checks or money orders payable to Frostburg State University for the exact amount on the bill you receive. All fees must be paid prior to the beginning of each semester or before the date shown on the statement of fees. Students will not be admitted to classes until all bills have been paid or they have made approved arrangements with the University & Student Billing Office and they may not register for the next semester. Failure to meet the due date may result in the cancellation of the student's schedule.

FSU accepts online payments via PAWS or www.frostburg.edu/admin/billing. Two forms of payment are accepted: ACH (electronic check) and credit card (MasterCard, American Express and Discover). Additionally, FSU has a voice payment system. To pay by ACH, call 1.866.881.3015, or credit card, call 1.866.881.3016. Be aware that all credit card transactions (online or phone system) charge a convenience fee for usage.

Payment Plans

Frostburg State University has partnered with SallieMae to offer several payment plans through TuitionPay. All the plans are interest-free, debt-free ways to spread tuition payments over a number of months. To enroll in one of our payment plans, visit www.TuitionPay.com or call 1.800.635.0120. Three plans are available.

- **10-month plan:** Enrollment in the 10-month plan commences July 1 and continues through April 1. With this plan, the cost of attendance for fall and spring are added together less financial aid and divided by 10. The non-refundable enrollment fee for this plan is \$75 per year.
- **5-month plan:** Enrollment in the 5-month plan is geared for students who are enrolled for one semester only. The cost of attendance for one semester less financial aid is divided by 5. The fall plan begins July 1 and continues through Nov. 1. The spring plan begins Dec. 1 and continues through April 1. The non-refundable enrollment fee for this plan is \$75 per semester.
- **3-pay plan:** Enrollment in the 3-pay plan is for one semester. The cost of attendance less financial aid is divided by 3. The first payment is due upon enrollment in the payment plan; however, enrollment in the plan must be completed by the semester due date to avoid late fees. The second payment is due 30 days after the first day of classes and the final payment 30 days later. The

non-refundable enrollment fee for this plan is \$60 per semester.

- You may request information about this directly from University and Student Billing, 301.687.4321, or toll free: 1.888.689.1628.

Charges for Collection of Unpaid Bills

If a student's account is not promptly paid, the University will turn it over to the Maryland State Central Collection Unit and a 17 percent collection fee will be added to the bill. If further collection action is needed, an outside agency will be retained and those charges will also be billed to the student. The state may also withhold any refund due to the student from the Maryland State Income Tax and apply it to the overdue account.

Identification Card

You should obtain an FSU identification card, which is required for access to certain facilities and equipment and will admit you to University-sponsored activities and events. You must have an ID card to check books out of the University library. ID cards are processed and obtained in the ID Office located in the north lobby of Chesapeake Dining Hall (enter the door nearest Frederick Hall). The hours are 9 a.m.-1 p.m. and 2-4 p.m. daily.



Refund Schedules

Fall and Spring Semesters

Before the end of each registration period	100% tuition refunded
Before the 15th calendar day after the official start of classes for that session	80% tuition refunded
From the 15th day until the end of third week after the official start of classes	60% tuition refunded
During the 4th week after the official start of classes	40% tuition refunded
During the 5th week after the official start of classes	20% tuition refunded
At the end of the 5th week after the official start of classes	0% tuition refunded

Fee Refund Schedule (including summer session)

Application fee	0% refund
Board fee	- Up to mid-semester prorated on a weekly basis plus 1 week - After mid-semester 0% refund

Summer Sessions

Before the end of the summer registration period	100% tuition refunded
Before the end of 1/5 of the length of the session, but in no case beyond the 7th calendar day of the session	80% tuition refunded
Before the end of 2/5 of the length of the session	40% tuition refunded
At the end of 2/5 of the length of the session, but in all cases beginning with at least the 15th calendar day of the session	0% tuition refunded

*In the case of special courses of short duration (i.e., 1 week or less), this policy will be applied on a pro rata basis in a manner consistent with the policy.

Non-refundable Fees

The following fees are non-refundable after the end of each registration period, including the summer session and Intersession:

Room Rent Fee	Private Music Fee	Transportation Fee
Activities Fee	Student Union Operating Fee	University Fee
Athletic Fee	Student Teaching Fee	Vehicle Registration Fee
Auxiliary Facilities Fee	Course Fees	Class Fees
Internship Fee	Recreation and Parks Orientation Fee	

Financial Aid

The University program of financial aid helps students who have limited financial resources. Every effort is made to aid qualified students in need of financial assistance through loans, scholarships and part-time employment.

The Financial Aid Office operates with an open-door policy and provides financial aid information to assist students with the application process.

Application Process

All students applying for financial aid through the University must complete the **Free Application for Federal Student Aid (FAFSA)**. The application is available on the Internet at www.fafsa.gov. By submitting this form, graduate students will be considered for federal, state and institutional aid.

Student Loans

Stafford loans are a major form of self-help aid that are available to graduate students who are enrolled for at least 6 credits per semester. These loans are made available through the federal government. Instructions for applying

will be sent to students. Stafford loans are either subsidized or unsubsidized and to be considered for either loan, a student must complete the FAFSA form.

A **subsidized** loan is awarded on the basis of demonstrated financial need. A borrower will not be charged any interest during the in-school period on a **subsidized loan**.

An **unsubsidized** loan is not awarded on the basis of need. A borrower is charged interest from the time the loan is disbursed until it is paid in full. If a borrower allows the interest to accumulate, it will be capitalized—i.e., the interest will be added to the principal amount of the loan.

Refund Policy

The following regulations govern refunds available upon withdrawal from the University or when other changes of status take place. To withdraw from the University, you must complete an official withdrawal card and file it in the Office of Registration and Records before you are entitled to any refund. Because refund amounts change depending upon when you file, the date used to determine refunds will be the date on which you submit the final filing or change of status to the Office of Registration and Records.

For Intersession, refunds of tuition are provided up to and including the last day of registration.

Students dismissed for disciplinary reasons are not entitled to any tuition or fee refund.

Student Refund Policy For Title IV Recipients

See page 16 of this catalog for information regarding the Student Refund Policy for Title IV recipients.

Office of Financial Aid
114 Pullen Hall: 301.687.4301
Fax 301.687.7074

Note: If your interest is capitalized, it will increase the amount you have to repay. If you choose to pay the interest as it accumulates, you will repay less in the long run.

Generally, as a graduate student, the maximum you can borrow in a subsidized loan is up to \$8,500 each academic year. Keep in mind that you may receive less if you receive other financial aid or resources (such as the benefit of tuition waivers) that are used to cover a portion of your cost of attendance.

Important notes about financial aid, including Stafford loans:

- Students must reapply for financial aid each year.

FINANCIAL AID

- Students must be enrolled for at least 6 credits and be pursuing a degree.
- Changes in eligibility (such as receipt of additional resources, changes in enrollment, etc.) may result in loan reduction.
- Graduate students must maintain satisfactory progress standards as listed below.

Satisfactory Academic Progress Standards for Graduate Students

Federal regulations require that institutions of higher education establish minimum standards of "Satisfactory Academic Progress" for students who receive federal financial aid, including loans under the Federal Family Educational Loan Program (Stafford subsidized and unsubsidized loan programs). As a result, the FSU Financial Aid Office is required to evaluate all recipients' progress toward obtaining a degree. Students who fail to meet these requirements will not be eligible to participate in any federal Title IV programs of which federal student loans are a part. To meet satisfactory progress standards, students are required to:

1. Complete **at least 67 percent** of attempted credits throughout graduate enrollment.

Example 1: You enroll for 9 credits fall and only complete 6 of those credits satisfactorily (get an incomplete in three credits), then enroll for 12 credits in spring and complete 6 credits satisfactorily. You have attempted 21 credits (9 + 12) and completed 12 (6 + 6).

$$12/21 = 57 \text{ percent}$$

You do not meet satisfactory progress standards.

Example 2: You enroll for 9 credits fall and complete all 9 satisfactorily, then enroll for 9 credits spring and complete 6 hours satisfactorily. You have attempted 18 credits (9 + 9) and completed 15 (9 + 6).

$$15/18 = 83 \text{ percent}$$

You have completed over 67 percent of your attempted credits and have thus maintained satisfactory progress standards.

Keep in mind, the above calculation will be determined by the number of semester hours for which the student is enrolled on the last day of the drop/add period of each semester.

2. Students must **maintain** a minimum cumulative grade point average of **3.0**.
3. Students completed hours must not exceed 60 credits (some majors are allowed more credits due to accreditation requirements).

Students should be aware that while academic probation may allow them to continue enrollment, they may not be eligible for financial aid.

*(*Academic year includes all periods of the student's enrollment, including summer session/s.)*

NOTES:

1. The following grade symbols will be considered as credits passed:
A, B, C, P
2. In addition to the grades listed as credits passed, the following grades will be calculated in credits attempted:
W, WF, CS, NC, F, FX, N, I
3. Courses that a student repeats will be included in hours attempted.
4. If a student has been ineligible for financial aid during the previous semester and he or she now meets standards, it is the student's responsibility to notify the Financial Aid Office of regained eligibility.
5. Each semester (including summer sessions) is counted as a semester/session attempted, regardless of whether or not the student was a financial aid recipient.
6. Reminder: GPAs do not transfer from one institution to another.
7. Satisfactory academic progress has no bearing on graduate assistantships.

Appeal Process

All students have the right to appeal when they are notified that they are ineligible to receive financial aid because they are not making satisfactory academic progress. The University makes every effort to notify ineligible students by first-class mail at his or her home address immediately following the spring semester from which that ineligibility is determined. However, keep in mind it is the student's responsibility to recognize his or her ineligibility and actively pursue appeal procedures where mitigating circumstances exist.

Appeals should be based on mitigating circumstances, such as serious physical or emotional problems. All appeals must clearly state the student's special circumstances. In

addition, the student is responsible for supplying any additional documentation that may support his or her claim. For instance, a letter from a physician is required in the case of a physical problem. The appeal should also state the specific means by which a student intends to attain satisfactory academic progress in the future.

Students wishing to appeal must submit their appeals to the Financial Aid Office. The deadline for submitting appeals is normally within 2 weeks of the semester's ending date. The Financial Aid Appeals Committee then reviews such appeals and students are notified of the outcome of appeals within 10 days after the appeal submission deadline.

Special Note: Federal regulations require your written permission to deduct, from your financial aid on an annual basis, miscellaneous institutional charges such as library fines, etc. You must sign and complete a permission form, which will be available online. If at all possible, you should submit this permission form prior to billing. If you choose not to complete the permission form, you will be responsible for paying any miscellaneous obligations from personal funds by the bill payment deadline date. Note: The University **may not apply** your loan funds to any charges assessed to you in a prior award year.

Return of Title IV Funds for Financial Aid Recipients

FSU is required to use the mandatory Return of Title IV Funds policy established by federal regulations. All Title IV financial aid recipients who officially and/or unofficially withdraw from the University are affected. Title IV aid included in this refund policy is as follows: Federal Perkins Loan, Subsidized Stafford Loans and Unsubsidized Stafford Loans.

When a student withdraws from the University before 60 percent of the semester has elapsed, his or her Title IV financial assistance will be adjusted based on the amount of aid the student has earned up to the date of withdrawal. After the calculation has been performed, the amount of unearned aid will be returned to the various Title IV programs. The funds will be returned to the various programs in the following order:

- **Unsubsidized Stafford Loans**
- **Subsidized Stafford Loans**
- **Federal Perkins Loans**

Each student will be responsible for the remainder of his or her bill after Title IV funds have been returned. Therefore, a student contemplating withdrawal from the University should contact the Financial Aid Office about how financial aid will be adjusted as a result of withdrawal.

Graduate Assistantships

Graduate assistantships are offered each year to outstanding students. Graduate assistantships represent an honor and distinction and are given only to high-quality students.

Graduate assistants receive a stipend in the amount of \$5,000 for the academic year. In addition, the graduate assistant receives a tuition waiver, which amounts to as much as \$9,510 to \$11,580 annually. Graduate assistants engage in research studies, projects, teaching or other activities that are usually related to their programs of study.

Terms of Assistantship

Graduate assistants are expected to pursue and perform assigned activities for 20 hours each week during their assistantship. Normally, there are 15 weeks in the fall and spring semesters and 6 weeks in each of two summer terms. However, orientation for assistantships may require time during the week before classes start. Any deviation must be approved by the student's supervisor and the graduate program coordinator.

Sick Leave

There is no provision for sick leave. If the assistant is sick on one of the days that he or she is scheduled, the appropriate number of work hours is still required for that week. Notification and rescheduling are the responsibility of the graduate assistant who must work with the supervisor and/or graduate program coordinator to gain the approval. Inability to work for extended periods or irregularly because of illness may be cause for termination of the assistantship.

Summer School Assistantships

Students who are graduate assistants during the previous academic year or semester may receive graduate assistantships during the summer if approved by the department. However, when a graduate assistantship position requires an occupant during the summer and no continuing graduate assistant is available, a new student may fill that position.

Other Employment

Graduate assistant responsibilities combined with course work represent a full-time undertaking. Graduate assistants are full-time students who are registered for 9 or more graduate credits and work 20 hours per week. Graduate assistants are not permitted to work for pay for more than 20 hours per week for the University.

Graduate assistants may work additional part-time jobs provided they meet all three of the following:

1. The additional jobs do not interfere with their academic success.
2. The additional jobs do not interfere with the responsibilities or schedule assigned to their graduate assistantship.
3. The additional jobs do not take away opportunities for other students to gain financial assistance.

These additional part-time jobs do not include a second assistantship. Performance, both academic and job-related, will be monitored by the student's academic advisor/graduate program coordinator and the advisor will sign each student's time sheet to indicate acceptable levels of performance. *This policy does not extend to international students, who are restricted to a 20-hour work-week by the U.S. Citizenship and Immigration Service (UCIS) guidelines.*

Tuition Waiver

Tuition waiver is granted to graduate assistants. Normally, graduate assistants are provided tuition waiver for 9 to 12 credits per semester, but may not exceed 30 credits over any 12-month period. ***The tuition remission waiver covers only courses approved by the program coordinator, required in the degree program, included on an approved study plan and only during the semester and/or summer session for which the assistantship is granted.***

Evaluation

The program coordinator/supervisor is responsible for providing feedback on performance to the graduate assistant. That feedback should identify strengths and weaknesses of the performance and offer constructive suggestions for improving performance where it is less than expected. The evaluation should be both oral and written, with the written portion retained in the file of the graduate assistant.

Termination

Termination of the assistantship by the student prior to the end of the assistantship completion date requires 2 weeks' written notice to the program coordinator and the school dean or contract originator. In such cases, tuition waiver is voided, and the student is billed for the tuition owed for the semester. If the student works until the termination date, the stipend continues until that date.



Old Main

SCHOLARSHIPS AND AWARDS

Termination of the graduate assistantship by the University is the responsibility of the dean or contract originator. Graduate assistants can be terminated for cause only.

Termination should be considered only as a last resort and after all other alternatives have been pursued. Grounds for termination shall be unsatisfactory performance (e.g., extended absenteeism or illness, violation of the terms of the contract). To ensure fairness and to protect the rights of the graduate assistant, the following process for termination has been developed.

If the program coordinator/supervisor recommends to the department chair that a graduate assistant be terminated, there must be adequate documentation substantiating the termination. This would include accurate documentation of the problem(s), demonstration of effort to assist the graduate assistant in correcting the problem(s) and a copy of at least one written warning to the graduate assistant. The graduate assistant has the right to appeal a termination decision of the department chair to the dean or contract originator.

If cause is established and termination of the graduate assistant results, payment of the stipend and voiding of the tuition waiver is the same as when the student terminates the assistantship.

Eligibility and Enrollment

Eligibility for a graduate assistantship requires full admission to a master's degree program.

Students who have begun study and have been admitted to a degree program must

be in good academic standing and maintain a minimum grade point average of 3.0 in all courses taken for graduate credit. In addition, graduate assistants must register for a minimum of 9 credits leading to the degree during every semester of the assistantship. If awarded an assistantship for a summer session, the student must be registered for 3 credits for that session.

Responsibilities

The performance of graduate assistants in their assigned responsibilities is expected to be of the highest quality throughout the term of the appointment. Specific responsibilities are assigned by the designated supervisor. Ordinarily, assignments will include research studies, projects, teaching and other activities directly related to the graduate assistant's program of study GA assignment.

Reapplication

Current graduate assistants applying for an assistantship for the subsequent academic year need only complete the first page of the application; references are optional.

Submission of the first page must occur by the deadline for applying for an assistantship.

Processing Requirements and Procedures

For the contract to be executed (i.e., for you to work), all documentation paperwork must be completed. Additional documentation to be completed includes the Employee Withholding Exemption Certificate, the University of

Maryland System Graduate Assistant Tuition Remission Form, Authorization to Release Information, Payroll Direct Deposit Authorization and an INS I-9 form. The first four forms are returned along with the contract; the I-9 form is returned in person to the Office of Payroll & Employee Services (318 Hitchins Administration Building) *no later than the date of hire*. When submitting the I-9, you will need to bring with you original government-issued identification documents such as driver's license and Social Security card or birth certificate.

For more information

Contact the Office of Graduate Services for detailed information about graduate assistantships at 301.687.7053 or e-mail gradservices@frostburg.edu.

Scholarships and Awards

Because Frostburg State University is firmly committed to academic excellence, a number of scholarship programs are available to graduate students. Several have been established through the Frostburg State University Foundation; others are made available by the state of Maryland, individual donors, businesses and corporations, and civic organizations.

The Financial Aid Office publishes a **Scholarship Booklet** that describes all of these scholarships and lists the criteria to be considered, as well as the contact person and deadline date for each award. Contact the Financial Aid Office at 301.687.4301 for a copy of this booklet or review online at www.frostburg.edu/scholarships.



Student Services

The University has a number of services available to you. Among these are counseling and testing, career services, computing services, health services, housing, cultural activities, as well as a day care center.

Regulations pertaining to matters on student life are found in the *Pathfinder*, the Residence Hall Handbooks and other bulletins issued by University officials.

Health Services

- **Required Forms:** When you are accepted at the University, in your acceptance package, you will receive a Medical History Form and an Immunization Form. These must be completed, signed and returned to the University by all undergraduates and international students (undergraduate and graduate).
- **Physical:** If you are planning to participate in the intercollegiate athletic program or if you anticipate applying to the Athletic Training Education Program, you **must have** the physical examination portion, located on the back of the medical history form, completed and signed by a physician or health care provider.
- **Immunizations:** The University requires all students to have the following immunizations: Two doses of MMR (Measles, Mumps, Rubella), Diphtheria/Tetanus within the past 10 years and tuberculosis screening within the past 12 months. These dates must be recorded on the Immunization Form and this **form must be signed by a physician or health care provider.** You must have a completed immunization record on file at the Brady Health Center.
- **Fees:** There is a user fee (currently \$10) for each visit to the health center. Also, there are miscellaneous charges for diagnostic tests, immunizations, treatments and prescription medications. Payment is due at time of service and may be made at the center by cash, check or Bobcat Express Card.
- **Services:** The Brady Health Center is available for all students and emphasizes prevention of health problems through health education. They offer direct care services for common health problems, combined with referrals to community health agencies, hospitals and specialists. A list of services is available at the health center.
- **Health Insurance:** Although the Brady Health Center does not bill your insurance carrier, it is strongly recom-

mended that you carry health insurance in case you are referred to a local laboratory, clinic, hospital or physician for continued care. If you do not have health insurance, an affordable plan is available through United Healthcare Insurance. See the Brady Web site (www.frostburg.edu/brady) for links to student health insurance information or call Brady Health at 301.687.4310.

Counseling and Psychological Services

Counseling and Psychological Services, located in Sand Spring Hall, provides services throughout the academic year and during the summer months. Individual and group counseling—personal, vocational and educational—is provided by experienced counselors and psychologists. The service is accredited by the International Association of Counseling Services.

In addition, counseling and skill-building groups, psychiatric consultation, psychological testing and referral services are available. All counseling sessions are private and confidential and in no way related to your University standing or records.

Appointments may be made in person or by telephone Monday through Friday, 8 a.m. to 5 p.m., at 301.687.4234. Services are provided without charge.

University Testing Program

The Counseling Service provides information for the Graduate Record Exam (GRE), the Miller Analogies Test (MAT), the PRAXIS, the Law School Admission Test (LSAT) and the Medical College Admission Test (MCAT).

On-campus testing is available for the Graduate Record Exam (GRE), the PRAXIS, the Medical College Admission test (MCAT) and the National Board for Professional Teaching Standards (NBPTS) at the Computer-Based Testing Center in Pullen Hall 105-A. Appointments may be made by calling 301.687.7990. Appointments for the Miller

Analogies Test (MAT) may be made by calling the Counseling Service at 301.687.4234.

Career Services

The Office of Career Services offers a variety of programs and services for graduate and undergraduate students enrolled at Frostburg State University. Career Services assists students with entry into professional careers and encourages the development of job search skills that will facilitate mobility in these careers. Individual assistance is available in the form of career counseling, self awareness and assessment, career exploration, career research, resume critiques, mock interviews and job search assistance.

Graduate students are eligible to enroll in our programs designed to promote the career development and job preparedness of our students.

The Career Resource Center offers DISCOVER, a computerized career guidance system, written career information and Internet access to Web career exploration resources. It is open for your use weekdays, 8 a.m. until 4:30 p.m. On occasion, the office has extended hours. Please check with the office.

Additional programs offered include campus workshops, credential file services, on-campus recruitment and resume referrals. Alumni Expo is sponsored annually where alumni return to campus during the fall to speak to students regarding their career development and their current job responsibilities.

Students may participate in the Career and Internship Fair in April, and a Teacher Education Job Fair is held in late April each year. Job listings and career development information can be accessed at www.collegecentral.com/frostburg.

The Office of Career Services is open Monday through Friday, 8 a.m. to 4:30 p.m., and is located in Sand Spring Hall, 301.687.4403.

Disability Support Services

Through the Office of Disability Support Services (DSS), the University provides accommodations so that students with disabilities may participate in academic programs as well as other campus activities. Some of the services available to students through DSS include the following:

- Extended time for testing and other test modifications



- Books on tape and reader services
- Notetaker services
- Sign language translators

The DSS Office is located in 150 Pullen Hall, phone 301.687.4483 (voice) or 301.687.7955; Voice Relay Operator at 1.800.735.2258.

Policy on Compliance With Disability Discrimination Laws

Frostburg State University is committed to compliance with Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and the Americans With Disabilities Act of 1990. It is a priority of the University to ensure full participation in programs, employment and activities for all individuals.

Reasonable accommodations shall be provided, upon request, to employees, students and visitors to the University who are eligible to receive them.

All University publications and events announcements shall contain a statement informing persons with disabilities of the procedure for requesting accommodations. New construction projects and renovations shall comply fully with all federal, state and local codes, including the Americans With Disabilities Act Accessibility Guidelines and the Uniform Federal Accessibility Standards.

The University is committed to ensuring nondiscrimination and to resolving any complaints related to disability in a prompt and equitable manner. The ADA/504 compliance officer shall attempt to resolve complaints

following the University's internal grievance procedure.

Writing Services

Writing services are available to all students with writing concerns. Students can receive individual help with coherence and unity; development of ideas; overcoming wordiness, redundancy and vagueness; grammar and punctuation; and MLA, APA and other documentation styles.

The Tutoring Center is open Sunday, 6 to 8 p.m.; Monday through Wednesday, 10 a.m. to 8 p.m.; Thursday, 10 a.m. to 6 p.m.; and Friday, 10 a.m. - 4 p.m. It is located in 151 Pullen Hall, 301.687.3077.

Alcohol/Drug Programs

Frostburg State University believes that members of the University community who use illegal drugs or misuse/abuse alcohol severely limit their educational and human potential and their ability to achieve educational, career and other personal goals. The Alcohol/Drug Education coordinator provides educational programs and activities for all members of the University community to increase their knowledge, awareness and understanding of drugs and alcohol.

The University assists its members who seek rehabilitation by offering counseling and other support services. In addition, the University works closely with local agencies coordinating services with those of the University.

FSU provides alcohol/drug counseling information and services through the University

Counseling and Psychological Services and the Substance Abuse Facts and Education (SAFE) Office. Both offices are located in Sand Spring Hall.

Office of Veterans Affairs

The Office of Veteran Affairs exists to serve the needs of individuals eligible for Veterans Administration educational benefits. The staff of the office is here to assist veterans, veteran's dependents and others eligible for educational benefits with problems or questions regarding benefits, certification or other matters relating to VA benefits. The office is located in Sand Spring Hall Room 110 and is open during the hours posted. The campus phone number is 301.687.4409.

It is advisable for new, re-entering or returning students, who are or may be eligible for VA benefits, to contact the Office of Veterans Affairs prior to registration to ensure that all necessary VA paperwork is properly initiated. Please remember, eligibility for VA educational benefits is determined by the Veterans Administration. Eligibility for VA educational benefits bears no relationship to an individual's indebtedness to Frostburg State University.

Housing

Graduate students who have been admitted to the University and have been issued a seven-digit student ID number are eligible to apply for on-campus housing; the ID number is included in the acceptance letter issued by the Office of Graduate Services. Interested students must complete a housing application online at www.welcome-mat.net/frostburg_terms. It is important that you apply well in advance of the term in which you plan to begin graduate study. Graduate students will be assigned to on-campus housing as space remains available. The Residence Life Office makes an effort to assign roommates of comparable age, and graduate students generally are assigned to either Frederick or Westminster Hall; single rooms are typically not available except in Edgewood Commons apartments.

All students choosing to live on campus sign a one school year (fall and spring semester) housing contract that cannot be broken mid-year. Students interested in applying to live in Edgewood Commons apartments (a privately managed facility) must also complete a separate application.

Campus Activities

Lane University Center

The Lane University Center houses the Alice R. Manicur Assembly Hall, numerous meeting rooms and a game room complete with billiards, pinball, video games and TV viewing area. Additionally, it is home to the Campus Information Desk, Student Activities Office, Cultural Event Series ticket office, Office of Greek Life and Leadership Programs, the UPC, Student Government Association, Black Student Alliance and *The Bottom Line* student newspaper. The Lane University Center Loft is a multi-functional space that features a TV lounge, stage, study area and coffee bar.

Off-Campus Student Mailboxes

There are mailboxes and lockers for off-campus students located in the Lane University Center free of charge on a first-come, first-served basis. Interested students should inquire at the Reservations Office, room 231, located on the second level of the LUC behind the Campus Information Desk.

Appalachian Station

Your stop for hot food with express service, Appalachian Station offers breakfast, lunch and dinner. Menu items include pizza, made-fresh deli sandwiches and salads.

The Loft

If you want simply the best in hot beverages, visit The Loft for a sample of one of Java City's selections: cappuccinos, latte, mochas, all made to the exacting specifications of one of the world's most famous purveyors of fine



coffees and teas. Great sweet treats and cold drinks round out the offerings in the best spot on campus to either grab a cup on the go or to kick back and relax with a frothy hot one.

University Programming Council

The University Programming Council (UPC) is dedicated to providing not only a well-balanced program of activities to foster and encourage education in the extracurricular and co-curricular life of the students and

Frostburg State University, but to extend assistance and program expertise to student organizations in an effort to coordinate the activity programs of the University campus. UPC offers a wide variety of programs, including music, comedy, dances, concerts and special events.

Cultural Events

Each year the University sponsors many cultural events in the fine and performing arts. The Cultural Events Series (301.687.3137) presents professional performances throughout the year. Past guests have included Jack Klugman, Herbie Hancock, Maroon 5 and The Roots, as well as Broadway musicals such as "Seven Brides for Seven Brothers," "Hello Dolly" and "Cabaret"! FSU students receive discount ticket pricing for all CES performances. Opportunities also exist for students to work with CES to assist in the production of the events, as well as workshops and educational outreach opportunities.

University departments present major theatre productions, numerous music performances, poetry readings, lectures, art shows and other events featuring students and visiting artists.



Sports

Sports for men and women, both intercollegiate and intramural, are presented through the Department of Athletics. There are 21 intercollegiate sports, 11 for women and 10 for men. There are also intramural sports consisting of male, female and co-ed competition as well as club sports.

Intercollegiate sports include baseball, men's and women's basketball, men's and women's cross country, field hockey, football, men's and women's lacrosse, men's and women's soccer, softball, men's and women's swimming, men's and women's tennis, men's and women's indoor and outdoor track and women's volleyball.

Intramural sports include flag football, singles tennis, doubles tennis, basketball, volleyball, doubles racquetball, indoor soccer and wrestling. Club sports include men's wrestling, men's and women's rugby, men's volleyball, and men's and women's karate.

Department of Athletics

Competing in Division III of the National Collegiate Athletic Association (NCAA), Frostburg State University is a member of the Eastern Collegiate Athletic Conference (ECAC), the Capital Athletic Conference (CAC), the Atlantic Central Football Conference (ACFC) and the Mason-Dixon Conference. As a member of NCAA Division III, FSU can

offer no athletic scholarships. Frostburg State has won championships in the NCAA, ECAC, Allegheny Mountain Collegiate Conference (AMCC) and the Mason-Dixon Conference and hundreds of FSU student-athletes have earned All-American honors over the years.

As a result of paying an athletic fee, students are admitted free of charge to home athletic events, have access to recreation facilities and may participate in intramural and club sports. The Athletic Department administers and funds the intramural and club sports programs at the University. A variety of intramural activities are held each year for both men and women.

Media and Student Publications

Students who want invaluable experience in media can take part in several extracurricular activities. Writers, editors and artists/designers can join the staffs of two official student publications: *The Bottom Line*, a student newspaper, and *Bittersweet*, a literary magazine. Students interested in broadcasting can work at WFWM, the campus radio station. FSU-TV transmits important campus information over channel 3.



Academic Regulations & Procedures

As a graduate student, you must assume the responsibility for obtaining the Graduate Catalog, becoming familiar with degree requirements and academic regulations as stated in the catalog and filing the necessary forms at the appropriate times.

Basic Master's Degree Requirements

To graduate from the University with a master's degree, you must meet all the following requirements:

1. You must have been admitted into a degree program.
2. You must have been admitted to degree candidacy where required by the degree program.
3. Your program of study must include at least 30 credits.
4. You must have a minimum grade point average of 3.0. The grade point average is determined by all courses taken excluding repeated ones where the most recent grade is used in the computation, passed courses where no grade is given and transferred courses.
5. All your course work for the degree must have been completed within six years.
6. You must have submitted your Application for Graduation to the Office of Graduate Services.
7. All tuition, fees and other financial obligations to the University must have been satisfied prior to graduation.

Grading System

The course work of graduate students is evaluated according to the chart below.

The grade of F is the only grade lower than C and does not count toward the master's degree.

The grade of I (incomplete) is assigned in exceptional cases if you are unable to complete the requirements of a course. An I grade may be removed and another grade substituted if you complete the course requirements to the instructor's satisfaction before the end of the following semester. If you fail to remove the incomplete within the prescribed period, the I will be replaced by an F on your permanent record.

Continuous Registration Grading Policy

For thesis, field experience, or internship culminating courses (BIOL 710, EDUC 710/700, PHEC 710/700) the grade of CS (continuing study) may be given to students who are required to register for additional credits to complete their program requirements. Upon completion of all program requirements, including the culminating experience, the faculty member will submit a grade change form with the appropriate grade (as designated in the course description) for the minimum number of credits required for the culminating experience. The continuous registration credits in excess of the minimum required will have the CS grade replaced with the grade of NC (no credit) or P (pass). If you do not continuously enroll in BIOL 710, EDUC 700/710, PHEC 700/710, you will be dismissed.

Credit and Course Load

Your normal course load as a full-time graduate student is 9 to 12 credits per semester or summer. Requests for a course load above 15 credit hours during any one semester or summer must be approved by your advisor. Graduate assistants will be expected to carry 9-12 hours of course credits per semester/summer.

Course Numbering

Courses approved for graduate credit are numbered at the 500, 600 and 700 levels. Courses at the 700 level are capstone experiences or thesis and research/projects.

Course Repetition

You are permitted to repeat a graduate course with the approval of your graduate program coordinator **only once** and up to a maximum of one course in which a grade of **C, F, FX or WF** was earned. If the most recent grade for the repeated course is an F, FX or WF, or if you fail a required course after you have repeated the maximum credit hours allowed, you will be dismissed from the University.

Course Changes/Withdrawal

Changes in your course schedule are permitted only during the first week of the semester. You may officially withdraw from a course without penalty during the first six weeks of classes (or the equivalent period during a summer session). A grade of W shall be assigned in such cases. After the first six weeks of classes (or the equivalent period during a summer session), if you withdraw from a course but not from the University, you will be assigned a grade of W (withdrew) or WF (withdrew failing), except that a grade FX shall be assigned if you withdraw from the course without completing the proper drop procedure. To withdraw from a course, complete a drop/add form available in Office of Graduate Services or send written notification to the Office of Graduate Services. Your signature is required in either situation.

Grading System

A Superior (4.0)	I Incomplete
B Satisfactory (3.0)	P Pass
C Marginal (2.0)	NC No Credit
F Failure (0.0)	FX Unofficial Withdrawal (0.0)
W Withdrew	N Non Pass
WF Withdrew Failing (0.0)	PT Pass by Examination
NR Grades not supplied by instructor	CS Continuing Study



See the graduate program coordinator, department chair or major professor for registration procedures for such capstone courses as MGMT 690, PSYC 695/696, ENGL/HIST/PHIL 700, COSC 700 and EDUC 700.

Master's Thesis, Research Paper/Project, Practica, Internships Continuous Enrollment Requirement

Ordinarily, when you complete the prerequisites, you should enroll in thesis (710), research paper/project (700), practicum/field experience (690) or internship (695/696 and 697). Your initial enrollment in the capstone course is for the minimum number of credits as established by the program/course requirements. Should you be unable to complete this capstone experience during the semester in which you initially enroll, you must register for a minimum of one continuous credit, as described in the program/course requirements, during each subsequent semester until the experience is completed. The instructor of the course, with your major professor (or advisor) and/or the graduate program coordinator, will determine the number of credits based on your progress and the number of credits required by your degree program. [Under exceptional circumstances, a grade of I (incomplete) may be awarded.]

after a written proposal is developed and approved prior to registration. The independent study course is not to be used as a substitute for other courses offered by the academic departments.

The following procedures apply to independent study courses:

1. Complete in triplicate the "Proposal for Independent Study" form, available in departmental offices, and secure the approval of the faculty supervisor and department chair prior to registration.
2. Follow independent study regulations in the catalog with respect to credits per registration and total credits allowed.
3. If your proposal for independent study reflects an intent to gain credit for another course offered by a department, it will not be approved.
4. The department chair is responsible for final approval of your independent study proposal and for course rosters for independent study courses.
5. Faculty supervisors are responsible for assisting you in developing the proposal, granting initial approval of the proposal, assisting you in the independent study as necessary, evaluating the results of the study and submitting the final grade to the Office of the Registrar.
6. Individual departments may establish additional procedures for independent study courses.
7. Submit the independent study form to the Office of the Registrar for all registrations. Approved proposals are kept by the Office of the Registrar for filing. The two copies of the proposal are for you and the faculty supervisor.

Master's Thesis and Research Paper/Project Registration Procedures

To register for master's thesis credit (710) or for master's research paper/project (700), complete the following process:

1. Prior to registration for thesis or paper/project credit, submit to your graduate program coordinator a proposal of the study to be undertaken.
2. The proposal must contain your signature and the signatures of your major professor, graduate program coordinator and, where applicable, the members of your Master's Committee.

While the nature and adequacy of the content of the proposal of the thesis or master's research paper/project are matters for you and your committee to determine, it is suggested that the proposal include, as a minimum, the following elements: (1) date; (2) names of student and all committee members; (3) proposed title of study; (4) subject area and primary research questions; (5) expected contribution of the study; (6) methods, techniques, materials, etc.; (7) expected completion date; and (8) literature cited.

Independent Study

Independent study course are designed to allow you to earn credit for extensive readings, research, practicum or other individualized learning projects in a specific area of study. These projects are carried out under the direct supervision of a faculty member





Academic Probation

When your cumulative grade point average (GPA) falls below 3.0, you are placed on academic probation. You will be notified that your academic progress is unsatisfactory. You have a maximum of two semesters of graduate study to achieve a cumulative GPA of 3.0. If, after two semesters (excluding summer and intersessions) of graduate study you have not achieved a GPA of 3.00, you will be dismissed.

Dismissal

If you earn two grades below the level of B within your first 12 credit hours or if you fail a required course after you have repeated the maximum credit hours allowed, you will be dismissed from the University. Appeals will be considered by the Dean's Office if extraordinary circumstances exist. In such appeals, faculty recommendations will be considered as well as mitigating circumstances.

If you are dismissed from the University for any reason, you may not reapply to the program of study from which you have been dismissed.

Note: Individual degree programs may have additional academic probation and dismissal standards. See the appropriate degree program section of this catalog.

Transfer Credit

A maximum of 9 credit hours from regionally accredited and certain non-regionally accredited institutions, with a grade of B or better, may be accepted for transfer if the courses are appropriate to your plan of study. Grades from courses transferred are not computed into your FSU grade point average.

Credit earned at degree-granting higher education institutions that are not regionally

Schedule of Application for Graduation

Diploma to be received in	Apply for graduation by	Where required, approved thesis submitted to graduate program coordinator by
May	January 31	March 30
August	May 15	July 20
December	September 1	November 1

accredited but that hold national or specialized accreditation recognized by the U.S. Department of Education, and at non-degree granting institutions that are approved by the Maryland State Department of Education, the Maryland Higher Education Commission or a state or local government agency authorized to approve curricula, will be considered for transfer only if an articulation agreement exists between Frostburg State University and the other institution or, at student request, on a case-by-case basis. If an individual review is requested, the graduate student must provide the FSU Office of Graduate Services with a copy of the institutional graduate catalog and a copy of the course syllabi for the course(s) for which transfer credit is desired.

Transfer credit may not be given for graduate-level courses completed in fulfilling baccalaureate degree requirements.

Graduate students who have completed a degree program at Frostburg State University may request a maximum of 9 credit hours to be transferred toward the completion of a second graduate degree at Frostburg State University. The decision to accept previous course work lies with the graduate program coordinator of the most recent program of study. Usually the six-year time limit will be applied (*see Time Limitations below*). A grade of B or better is also required for courses transferred between programs at Frostburg State University.

FSU will not accept transfer credit from another institution for a graduate course previously taken at FSU.

Inter-Institutional Enrollment

Graduate students with full program admission may be approved to enroll in course work at other institutions of the University System of Maryland. If you intend to enroll inter-institutionally and have the graduate course work applied to your degree requirements, you must secure the approval of your

graduate program coordinator, department chair and school dean at FSU. Your program of study must include this graduate course work for it to be applied to degree requirements. The title of the course, number of credit hours and the grade earned become part of your academic record. The grade earned in such course registration will be calculated in your cumulative GPA. Graduate credits earned through inter-institutional enrollment are not considered transfer credits.

Frostburg State University graduate students will pay tuition and fees to Frostburg. Graduate students from other institutions of the University System of Maryland will pay tuition and fees at their home institution.

A complete description of applicable regulations governing this type of enrollment and the form may be obtained in the Office of Graduate Services.



Time Limitations

You will be dismissed from the University if you do not complete all your degree requirements within any of the following time limitations:

- Within six years from the time of completion of the first graduate course
- Within six years after having been admitted as a degree-seeking student

The only exception will be if you received an approved extension on the time limit from your graduate program coordinator and the director of the Office of Graduate Services.

You should also be aware that if you have not enrolled for a period of 18 months, you must reapply for acceptance into the program, and if accepted, enter under the catalog in place at the time of reapplication.

Appeals

Appeals regarding the enforcement and interpretation of, or exceptions to, graduate studies administrative processes (**including admission and graduate assistantships**), regulations and procedures are directed to the appropriate graduate program coordinator and then to the appropriate college dean.

Appeals regarding interpretation of, or exceptions to, degree requirements (**including transfer credit, changes in the catalog year under which your program of study falls**) are directed to the Graduate Council.

Some programs have additional appeals procedures; e.g., students in College of Education graduate programs appeal first to the graduate program coordinators group before going to the Graduate Council. See specific graduate program policies for additional appeals procedures.

Retention of Student Records

When you complete your master's degree program, your file folders will be kept for five years. If you have been admitted but do not register, or if you do not complete a program, your file folder will be kept for six years after the last course completed. If you do not complete the application process, your file folders will be kept for one year. Transcripts of courses taken at Frostburg State University are a part of your permanent record and will be maintained indefinitely by FSU.

Graduation

Degrees are conferred three times in a calendar year: in May, August and December. To apply for graduation, complete and return the application form available from the Office of Graduate Services. You must apply for graduation to receive your diploma and/or participate in commencement ceremonies.

Transcripts

To obtain a transcript of your academic record, put your request in writing to the Office of Graduate Services.

Master of Arts in Teaching - Elementary

Program Purpose

This program is designed to provide qualified individuals with a master's degree and initial certification in the area of Elementary Education by providing study of the knowledge, skills and dispositions necessary for effective teachers. This program contains extensive field work in Professional Development School settings and anticipate the full-time enrollment of the candidate. This program presumes a particular sequence of certain research-based courses.

Certification

The MAT-E program is intended to lead to an initial full Maryland certification in Elementary Education.

Program Location

Offered by FSU **only** at the University System of Maryland - Hagerstown

Program Objectives

- Provides candidates with an integrated, quality and intensive research-driven experience for teacher preparation
- Provides candidates with the knowledge, skills and dispositions of highly effective teachers
- Develops candidates who will demonstrate satisfactory performance on all relevant NCATE, state and constituent professional association program standards for the specialization area and on the College of Education's Conceptual Framework outcomes
- Engages candidates in a collaborative experience of staff development and preservice teacher training in Professional Development Schools
- Helps candidates make a positive impact on participant schools and on the students
- Engages and aids candidates in deep reflection, research and problem solving involving teaching and learning
- Expects candidates provide evidence of proficient performance through displays of teaching skills and through documentation of student learning
- Provides candidates with a broad understanding of learning and literacy acquisition and the skills to promote effective learning across curricular areas
- Provides candidates who hold bachelor's degrees in fields other than education with an alternative avenue of initial certification and induction into teaching

Program Entry Requirements

Program entry is a three-step process as described below.

Step I: Applicant Screening

The minimum academic requirements for admission are as listed below.

NOTE: Elementary applicants must submit applications by March 1. Applicants may be accepted upon completion of the admissions requirements.

Academic Requirements:

Bachelor's degree from a regionally accredited institution with a minimum grade of C in each required course. Pass/Fail will be accepted if the institution can assure the passing grade is above a D.

Documented By:

Transcripts from all undergraduate institutions on file with the Office of Graduate Services

Demonstration of Advanced Writing

An advanced writing course or documentation of advanced writing skills

Successful completion of college-level mathematics excluding developmental mathematics

Three courses and a minimum of 9 credit hours

Successful completion of natural science courses

A minimum of 10 credit hours in science that must include one course in biological, one course in physical science and preferably one course in earth science. Additionally, one of the courses submitted must contain a lab.

Successful completion of a literature course

A minimum of 3 credit hours in course

Successful completion of social science courses

A minimum of 9 credit hours in social sciences, including history and psychology

An additional 3 credit hours in any previously stated required area or fine arts or a foreign language.

Additional credits must meet the previously mentioned guidelines as stated.

Minimum undergraduate cumulative GPA of 3.0 for the entire undergraduate record. Students with GPAs between 2.75 and 2.99 may be given provisional admission. Applicants possessing a 2.5 to 2.74 may be granted special permission to begin the program if they pass each section of the Praxis I examination and the Praxis II: Content Knowledge examination. Provisional admission candidates must achieve a minimum 3.0 GPA in the first semester's work to achieve full admission status.

All official transcripts from undergraduate institutions submitted to the Office of Graduate Services

Coordinator:

Department of Educational Professions
USM-Hagerstown
240.527.2736 (MAT Coordinator)
or 240.527.2741 (Adm. Asst.)
kmgriemsmann@frostburg.edu

PROGRAM ENTRY REQUIREMENTS

Passing grade on PRAXIS I:

Before applicants can be provisionally or fully accepted into the program, a passing cumulative score as established by the state of Maryland for PRAXIS I test or qualifying scores on the SAT, ACT or GRE test must be on file in the Office of Graduate Services.

Additional Requirements:

TB test (current to one year). Must be completed during the beginning of the program and prior to entering the schools. Deadline for submission is August 1.

Submission of **fingerprinting and criminal background check information** and the criminal disclosure statement. Applicants must submit the criminal disclosure statement confirming that the candidate is free of convictions that would disqualify him or her from obtaining certification in Maryland as an admissions requirement.

NOTE: Candidate must pass a fingerprinting and criminal background check prior to employment as a teacher.

Documented By:

Submission of test results to the Office of Graduate Services

Submission of test results to the program coordinator

Submission of results to the program coordinator

STEP II: Entry Portfolio Submission

The MAT Screening Committees review applicant portfolios. Applicants must demonstrate in their entry portfolios how they possess intellectual, personal and professional qualities. Applicants must include evidence of the following six attributes in their entry portfolios. The portfolio must contain at least one artifact for each attribute. Possible examples of artifacts are noted. It is preferable that the artifacts show relevance to educational practices and working with students.

Attribute 1: Dedicated Professional Indicators:

- Demonstrates life-long learning
- Exhibits professional dispositions
- Communicates effectively
- Shows commitment to professional obligations
- Exhibits self-knowledge (strengths, weaknesses, interests, learning style)

Attribute 1 may be documented by any of the following artifacts:

- Resumé
- Recommendations that state professional dispositions
- Work projects
- Evidence of reading and professional development
- Self-statements

Attribute 2: Leader (*instructional leader*)**Indicators:**

- Demonstrates ability to work with others
- Promotes active learning/leadership
- Shows ability to analyze, synthesize and apply knowledge
- Demonstrates effective communication (verbal and non-verbal interpersonal skills)
- Uses technology appropriately

Attribute 2 may be documented by any of the following artifacts:

- Examples of long- and short-term planning
- Evidence of problem solving and critical thinking
- Recommendations
- Evidence of leadership roles and commitment to hard work
- Self-statements

Attribute 3: Continuous Assessor Indicators:

- Creates and uses multiple assessment measures
- Uses assessment data for improvement
- Uses technology to collect and interpret data

Attribute 3 may be documented by any of the following artifacts:

- Work experiences that indicate evaluation of others
- Life choices based on assessment of goals
- Self-statement of long-term goals and areas of improvement
- Examples of continuous self-improvement

Attribute 4: Educational Advocate**Indicators:**

- Believes that all students have the right and the ability to learn
- Exhibits enthusiasm for teaching
- Shows commitment to equal quality public education for all students
- Encourages programs that work to ensure safe school, home and community environments for learning
- Demonstrates willingness to work with children with special needs and culturally diverse populations

Attribute 4 may be documented by any of the following artifacts:

- Hobbies, reading and/or interest in promoting education
- Examples of activities that promote life-long learning
- Involvement in organizations that promote learning
- Time spent with children
- Self-statements

Attribute 5: Collaborative Bridge Builder

Indicators:

- Promotes cooperative activities
- Demonstrates ability to build effective partnerships
- Communicates effectively in groups
- Shows objectivity and appreciation of diverse perspectives

Attribute 5 may be documented by any of the following artifacts:

- Examples of community service
- Work-related collaborative activities
- Collaborative life experiences
- Volunteer experiences
- Work projects
- Self-statements

Attribute 6: Reflective Decision-maker

Indicators:

- Views learning as a continuous set of decision-making opportunities
- Exhibits the ability to identify and analyze problems
- Demonstrates effectiveness in self practices/decisions
- Strives for continuous self-improvement
- Encourages thoughtful, productive self-assessment

Attribute 6 may be documented by any of the following artifacts:

- Autobiography
- Educational philosophy statements
- Work/volunteer experiences
- Experiences as a decision maker
- Self-statements

STEP III: In-Person Assessment

Selected applicants will be invited to participate in the in-person assessments.

- Successful presentation of the entrance portfolio and clear articulation of reasons for entering teaching are presented in an entrance interview that shall be conducted by members of the educational community. Interview team members may include FSU faculty, Professional Development School administrators and teachers, county administrators and/or former Master of Arts in Teaching candidates.
- Following the in-person assessment and submission of passing PRAXIS I, SAT, ACT or GRE scores, applicants will receive written notice regarding acceptance into the program through the Office of Graduate Services.
- Applications for the In-Person Assessment will be scheduled by the Program Coordinator and notification will be sent through the Office of Graduate Services or the FSU@USMH administrative assistant.

Program Exit Requirements (Elementary Education)

Program exit and recommendation for certification are contingent upon the following:

- Successful completion of all course work
- Successful completion of all practicum experiences
NOTE: Candidates are required to complete two in-school practicum experiences totaling a minimum of 100 days of supervised and mentored interning. Full-time or part-time teaching employment while enrolled in the MAT program is considered on an individual basis and requires permission from the dean of the College of Education and an official memorandum of understanding between Frostburg State University and the hiring Board of Education or like educational entity.
- Successful completion of the research requirement
- Successful completion of the Exit Portfolio presentation
- Successful attainment and documentation of the Maryland Teacher Technology Standards
- Evidence of having taken the appropriate Praxis II content and pedagogy tests. *Note: Passing scores on applicable content area Praxis II exams are required for licensure by the state of Maryland.*
- Completion of program with a cumulative GPA of 3.0 or higher
- Approval of the MAT Assessment Committee

PROGRAM DESCRIPTION

Professional Education Core	6 credits
Program Course Requirements	31 credits
Practicum Requirement	9 credits
Total	46 credits

Program Description

Professional Education Core: 6 credits

- EDUC 603 Principles and Practices of Research
 EDUC 606 Developmental Theory & Experiential Growth

Program Course Requirements: 31 credits

- EDUC 564 Induction Into the Classroom
 EDUC 661 Mathematics: Curriculum, Instruction & Assessment
 EDUC 662 Science and Health: Curriculum, Instruction & Assessment
 EDUC 663 Management and the Learning Environment
 EDUC 664 Diversity in the Classroom
 EDUC 665 The Arts: Contrast and Connections
 EDUC 666 Social Studies: Curriculum, Instruction & Assessment
 PHEC 604 Human Movement and Physical Activity for the Elementary Classroom
 REED 530 Process and Acquisition of Language and Reading
 REED 531 Literacy Instruction
 REED 532 Reading Materials
 REED 533 Reading Assessment
 SPED 510 Introduction to Special Education

Practicum Requirement: 9 credits

- EDUC 696 Practicum I (3 credits)
 EDUC 697 Practicum II (6 credits)

Total credit hours: 46

Master of Arts in Teaching - Secondary/Pre K-12

Certification subject areas:

- ART
- BIOLOGY
- CHEMISTRY
- EARTH SCIENCE
- ENGLISH
- FRENCH
- MATH
- PHYSICS
- SOCIAL SCIENCE
- SPANISH

Program Purpose

This program is designed to provide qualified individuals with a master's degree and initial certification in the area of Secondary Education (7-12) content specialization or Art (PreK-12) by providing study of the knowledge, skills and dispositions necessary for effective teachers. This program contains extensive field work in Professional Development School settings and anticipates the full-time enrollment of the candidate. This program presumes a particular sequence of certain research-based courses.

Certification

The MAT-S program is intended to lead to an initial full Maryland certification in Secondary Education (7-12) content specialization or Art (PreK-12) content specialization.

Program Locations

Offered at Frostburg and at the University System of Maryland - Hagerstown

Coordinator:

Dr. Marcia Cushall
Department of Educational Professions
301.687.4308
mcushall@frostburg.edu

Program Objectives

- Provides candidates with an integrated, quality and intensive research-driven experience for teacher preparation
- Provides candidates with the knowledge, skills and dispositions of highly effective teachers
- Develops candidates who will demonstrate satisfactory performance on all relevant NCATE, state and constituent professional association program standards for the specialization area and on the College of Education's Conceptual Framework outcomes
- Engages candidates in a collaborative experience of staff development and preservice teacher training in Professional Development Schools
- Helps candidates make a positive impact on participant schools and on the students
- Engages and aids candidates in deep reflection, research and problem solving involving teaching and learning
- Expects candidates provide evidence of proficient performance through displays of teaching skills and through documentation of student learning
- Provides candidates with a broad understanding of learning and literacy acquisition and the skills to promote effective learning across curricular areas
- Provides candidates who hold bachelor's degrees in fields other than education with an alternative avenue of initial certification and induction into teaching

Program Entry Requirements

Program entry is a three-step process as described below.

Step I: Applicant Screening

The minimum academic requirements for admission are as listed below.

NOTE: Application deadline is April 1.

Bachelor's Degree

Applicants must possess a bachelor's degree from a regionally accredited institution in the content area to be pursued for teaching certification that will satisfy the content standards for NCATE and NCATE-constituent professional association programs for the content area. In lieu of the content degree in the area of certification, applicants must have successfully completed the equivalent university core course requirements and any specific state requirements for Maryland teacher certification not addressed in the MAT program as well as meeting NCATE standards and outcomes and Maryland certification requirements as determined by transcript audit by the MAT Secondary/PreK-12 coordinator.

GPA Requirements

Applicants must have a minimum cumulative GPA (grade point average) of 3.0 or higher or possess a prior graduate degree in an appropriate content area. Students with GPAs between 2.75 and 2.99 may be granted provisional admission. Applicants with a cumulative undergraduate GPA of less than 2.75 may be considered on an individual basis for provisional admission. Provisional admission candidates must achieve at least a 3.0 GPA during the first semester in the program to achieve full admission status.

PRAXIS I, SAT, ACT or GRE scores (by May 1)

Applicants must submit a passing cumulative score (as established by the State of Maryland) on the PRAXIS I tests, or a qualifying score on the SAT, ACT or GRE test by May 1.

STEP II: Entry Portfolio Submission*

The MAT Interview panels review applicant portfolios. Applicants must demonstrate in their entry portfolios how they possess intellectual, personal, and professional qualities that will contribute to making them successful teachers. The entrance portfolio consists of a resume, self-statement, reflections on the Conceptual Framework attributes and three professional reference letters.

The Conceptual Framework for the program consists of six attributes:

- Dedicated Professional
- Instructional Leader
- Continuous Assessor
- Educational Advocate
- Collaborative Bridge Builder
- Reflective Decision-maker

PROGRAM ENTRY REQUIREMENTS

Portfolios are submitted to the MAT program coordinator prior to the scheduled interview. The portfolio is used as part of the overall selection process for admission to the MAT.

[If applicants have experience working with students in an educational setting, then the self-statement and reflections on the Conceptual Framework should demonstrate this.]

Information about the Conceptual Framework can be found at www.frostburg.edu/colleges/coe/unit_information/conceptual_framework.html.

Information about Entry Portfolio construction can be found at www.frostburg.edu/dept/educ/grad/mat.html.

STEP III: In-Person Assessment*

Selected applicants will be invited to participate in the In-Person Panel Interviews. Applicants must attend an information session or schedule an appointment with the program coordinator to review the interview process. Applicants will be scheduled for an interview when their applications have been received, transcripts have been received and cleared for prerequisites, and applicants have reviewed the interview process.

There are three parts to the panel interview:

1. Question/response
2. Presentation/lesson
3. Writing sample

Interview panel members may include FSU faculty, Professional Development School administrators and teachers, county administrators, and/or former Master of Arts in Teaching candidates.

Applications for the In-Person Interview and the assessment schedule dates are available in the Office of Graduate Services.

Information about the In-person Interview can be found at www.frostburg.edu/dept/educ/grad/mat.html.

** Portfolio/interview information sessions are scheduled for fall and spring. In these sessions, applicants will receive information and instructions about constructing the portfolio and preparing for the 3-part entrance interview.*

Additional Program Requirements

- All candidates must meet Practicum I Candidacy requirements.
- To continue in the program, candidates must maintain a 3.0 or higher GPA with no grade lower than C and no incomplete grades for each semester.
- Candidates must attain an Acceptable or higher rating on an applicable candidate Dispositions and Responsibilities evaluation for each administration (including remediation process) of the evaluation instrument.

Practicum I Candidacy

Before admission to Practicum I, applicants must meet the following requirements:

- Candidates must submit a passing score (as established by the State of Maryland) on the appropriate PRAXIS II content knowledge test.
- Candidates must complete all prerequisite requirements.
- Candidates must be certified free of TB (current to one year).
- Candidates must submit the criminal disclosure statement confirming that the candidate is free of convictions that would disqualify him/her from obtaining certification in Maryland.

NOTE: Candidates must pass a fingerprinting and criminal background check prior to employment as a teacher. For some school systems, candidates must pass a fingerprinting and criminal background check prior to interning in the schools.

Program Exit Requirements

Program exit and recommendation for certification are contingent upon the following:

- Successful completion of all course work
- Successful completion of all practicum experiences
NOTE: Candidates are required to complete two in-school practicum experiences totaling a minimum of 100 days of supervised and mentored interning. Full-time or part-time teaching employment while enrolled in the MAT program is considered on an individual basis and requires permission from the dean of the College of Education and an official memorandum of understanding between Frostburg State University and the hiring Board of Education or like educational entity.
- Successful completion of the research requirement
- Successful completion of the Exit Portfolio presentation

- Successful attainment and documentation of the Maryland Teacher Technology Standards
- Successful completion of the PDS activities requirement for each practicum.
- Evidence of having taken the appropriate Praxis II content and pedagogy tests. *Note: Passing scores on applicable content area Praxis II exams are required for licensure by the state of Maryland.*
- Completion of program with a cumulative GPA of 3.0 or higher
- Approval of the MAT program coordinator.

Professional Education Core	6 Credits
Program Course Requirements	24-25 Credits
Practicum Requirements	12 Credits
Total	42-43 Credits

Program Description

Professional Education Core (6 credits)

EDUC 603	Principles and Practices of Research	(3 cr.)
EDUC 606	Developmental Theory and Experiential Growth	(3 cr.)

Program Course Requirements (24-25 credits)

REED 617	Teaching Reading in the Content Areas	(3 cr.)
REED 518	Reading and Writing Connections	(3 cr.)
SCED 51x or 520	Content Area Methods	(3-4 cr.)
SCED 510	Secondary Methods and Curriculum	(3 cr.)
EDUC 565	Introduction to Technology for Teaching and Learning in the 21st Century	(1 cr.)
EDUC 663	Management and the Learning Environment	(2 cr.)
SPED 551	Adapting Instruction in Diverse Classrooms	(3 cr.)
EDUC 613	Classroom Assessment	(3 cr.)
EDUC 700	Master's Research Paper or Project	(3 cr.)

Practicum Requirements (12 credits)

SCED 696	Practicum I with Secondary Seminar	(6 cr.)
SCED 697	Practicum II with Secondary Seminar	(6 cr.)

Additional Co-curricular Recommendation

A candidate wishing to teach in the middle school may choose to add EDUC 545 Middle School Curriculum and Methods.

Secondary/Adult Generic Special Education Option

Students accepted and enrolled in the Secondary MAT program are eligible to complete graduate coursework to pursue Secondary/Adult Generic Special Education Endorsement. This endorsement, which is issued by the Maryland State Department of Education, qualifies degree holders to teach Special Education at the Secondary/Adult level.

Additional Secondary/Adult Generic Special Education Option Requirements

Program Course Requirements (6 credits)

SPED 561	Characteristics of Exceptional Children	(3 cr.)
SPED 562	Introduction to the Education of Exceptional Children	(3 cr.)

Practicum Requirements

SCED 696 Practicum I with Secondary Seminar and SCED 697 Practicum II with Secondary Seminar must involve working with special education students.

PRAXIS II Requirements

Candidates need to take the PRAXIS II: Special Education tests required in Maryland for certification. Passing scores are required by MSDE for endorsement

Subject to change pending approval from the Maryland State Department of Education



Master of Business Administration

The FSU MBA Program offers an opportunity to develop and enhance the managerial skills necessary to succeed in organizations—today and tomorrow—whether in the corporate, small business, public or not-for-profit sectors.

In addition to providing a broad foundation across the functional areas (e.g., accounting, finance, marketing, human resources, management), we strive to assist in the development of the following:

- A systems perspective
- The ability to analyze, synthesize, integrate
- An awareness of self and environment
- Commitment to ongoing personal development
- Communication effectiveness
- Creativity/vision/the inclination to initiate
- Collaboration, effectiveness as a team member
- Technological sophistication
- An appreciation of ambiguity, uncertainty, equifinality
- A willingness to embrace and promote change/risk-taking
- An attitude of professionalism

Current MBA students:

To receive an MBA degree from Frostburg State University, you must meet the graduation requirements of the catalog in effect when you first enrolled. As a result of major modifications to the MBA program, it may be beneficial to substitute the requirements listed in the 2010–2012 Graduate Catalog for those that appear in your entry year. To substitute a new set of graduation requirements, you must apply in writing to the director of Graduate Services. Once this election is made, it is irrevocable.

Should 18 months elapse since you registered for a course, you must apply for readmission. You must meet the graduation requirements of the catalog in effect at the time of your readmission.

Coordinator:

Mr. Ron Ross
MBA Graduate Program Coordinator
240.675.4990
rross@frostburg.edu

Who Should Apply?

This program focuses on the needs and requirements of the working adult. It is designed to serve all adults, acknowledging the reality that no matter what type of organization you work for, you must be able to effectively manage resources. The program is structured to support students with no prior academic training in business fields; however, students with prior relevant graduate course work and/or experience can receive credit via transfer or proficiency examination.

Admission Requirements

To be eligible for full program admission, you must have a baccalaureate degree from a regionally accredited college or university and must have taken the GMAT with a minimum score of 400. You may be accepted based on the following formula using your undergraduate grade point average (on a 4.0 scale) and your GMAT score:

$$(GPA \times 200) + GMAT \text{ score} \geq 950$$

or

$$(GPA \text{ on last 60 semester credits} \times 200) + GMAT \text{ score} \geq 1050$$

- You may substitute the Graduate Record Exam (GRE) in place of the GMAT and your scores will be converted to equivalent GMAT scores based on percentile distributions.
- If your undergraduate grade point average is 3.25 or higher (based on a 4.0 scale) and you have a minimum of 2 years of relevant work experience, you may be waived from the GMAT requirement.

If you do not meet the above requirements, you may be provisionally accepted to the MBA program based on the recommendation of the graduate coordinator and the Graduate Policy Committee. Students admitted on a provisional basis will be reviewed after taking 12 credits and must attain a grade of B or better in all courses.

International students must be able to meet the above standards, as well as scoring 79 or better on the TOEFL or 6 or better on the IELTS test.

Program Philosophy

This program embraces the assumption that managers must function within a dynamic environment in which uncertainty and change are givens. Success will be influenced by your capacity to sensitively scan the environment; to assess facets for their relevance; to formulate appropriate, informed and innovative decisions; and to implement actions for maximum effectiveness. The ability to persuasively communicate, founded on self-awareness and relating to others, is integral to this process. We consider cases and class discussion to be excellent vehicles for development of these capabilities. The College of Business faculty members, who bring a combination of “real-world” and academic experience to the classroom, will assist you in developing and enhancing the requisite skills and abilities to manage successfully.

Curricular Focus

You will be exposed to a broad-based, generalist perspective of the organizational environment. This entails development of an understanding of the functional components of organizational activity, but within an integrated context. The course work will provide analytical tools and developmental frameworks, as well as the capacity to think in terms of processes. The course structure will foster development of communications capabilities, a commitment to participation and the ability to perform as an effective team member.

Program Structure

The MBA required core consists of 36 credits (12 required courses of 3 credit hours each). You are eligible to enroll directly in the 36-credit program if you have successfully completed 9 credits in foundation courses (the MBA essentials) or their equivalent as an undergraduate or graduate student. If you do not have the necessary prior course work in business, you will be required to complete up to a total of 45 credits to earn the MBA.

Frostburg's MBA program is offered at the Frostburg campus, at the University System of Maryland-Hagerstown (32 W. Washington St.) and online.

Program of Study (36-45 credits)

MBA Essentials (9 credit hours)

(The Essentials courses are 3 credit hours each. If you have credit for equivalent courses as an undergraduate or graduate student, these courses are not required. At the time of admission, your previous course work will be evaluated and you will receive a letter of acceptance indicating which of these courses you must complete.)

- BUAD 507 Essentials: Accounting and Finance
- BUAD 508 Essentials: Management and Marketing
- BUAD 509 Essentials: Quantitative Analysis

Required MBA Core (36 credit hours)

- MGMT 510 The Leadership Process
- MGMT 512 Management Decision Analysis (Prerequisite: BUAD 509)
- MGMT 542 Organizational Behavior (Prerequisite: BUAD 508)
- MGMT 620 Strategic Human Resource Management (Prerequisite: BUAD 508)
- MGMT 680 Strategic Integration*
- MGMT 690 Strategic Change Management*
- MKTG 640 Marketing Management (Prerequisite: BUAD 508)
- ACCT 540 Financial Accounting (Prerequisite: BUAD 507)
- ACCT 546 Managerial Accounting (Prerequisites: ACCT 540 and BUAD 507)
- BMIS 607 Information Management in Organizations
- ECON 511 Economics for Managers
- FINA 610 Financial Management (Prerequisites: ACCT 540 and BUAD 507)

*MGMT 690 and/or MGMT 680 must be taken in last semester of study.

Course Load and Delivery

You may take one to four courses per semester (the majority take one or two), and though it is possible to complete the program in 1 year attending full time, most students complete the program in 2 to 3 years. This program is designed with the recognition that students will progress at different paces, depending upon the personal and professional demands on their time. Courses can be taken in class, blended (combined in class and online) or fully online. All courses are offered in class and online at least once per year. In class and blended courses are offered both at the Frostburg and Hagerstown locations.

Program Progression

Because all courses will not be offered at each site each semester, you will have to take the courses that are available. Several of the courses have prerequisites (which are listed in the course descriptions). You should consider the prerequisites when planning your program of study. We recommend that, if possible, you take the Essentials courses first and then complete the 500-level courses, with the exception of MGMT 510 for those who are taking four courses a semester. (Those taking a four-course sequence will be required to take MGMT 510 and BMIS 607 in the last semester with MGMT 680 and MGMT 690.)

The Classes

All classes are taught by faculty who possess managerial and academic experience and training. Both locations make equal use of core faculty. The average class size of 15 students facilitates interaction and a personalized experience. The maximum class size will vary from 15 to 25, depending on the nature of the course.

Class Conduct

All classes emphasize interaction between faculty and students and among students. Learning requires involvement; participation is expected. Communication, both verbal and written, will be a central part of your experience. Many of the courses will invoke the use of cases as a vehicle to explore how the concepts discussed might be applied in actual managerial situations. Internet communications and research will also be utilized.

Transfer/Proficiency Credit

If you have successfully completed (grade of B or better) graduate courses at another institution, you may apply for credit for up to three courses in this program. If, upon faculty assessment, they are deemed essentially comparable to courses in this program, you will be awarded credit toward completion of your degree.

You also have the option to request a proficiency exam in certain courses, based on your prior training and experience. You may earn credit for a maximum of four courses in this manner. Proficiency examinations may be taken only once per course. In the event "proficiency by examination" is not granted, you are expected to enroll in the course as soon as possible.

Administrative Features

Because most students are busy professionals, all administrative features of the program have been simplified:

- Other than the requirement for an undergraduate degree, there are no requirements that cannot be satisfied within the program offerings at the Frostburg campus, USM Hagerstown site or online.
- All registration activities can be conducted through FSU's PAWS online registration system, by mail or by phone.
- Contact with the graduate program coordinator, instructors and administrative support may be accomplished via phone or e-mail.
- Book ordering can also be conducted by mail, phone or Internet.
- Computer labs are available at both the Frostburg and Hagerstown locations.
- All students are provided access (from personal PCs or program computer labs) to the University's online research resources (including access to 16,000 journals, as well as the ability to download and print out full-text copy of articles).

Combined BS in Accounting/MBA

- MBA courses for the combined BS/MBA option may be completed in Frostburg, in Hagerstown at the USMH site or online.

Coordinator:

Ms. Sharon L. Robinson
Chair, Department of Accounting
301.687.4388
srobinson@frostburg.edu

A 150-hour combined BS/MBA program enables eligible students to complete Frostburg State University's BS in Accounting and MBA degree programs with 150 hours of academic credit. Separate pursuit of these degrees would require a minimum of 156 hours of course work. All CPA exam candidates in many states including Maryland are required to complete 150 hours of academic credit. Completion of this combined BS/MBA program will meet all educational requirements for CPA exam candidacy in many states including Maryland. This program is available to students that have graduated or will be graduating from FSU with a bachelor's degree in accounting. Current undergraduate students should apply in the final semester of their senior year by March 15 for fall and Oct. 15 for spring. Applications should be submitted to the Office of Graduate Services.

Eligibility requirements for the combined BS/MBA

- a) Declared accounting major at FSU, or FSU accounting graduate
- b) A minimum score of 400 on the GMAT [GRE can be substituted for GMAT and scores will be converted to equivalent GMAT scores based on percentile distributions. GMAT/GRE can be waived if undergraduate GPA is 3.25 or higher (based on 4.0 scale) combined with a minimum of 2 years of relevant work experience.]
- c) Cumulative and major GPA of 2.5 or better at the time of application
- d) Application for admission to the 150-hour program approved by the Department of Accounting

Summary of Requirements for Combined BS/MBA Option

Undergraduate Requirements for BS in Accounting

1. Complete all requirements for baccalaureate degree in accounting.
See the FSU Undergraduate Catalog.
2. Complete the following additional MBA courses (30 hours):

MGMT	510	Leadership Process
MGMT	512	Management Decision Analysis
MGMT	542	Organizational Behavior
MGMT	620	Strategic Human Resource Management
MGMT	680	Strategic Integration
MGMT	690	Strategic Change Management
MKTG	640	Marketing Management
BMIS	607	Information Management in Organizations
ECON	511	Economics for Managers
FINA	610	Financial Management

Master of Business Administration/ MS in Nursing Administration

Coordinator:

Mr. Ron Ross
MBA Graduate Program Coordinator
240.675.4990
rross@frostburg.edu

Program Overview

This program is run jointly with the University of Maryland-Baltimore, in which qualifying students can earn an MS in Nursing Administration from UMB and an MBA from FSU. Applicants must meet the current admissions criteria both for the FSU MBA and the UMB MS programs. Those awarded the degree must complete the MS Nursing Administration program in accordance with the UMB catalog, and complete 36 hours in the FSU MBA program, with no GMAT requirement. Nursing administration courses will be offered by UMB at its sites for distance education in Western Maryland, while MBA courses will be taught at the Frostburg and at the University System of Maryland - Hagerstown Center sites.

Entrance Requirements for MS in Nursing Administration

Students wishing to enter the UMB program for an MS in Nursing Administration must take the Graduate Record Exam (GRE). Other entrance requirements include:

- Baccalaureate degree with an upper division nursing major from a National League of Nurses-accredited program
- RN licensure
- Undergraduate grade point average of at least 3.0
- Completion of course in elementary statistics or nursing research
- Two professional references
- Official scores on aptitude portion of GRE
- Professional resumé

Program Requirements (36 credit hours)

Students who are eligible to enroll in this joint program already will have been accepted into the UM-Baltimore program for an MS in Nursing Administration. Individuals who meet the entrance requirements for the UMB program are automatically accepted into the FSU MBA program, and, therefore, do not have to take the GMAT. To gain the FSU MBA, they must finish the following 36 credit hours:

ESSENTIALS (3 credits each)

BUAD 507 Essentials: Accounting and Finance
BUAD 508 Essentials: Management and Marketing
BUAD 509 Essentials: Quantitative Analysis

CORE (3 credits each)

ACCT 540 Financial Accounting
ACCT 546 Managerial Accounting
ECON 511 Economics for Managers
FINA 610 Financial Management
MGMT 512 Management Decision Analysis
MGMT 620 Strategic Human Resource Management
MGMT 680 Strategic Integration
MGMT 690 Strategic Change Management
MKTG 640 Marketing Management

Concentrations in:

- ADMINISTRATION & SUPERVISION
- CURRICULUM & INSTRUCTION
ELEMENTARY/SECONDARY
EDUCATIONAL TECHNOLOGY
- INTERDISCIPLINARY PROGRAM
- READING
- SCHOOL COUNSELING
- SPECIAL EDUCATION

Certificate in:

- EDUCATIONAL TECHNOLOGY

- FSU's programs are accredited by the state of Maryland under its Redesign for Teacher Education, recognized nationally by and in compliance with 14 professional content associations and by the National Council for Accreditation of Teacher Education under the new 2000 performance standards.

Program Outcomes

Students who have successfully completed an M.Ed. program will have demonstrated:

- An understanding of the mission and function of education in a diverse, complex, society
- Attainment of skills needed for professional analysis, problem-solving and reflection
- Attainment of advanced knowledge of physical, cognitive, cultural and emotional development as related to the learning process
- Ability to conduct rigorous self-evaluation of professional and ethical behavior, practice and progress
- Attainment of extensive skills and knowledge in an area of specialization
- Ability to incorporate current research and technology within a specialization and related areas

Requirements and Regulations for All M.Ed. Students

Special Admission Criteria

Graduate admission is based on an undergraduate cumulative GPA from a regionally accredited institution, teacher certification or eligibility and submission of scores from the Praxis II, the National Teacher Examination or equivalent state certification testing in your field(s) of initial teacher certification, with the exception of School Counseling (*see below*).

To warrant full graduate admission to the M.Ed. degree programs, but not to specific concentrations that possess additional requirements, all applicants must have earned a cumulative GPA of at least 3.0, completed a bachelor's degree from a regionally accredited institution and submit scores from NTE, Praxis II, GRE (Graduate Record Examination) or MAT (Miller Analogy Test). Provisional admission may be granted for students who have a cumulative undergraduate GPA of 2.75–2.99. Applicants with a cumulative undergraduate GPA of less than 2.75 may be considered individually for provisional status by the College of Education Unit Monitoring Committee. (*See other additional requirements and standards for admission in the appropriate sections for each program.*)

In addition, all applicants, except for School Counseling and Interdisciplinary Studies, must be eligible for, or hold, a teaching certificate. Admission criteria for the Master of Arts in Teaching may be found in the appropriate section of this catalog.

Applicants holding an advanced professional certificate prior to 1987 will not be required to take additional external measures for admission to graduate programs in the Educational Professions Department with the exception of those not meeting the GPA requirements for School Counseling.

Credentials of international students applying for admission to graduate programs in the Educational Professions Department will be evaluated on a case-by-case basis.

Study Plan

The study plan is a document required by specific areas of concentration within the Master of Education program. You must interview with the graduate program coordinator to devise a study plan whereby your educational goals and degree requirements can be achieved. This interview must occur before your initial registration for classes. The study plan is a list of courses that you must satisfactorily complete to meet degree requirements. Once the study plan is approved by your advisor and program coordinator, any subsequent changes must be approved by the aforementioned.

The following concentrations require the use of approved study plans:

- Administration & Supervision
- Reading
- Curriculum and Instruction
- School Counseling
- Interdisciplinary
- Special Education

Basic Degree Requirements

In addition to the basic requirements for a master's degree found in the general regulations section of this catalog, you must meet the following requirements for the M.Ed. degree:

1. Your entire degree program of study must not be less than 33 credit hours with a minimum of 18 credit hours of the entire program of study taken in 600-level courses, 9 credits of which must be in the area of concentration.
2. You must successfully complete a research paper, project or thesis or you may substitute six credits of graduate course work approved by your advisor. The Master's Committee Decision form must be submitted to the graduate program coordinator by the committee chair no later than the last day of the final examination period for the semester in which you expect to receive the degree.

Degree Candidacy

Frostburg State University regards degree candidacy as an important element of the Master of Education degree program. The purpose of degree candidacy is to provide a formal mechanism as part of your program of study whereby your academic performance and progress toward completion of degree requirements are evaluated. This evaluation normally occurs at the midpoint of your degree program.

Conditions

You must apply for degree candidacy. Failure to apply for degree candidacy may jeopardize your registration for further courses. To apply for degree candidacy, you must:

1. Have completed no less than 15 credit hours or more than 18 credit hours taken as approved graduate credit from Frostburg State University
2. Have a cumulative GPA of at least 3.0 in the graduate courses taken at Frostburg State University
3. Have completed the Professional Education Core (9 credits) as part of your first 18 credit hours of graduate credit taken as approved graduate credit from Frostburg State University or transferred
4. Have completed at least 6 of the 15-18 credits taken at Frostburg State University in your area of concentration
5. Have completed all course deficiencies if any are listed on your study plan
6. Demonstrate academic and professional qualities to the satisfaction of the members of your Master's Committee
7. Meet any additional requirements as specified by the area of concentration

Application Process for Degree Candidacy

1. At the appropriate point in time in your degree program (see Degree Candidacy conditions), you should secure an Application for Degree Candidacy from your graduate program coordinator.
2. The Application for Degree Candidacy is to be completed and returned to the graduate program coordinator.
3. The program faculty and the program coordinator will evaluate your performance through your first 15-18 credit hours of study and make a recommendation regarding your candidacy for the degree.
4. You will receive formal notification of the decision from the director of Graduate Services. You may appeal the decision to the Graduate Leadership Team in the Educational Professions Department.
5. You must have completed all course deficiencies if any are indicated in your letter of admission.
6. You must demonstrate academic and professional qualities to the satisfaction of the program faculty.
7. You must meet any additional requirements as specified by the area of concentration.

Second Master's Degree

You may earn a second M.Ed. degree in another area of concentration. A maximum of 9 credit hours in professional education from the first degree may be applied toward the second degree.

Phi Delta Kappa

Phi Delta Kappa is an international professional fraternity for men and women in education. The membership is composed of recognized leaders in the profession and graduate students with leadership potential. Members are from a wide range of educational endeavors. They include classroom teachers, administrators, college and university professors and other educational specialists. The Chapter of Phi Delta Kappa serves Frostburg State University and the tri-state surrounding the Cumberland-Frostburg area. The chapter actively promotes the interests and education of professional educators. For more information about Phi Delta Kappa, see the chair of the Department of Educational Professions.

Administration & Supervision

Levels of Specialization

- ELEMENTARY
- SECONDARY
- K-12

Note: All are 3-credit courses.

Professional Education Core	9 credits
Area of Concentration	18 credits
Focus Area	6 credits minimum
Capstone	6 credits
Total	39-42 credits

Program Purposes

This program is designed for certified teachers to prepare for entry-level positions in administration and supervision by providing knowledge, theories, techniques, skills and concepts appropriate to the field through lecture, simulation, case study, role playing, inbasket activities and other appropriate methods.

Certification

This program is intended to lead to advanced certification. Students may have additional requirements to meet, such as teaching experience, testing or specific courses depending on their individual states.

Coordinator:

Dr. William Childs
Department of Educational
Professions
301.687.4216
wchilds@frostburg.edu

Program Objectives

- To provide background in major content areas of administration, including general administration, curriculum instruction, finance and business operations, school-community relations, personnel services, staff development, pupil services, facilities operation, organization and structure, and human relations
- To provide background in theories appropriate to the field and to require student application
- To provide opportunities for students to practice the administrative/supervisory skills through simulation, role playing, inbasket and group activities, as well as field experiences
- To provide knowledge, application, analysis and reflection of current practice in the field
- To provide knowledge, recognition and ability to work with individual differences and capabilities of children and adults
- To provide a capstone experience that integrates the program's content and skills with on-site activities and assessment

Special Admission Criteria

Applicants to this program must submit evidence of professional experience in schools. Appeals to this policy may be made in writing to the coordinator of the Administration/Supervision program, but in no case may a person who is not a certified teacher or eligible for certification be admitted.

K-12 (Art, Music, Physical Education) majors are eligible for admission to the Secondary Administration and Supervision program.

K-12 (Art, Music, Physical Education) majors applying to the Elementary Administration and Supervision program must complete a minimum of 9 credit hours of elementary education methods courses prior to acceptance, including a course in the methods of teaching reading and methods courses in two of the following areas: mathematics, science, language arts and social studies.

Students applying for the K-12 option must have the appropriate certification and teaching experience that will permit them to have K-12 administrative/supervisory certification in the state in which they work.

Program Description (39-42 credits)

Professional Education Core (9 credits)

EDUC 603	Principles and Practices of Research
EDUC 606	Developmental Theory and Experiential Growth
EDUC 640	Curriculum Development

Capstone (6 credits required)

EDAD 693	Practicum I
EDAD 694	Practicum II

Total credit hours: 39-42

Area of Concentration (18 credits)

EDAD 628	School Law
EDAD 642	Organization and Administration of Public Schools
EDAD 640	Accountability & Data-Driven Decision Making in Public Education
EDAD 644	Public School Finance
EDSU 643	Foundations of Supervision
EDUC 627	Human Relations in Education

Elementary Focus (6-credit minimum)

CUIN 609	Elementary School Curriculum
EDAD 611	Administration of the Elementary School

Secondary Focus (6-credit minimum)

CUIN 660	Secondary School Curriculum
EDAD 612	Administration in the Secondary School

Special Degree Requirements

1. Study Plan

A study plan is required for all students in Administration and Supervision. It must be completed and approved prior to registering for the first course. Once approved, any changes require the permission of the program coordinator.

2. Admission to Candidacy

Admission to candidacy occurs when the student has completed a minimum of 15 credits and a maximum of 18 credits. Students must have completed the three professional core courses (EDUC 603, 606 and 640) as part of this admission process. Six credits within the program concentration must have also been completed. A cumulative GPA of 3.0 is required as well as the approval of the program coordinator. Transfer courses are not counted toward the 15-18 credits unless they are accepted as equivalent courses, and then the grades are not calculated in the GPA. The program coordinator has the right to require that a student remediate deficiencies even if that requires extra courses or to require that a student be disenrolled from the program based on the student's aptitude and professional growth and potential. If disenrolled, the student has the right of appeal to the Educational Professions Graduate Leadership Team. If the appeal is denied, the student may re-apply to the program after 1 year.

Curriculum & Instruction

Levels of Specialization

- ELEMENTARY EDUCATION
- SECONDARY EDUCATION
- EDUCATIONAL TECHNOLOGY

Note: All are 3-credit courses.

Professional Education Core	9 credits
Curriculum and Instruction Core	9 credits
Level of Specialization	12-15 credits
Capstone	6 credits
Total	36-39 credits

Certificate

- EDUCATIONAL TECHNOLOGY

Program Purposes

This program is designed for the classroom teacher who may also have some curricular and/or instructional leadership responsibilities. Examples of such teacher positions would include department heads, pod leaders and grade-level heads. Further, the program is intended to prepare classroom teachers for additional teaching responsibilities by increasing their curricular and instructional skills, while adding to their content background.

Certification

This program does not lead to advanced certification. The Curriculum and Instruction (C&I) program provides education professionals from varying backgrounds the opportunity for advanced study.

As such, the program is organized around the National Board for Professional Teaching Standards (NBPTS) Core Propositions.

Students who apply to and complete the M.Ed. degree in the C&I program with the intent of applying for National Board certification will be required to take the CUIN 605: National Board for Professional Teaching Standards Pre-Candidacy, and the EDUC 700: Capstone courses, and produce their NBPTS portfolio as requisites for their certification application.

Coordinator:

Dr. Doris Santamaria-Makang
Department of Educational Professions
301.687.7018
dsantamariamakang@frostburg.edu

Program Objectives

1. To enhance the students' knowledge and ability to develop valid curricular objectives and performance criteria
2. To advance students' knowledge and training in building learning experiences designed to achieve curriculum objectives
3. To develop knowledge and understanding of the importance of assessing the outcomes of learning and making instructional decisions based on these outcomes
4. To provide knowledge and strategies for selecting appropriate curriculum materials and instructional approaches and utilize effective planning for instruction based upon acquired data
5. To provide academic and experiential training in the design of a logical, functional system of curriculum evaluation
6. To provide an understanding of research in the classroom, and develop and implement techniques of experimentation
7. To develop an awareness of research and the ability to read and use research in the students' specialty and related fields
8. To provide the intellectual tools and abilities to analyze contemporary educational criticism and relate such criticism to curriculum development practices
9. To develop the knowledge, skills and dispositions needed to enable students to assume the role of change agent
10. To build the students' capacity to provide instructional leadership for other teachers for whom they are professionally responsible
11. To train students with the knowledge, skills and attitudes to serve as a resource person and/or conduct in-service programs in the areas of curriculum and instruction
12. To enable and empower program graduates to assume leadership in curriculum and instruction reform initiatives at school and district levels

Special Admission Criteria

In addition to Frostburg State University's general admission requirements, applicants to the M.Ed. in Curriculum and Instruction program must comply with the following requirements:

- Applicants must be certified teachers or eligible for certification.
- Applicants must have earned a cumulative GPA of at least 3.0 on a 4.0 scale in their undergraduate programs.
- Applicants must have completed a bachelor's degree from a regionally accredited institution.
- Applicants must have passed the Praxis II examinations. An official copy of the Praxis II scores must be submitted with the application.

Interview: Applicants are required to have a pre-admission interview with the graduate program coordinator, or designee.

A component of the interview includes the completion of the Curriculum and Instruction Self-Reflection Survey. The survey is based on the NBPTS Core Propositions, and is intended to provide a personal profile of academic achievement and professional growth of the candidate at the time he or she enters the program. The same survey will be administered at the completion of the capstone requirement to examine the candidate's professional and academic growth, and to provide information about the effectiveness of the program's operation.

Program Description

The program offers an M.Ed. degree in curriculum and instruction and a graduate certificate in educational technology. (*The Graduate Certificate program in Educational Technology is described in the next section of this catalog.*)

Students in the M.Ed. degree program can choose an area of concentration from three levels of specialization: Elementary Education, Secondary Education and Educational Technology. Based on the level of specialization, students must complete a minimum of 36-39 credits.

The M.Ed. program requires 18 credits in the Professional Education Core and the Curriculum and Instruction Core courses. Depending upon the emphasis selected, the next 18-21 credits are selected from the courses listed under the appropriate level of specialization, including the capstone courses.

Professional Education Core (9 credits)

- EDUC 603 Principles and Practices of Research
 EDUC 606 Developmental Theory and Experiential Growth
 EDUC 640 Curriculum Development

Curriculum and Instruction Core (9 credits)

- CUIN 639 Instructional Systems Design
 CUIN 649 Curriculum Evaluation
and 3 credits from the following curriculum courses:
 CUIN 608 Middle School Curriculum
 CUIN 609 Elementary School Curriculum
 CUIN 623 Foundations of Early Childhood Education
 CUIN 660 Secondary School Curriculum

Level of Specialization and Capstone (18-21 credits)**1. Elementary Education (15 credits)**

At least 9 credits selected from the following courses:

- REED 610 Foundations of Teaching Reading
 CUIN 614 Elementary School Math Programs
 CUIN 615 Elementary School Science Programs
 CUIN 618 Elementary School Language Arts Programs
 CUIN 621 Elementary School Social Studies Programs

Electives (6 credits)

Courses selected with advisor's approval.

Capstone (6 credits)

At least 3 credit hours must be selected from the following courses:

- EDUC 700 Research Paper or Project
 EDUC 710 Thesis

Three hours of additional course work may be selected with advisor's approval.

2. Secondary Education (15 credits)

Students must take 15 graduate credit hours in a discipline consistent with their area of teaching responsibility, plus the capstone.

Capstone (6 credits)

At least 3 credit hours must be selected from the following courses:

- EDUC 700 Research Paper or Project
 EDUC 710 Thesis

Three hours of additional course work may be selected with advisor's approval.

3. Educational Technology (12 credits)

- EDUC 632 Use of Telecurricular Instruction
 EDUC 633 Multimedia Design and Publication for Instruction
 EDUC 635 Evaluation and Integration of Technology in Instruction
 EDUC 645 Advanced Instructional Design

Capstone: (6 credits)

At least 3 credit hours must be selected from the following courses:

- EDUC 700 Research Paper or Project*
 EDUC 710 Thesis

*Three credit hours of additional course work may be selected from the following courses:***

- EDUC 530 Technology Specialist in Education
 EDUC 546 Using Databases for Critical Thinking
 EDUC 548 Using Spreadsheets in Mathematics Education
 EDUC 626 Technology Applications in Early Childhood Education
 COSC 530 Computer Education
 COSC 591 Seminar in Computer Science
 COSC 600 Computer Programming Concepts

Special topics courses (590) or individual problems courses (599) (with advisor's approval)

**Students must successfully design a research project related to their area of specialization in a K-16 classroom by the end of their program. Students are encouraged to design and conduct an action research project (that includes impact on student learning) in fulfillment of this requirement.*

***Candidates for the graduate certificate in educational technology should select EDUC 530 Technology Specialist in Education as the 3 credit hours of additional course work.*

4. Other Areas of Specialization

Other specializations may be implemented upon the request of at least 10 potential students, the subsequent approval of the Curriculum and Instruction Committee and the reporting of the area of specialization to the Department of Educational Professions.

Special Degree Requirements

Study Plan

A study plan is required for all students. It is required to be completed at the beginning of the program at the interview with the coordinator. This is expected to occur prior to registering for the first course. Once approved, changes require the permission of the advisor and program coordinator.

Special Provision: If the student has not had extensive direct teaching experience within the last 5 years prior to applying to the program, the student will be required to complete a graduate course that includes a field-based component in the student's area of concentration. Respective supervision of a mentor teacher and a University supervisor will be assigned by the program coordinator.

Admission to Candidacy

For admission to candidacy, students must comply with the following requisites:

- Students must have completed a minimum of 15 credits and a maximum of 18 credits.
- Transfer courses are not counted toward the 15-18 credits unless they are accepted as equivalent courses. If so, the grades are not calculated in the GPA.
- Students must have completed the Professional Education Core and the Curriculum and Instruction Core courses, or part of this professional sequence.
- Students must have completed 6 credits within the program concentration.
- Students must have reached and maintained a GPA of 3.0
- The student's application to candidacy must have the approval of the advisor and two other faculty members who have taught the student.
- The program coordinator has the right to require that a student remediate deficiencies even if that requires extra courses, or to require that a student be disenrolled from the program based on the student's aptitude and professional growth and potential. If disenrolled, the student has the right of appeal to the Educational Professions Graduate Leadership Team. If the appeal is denied, the student may reapply to the program after 1 year.

Electronic Portfolio

All students must successfully complete and present a programmatic electronic portfolio, designed and organized according to the NBPTS core principles, by the end of their program.

Program Regulations

To obtain the M.Ed. degree in Curriculum and Instruction, students must observe the following regulations:

- Students must be enrolled in at least one graduate course (3 credit hours) within a period of 18 months to remain in good academic standing status.
- When/if the student intends to be absent from the program for a period longer than 18 months, students must formally submit a request for a program extension, and be approved by the program coordinator and the Graduate Services Office.
- When not enrolled in the program for a period of 18 months, students must re-apply for acceptance into the program. If approved, the student's study plan will be modified according to the current graduate catalog.
- Students must complete all degree requirements within the time limitations established by Frostburg State University, or submit a request for program extension, if needed.

Graduate Certificate Program in Educational Technology

The Graduate Certificate Program in Educational Technology is a professional certificate designed for K-12 school personnel seeking advanced study in the link between learning and technology who may or may not be interested in pursuing a full master's program. The curriculum includes theoretical and practical experiences for using technology to facilitate teaching and improve student learning. The certificate program promotes continuing professional development for teachers and educational leaders. Note: The certificate does not lead to teacher certification in technology.

Coordinator:

Dr. Marcia B. Cushall
Department of Educational Professions
301.687.4308
mcushall@frostburg.edu

Program Objectives

Students successfully completing this program will:

- Demonstrate an understanding of the role of the technology specialist
- Demonstrate an understanding of the social, ethical, legal, human and practical issues surrounding the use of technology in PreK-12 schools and a disposition to apply that understanding in practice
- Demonstrate the ability to apply advanced instructional systems design principles to the planning and design of effective learning environments and experiences supported by technology that maximize student learning
- Demonstrate an understanding of the impact of telecurricular instruction on teaching and learning and the ability to apply that understanding in practice
- Demonstrate the ability to apply technology to facilitate a variety of effective assessment and evaluation strategies
- Demonstrate the ability to use technology to enhance professional practice
- Demonstrate a disposition for continual learning and professional growth in the use of technology to promote learning

Candidates seeking the graduate certificate in educational technology at Frostburg State University complete an approved program of study of 15 semester hours of graduate credit with a cumulative average of 3.0 or higher with no grade lower than C and no more than 6 credit hours of C in their program.

Program Description (15 credits)

Note: All are 3-credit courses. Students are expected to take certificate courses in the sequence prescribed by prerequisites.

Required Courses (15 credits)

EDUC 530 Technology Specialist in Education
EDUC 632 Use of Telecurricular Instruction
EDUC 633 Multimedia Design and Publication for Instruction
EDUC 635 Evaluation and Integration of Technology in Instruction
EDUC 645 Advanced Instructional Design

Total credit hours: 15

Admission Criteria

Applicants for the Graduate Certificate program in Educational Technology must complete the admission requirements for graduate studies at Frostburg State University. *Prerequisite for initial course work: applicant must have a valid Frostburg e-mail account and a Frostburg student Web page account.*

Special Admission Criteria

Applicants must have a bachelor's or higher degree in education or a related field, hold a teaching certificate or be eligible for certification and successfully complete EDUC 454/554 Microcomputer Applications in Education or submit a portfolio demonstrating competency in equivalent skills. Applicants must complete an application and study plan for the certificate program.

Exit Requirement

All students must successfully complete and present an electronic portfolio of work addressing the ISTE Technology Standards for Teachers.

NOTE: Candidates enrolled in the C&I Master's Degree program can take all these courses and EDUC 700 or EDUC 710 to fulfill the educational technology track requirements for the C&I program.

Interdisciplinary Program

Program Purposes

The individualized Interdisciplinary Master of Education Degree program is designed for those students who have specific needs not addressed in existing areas of concentration. The interdisciplinary approach allows students to tailor a program specific to their personal and professional goals.

Certification

This program is not intended to lead to initial certification or specialized advanced certification.

Note: All are 3-credit courses.

Professional Education Core	9 credits
Area of Specialization No. 1	12 credit minimum
Area of Specialization No. 2	9 credit minimum
Capstone	3-6 credits
Total	33-36 credits

Program Objectives

1. Read and use research in areas of specialty and related fields
2. Develop knowledge in two separate fields that can be linked for personal and professional reasons
3. Relate human growth and development to areas of specialty
4. Analyze and practice contemporary curriculum development

Program Description

The student may develop an individualized, interdisciplinary program of study through the cooperation of a least two departments with courses approved for graduate credit. Approval of the study plan is required by the chairs of the departments involved and the chair of the Department of Educational Professions. The study plan (available in the Office of Graduate Services) is the means by which your interdisciplinary degree program is documented and routed for required approvals. Upon completion of the study plan form with the necessary signatures, it must be submitted to the Office of Graduate Services.

Teacher certification is not an admission requirement for this program, and initial teacher certification is not a goal of this program.

Special Admissions Criteria

Applicants to this program must meet initially with the Interdisciplinary program coordinator and then the coordinators of the two departments that are to be part of the individualized Interdisciplinary program. A study plan with signatures from coordinators from both areas and the coordinator's signature are required.

Program Description

Professional Education Core (9 credits)

EDUC 603 Principles and Practices of Research
EDUC 606 Developmental Theory and Experiential Growth
EDUC 640 Curriculum Development

Capstone (3-6 credits)

EDUC 700 Research Paper or Project, or 6-credit option with coordinator's approval

Total credit hours: 33-36

Interdisciplinary Content Areas (21 credits)

Courses are selected with the department chair/program coordinator's approval.

Special Degree Requirements

1. Study Plan

A study plan is required for all students in interdisciplinary studies. It is required to be completed at the beginning of the program at the interview with the coordinator. This is expected to occur prior to registering for the first course. Once approved, changes require the permission of the advisor and program coordinator.

2. Admission to Candidacy

Admission to candidacy occurs when the student has completed a minimum of 15 credits and a maximum of 18 credits. Students have completed the three Professional Education Core courses (EDUC 603, 606, 640) or part of their admission process. Six credits within the program concentration must have been completed. A cumulative GPA of 3.0 is required, as well as the approval of the advisor and two other faculty members who have taught the student. Transfer courses are not counted toward the 15-18 credits unless they are accepted as equivalent courses, and then the grades are not calculated in the GPA. The advisor and the program coordinator have the right to require that a student remediate deficiencies, even if that requires extra courses, or to require that a student be disenrolled from the program based on the student's aptitude and professional growth and potential. The student has the right to appeal to the Educational Professions Graduate Leadership Team and may, if disenrolled, re-apply to the program after one year.

Coordinator:

Dr. Thomas Palardy
Department of Educational Professions
301.687.3095
tpalardy@frostburg.edu

Reading

Levels of Specialization

- READING TEACHER
- READING SPECIALIST
- LITERARY COACH

Program Purposes

This program is designed for certified teachers to prepare for entry-level positions in reading by providing knowledge, theories, techniques, skills and strategies appropriate to reading instruction and assessment in a variety of academic settings where graduates exhibit leadership, scholarship and a commitment to professional development.

Certification

This program is intended to lead to advanced certification.

Coordinator:

Dr. Roger Dow
Department of Educational Professions
301.687.4431
rdow@frostburg.edu

Professional Education Core	9 credits
Reading Core	21 credits
Capstone	3 credits
Electives or Thesis	6 credits
Total	39 credits

Program Objectives

1. To promote learning by providing many paths for the candidate to construct knowledge about reading.
2. To integrate learning so that topics are connected across the program components, assuring competence as a reading professional.
3. To encourage candidates to apply learning through course experiences involving students, colleagues and peers.
4. To require candidates to engage in action, analysis and reflection of program areas of knowledge and skills and dispositions through core program components and individual classes.
5. To integrate the International Reading Association Standards for Reading Professionals throughout all program components.
6. To promote scholarship, leadership and service through development of a portfolio and completion of an action research project.

Special Admission Criteria

Applicants to this program must submit evidence of professional experience in schools. Appeals to this policy may be made in writing to the coordinator of the Reading program, but in no case may a person who is not a certified teacher or eligible for certification be admitted.

Program Description (39 credits)

Professional Education Core (9 credits)

EDUC 603	Principles and Practices of Research
EDUC 606	Development Theory and Experiential Growth
EDUC 640	Curriculum Development

Reading Core (21 credits)

REED 540	Children's Literature
REED 610	Foundations of Teaching Reading
REED 617	Teaching Reading in the Content Areas
REED 620	Diagnosis and Correction of Reading Difficulties
REED 637	Organizing and Administering the Reading Program
REED 695	Reading Clinic (6 credits)

Capstone (3 credits)

REED 638	Reading Capstone
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Electives or thesis (6 credits)

EDUC 710 Thesis or 6-credit option with advisor approval
(A list of suggested electives is available from the program coordinator.)

Total: 39 credit hours

Special Degree Requirements

1. Study Plan

All students must complete a plan of study prior to taking their first course or during their first semester of graduate study. This plan must be developed with advice from the graduate reading coordinator or the assigned advisor.

2. Admission to Candidacy

All students must apply for admission to candidacy through their graduate advisor. A candidacy form will be completed and filed with the advisor and a form will be filed with the Graduate Office. Admission to candidacy occurs when the student has completed a minimum of 15 credits. Students must have completed the three professional education core courses (EDUC 603, 606, 640) as part of this admission process and 6 credits within the program concentration. A cumulative GPA of 3.0 is required as well as the approval of the advisor and two other faculty members who have taught the student. Transfer courses are not counted toward the 15-18 credits unless they are accepted as equivalent courses, and then the grades are not calculated in the GPA. The advisor and the program coordinator have the right to require that a student remediate deficiencies, even if that requires extra courses or to require that a student be disenrolled from the program based on the student's aptitude and professional growth and potential. The student has the right to appeal to the Educational Professions Graduate Leadership Team and, if disenrolled, may reapply to the program after one year.

3. Praxis II Reading Specialist Assessment

Graduates of the M.Ed. Reading program would be required to take the Praxis II Reading Specialist Assessment to graduate from the program. Candidates would be encouraged to take this assessment during their last semester. Official scores must be submitted to Frostburg State University before the graduation date. International students would be exempt from this graduation requirement.

4. Portfolio

All students must complete a program portfolio to represent learning across the program. This portfolio will be organized around the five standards for reading professionals, as stated by the International Reading Association. Each section must contain a rational statement and program materials as evidence that the current IRA standards for reading specialist/literacy coach candidates have been

met. Candidates will present their portfolio for evaluation by the graduate reading faculty and other members of the educational community.

5. Reading Program Assessment

During the first semester in the program, candidates must complete a reading program assessment as a pre-test measure. After completing the coursework and before being allowed to enroll in the program capstone experience, candidates would be required to complete this assessment as a post-test measure. In this second instance, they must receive a passing score (85 percent). Candidates would be allowed to retake the assessment until a passing score is reached. In both situations, this assessment would be created and administered by the reading faculty.

6. Action Research Project

As part of the reading capstone experience, candidates will complete a schoolwide action research project focused on literacy. The project will be presented as part of a University research symposium and will be shared with the candidate's school community.

School Counseling

Level of Specialization

- K-12

Program Purposes

The Master of Education in School Counseling degree program is intended for individuals who plan a professional career in school counseling. In this program, the school counselor is viewed as a professional who provides services to all students in a K-12 school setting. In serving this population, the school counselor seeks to facilitate the learning and positive development of all students, and provides preventative, remedial and, at times, crisis intervention services. Thus, at the conclusion of this graduate program, candidates possess the requisite knowledge, skills and dispositions that will allow them to function effectively in the holistic development of students in the K-12 setting. These competencies are based upon the six-unit outcomes that form the foundation for the conceptual framework of the College of Education.

These outcomes include becoming a dedicated professional, instructional leader, continuous assessor, educational advocate, collaborative bridge-builder and reflective decision-maker.

A background in teacher education is NOT a requirement for admission to the School Counseling program. Students who successfully complete the program will be eligible for certification as a K-12 school counselor in Maryland.

Certification

The School Counseling program is accredited by the Maryland State Department of Education.

Coordinator:

Dr. Karla Diehl
Department of Educational Professions
301.687.4422
kdiehl@frostburg.edu

Professional Education Core	6 credits
Area of Concentration	33 credits
Capstone	6 credits
Total	45 credits

Program Objectives

1. To provide academic and experiential preparation in the major content areas of school counseling, grades K-12, in accordance with the Council for Accreditation of Counseling and Related Educational Program's standards for school counseling programs
2. To provide supervised opportunities for practical application of school counseling that underscore academic learning
3. To train students in ethical practices of school counseling as prescribed by the American Counseling Association and the American School Counselor Association
4. To require knowledge, application, analysis and reflection of current thought and research in the field
5. To require knowledge, recognition and ability to work with children in a school setting in developmental, preventative, remedial and crisis counseling
6. To develop knowledge and skills in consulting with faculty, parents and referral sources in the community
7. To develop technological skills necessary to function as a school counselor
8. To require an internship experience that integrates the program's content and skills with on-site activities and assessment
9. To develop knowledge of and ability to work with an array of diversity issues that are present in a K-12 environment
10. To foster personal growth with professional knowledge and skill development

Special Admission Criteria

NOTE: Students will be admitted for graduate study in school counseling once a year to begin coursework in the summer session. Application deadline is **February 1**. All applications received after the deadline will be considered pending availability in the cohort.

Applicants to the M.Ed. in School Counseling program must comply with the following:

1. If applicants have not earned at least a 3.0 GPA on a 4.0 scale in their undergraduate programs, they must submit a minimum score of 402 on the Miller Analogies Test or a minimum of 1,000 (V+Q) on the General Test of the Graduate Record Examination prior to the interview. Scores below the above criteria may be considered individually.
2. Applicants must provide the names, occupational titles, addresses and phone numbers of at least three references, two of whom must be previous work supervisors or someone who will be able to respond to questions concerning the candidate's suitability for graduate study in school counseling.
3. Applicants will provide a typewritten statement that will answer questions about themselves. These questions will be supplied by the Office of Graduate Services as part of the application for graduate study.
4. Applicants are required to have a pre-admission interview with the graduate program coordinator.
5. Applicant's undergraduate preparation must include the following courses (or their equivalent as determined by the program coordinator) for a total of 6 hours:
 - a. Introduction/General Psychology
 - b. Educational Psychology or Developmental Psychology (Child or Adolescent)
6. Applicants must provide documentation of experience working with children and/or adolescents through paid employment, extensive volunteer work and/or internship.

Special Degree Requirements

Study Plan

Students seeking a master's degree in school counseling are required to file a study plan with the program coordinator prior to the first course. Once approved, any changes in course work require permission of the program coordinator.

Admission to Candidacy

Application for admission to candidacy is made after completion of 15-18 credit hours of graduate course work. This must include the two Professional Education Core courses (EDUC 603, EDUC 606) as well as a minimum of 6 hours in the School Counseling Concentration (including SCCO 600 and SCCO 609). A cumulative GPA of 3.0 is also required, as well as the completion of any provisional admissions requirements. Transfer credits are not counted toward the 15-18 credits unless they are accepted as equivalent courses, and then the grades are not calculated in the GPA.

The program coordinator with the program faculty will review the application and make a decision regarding degree candidacy based on evidence of satisfactory academic performance and professional growth and development of the student. If a student's performance is found to be not acceptable, or the student's behavior indicates concern for optimal functioning as a school counselor, the program coordinator and program faculty have the right to require that the student be removed from the program based on the student's aptitude, professional growth or potential. If a student is removed from the program, he or she has the right to appeal to the Graduate Leadership Team of the Education Professions Department. If the appeal is denied, the student may reapply to the program after 1 year.

Comprehensive Examinations

All students seeking a degree in school counseling are required to successfully complete the comprehensive examination. The exam will be given once in the fall and once in the spring. Students typically take the exam during or just prior to their final semester in the program. If there is a question regarding the quality of responses on the comprehensive examination, it will be read by another faculty member. If necessary, the student will have the opportunity to rewrite a question one time, or to complete an oral examination with the school counseling faculty.

Personal Growth Experience

All students are required to participate in a counseling experience designed to enhance self-growth and self-awareness. This may be individual or group counseling, or a structured workshop, and must be **a minimum of 12** contact hours. Students are to establish appropriate documentation of this experience with the program coordinator.

Note: A criminal background check will be required by the hiring school system PRIOR TO employment as a school counselor. In addition, some internship sites may require a criminal background check prior to approving students for the internship placement.

Program Description (45 credits)

Professional Education Core (6 credits)

EDUC 603 Principles and Practices of Research
EDUC 606 Developmental Theory and Experiential Growth

Area of Concentration (33 credits)

SCCO 600 Core Counseling Skills
SCCO 601 Program Planning & Service Delivery
SCCO 606 Social & Cultural Diversity: Issues & Counseling Interventions
SCCO 608 Lifestyle, Career Development and Decision-Making
SCCO 609 Theories & Techniques in School Counseling
SCCO 610 Legal, Ethical and Professional Issues in School Counseling
SCCO 612 Practicum
SCCO 613 Group Dynamics & Interventions in the School Setting
SCCO 619 Assessment Issues in the School Setting
SCCO 692 School Counseling Seminar
EDUC 700 Research Paper or Project **or** 3-credit elective

Electives may be selected from psychology, special education or other disciplines with approval from the program coordinator.

Capstone (6 credits)

SCCO 693 Internship in School Counseling

Total credit hours: 45

Special Education

Level of Specialization

- ELEMENTARY
- SECONDARY

Professional Education Core	9 credits
Special Education Core	24 credits
Electives	3-6 credits
Capstone	3 credits
Total	39-42 credits

Program Purposes

This program is designed for certified teachers or candidates who are eligible for certification to prepare for special education positions.

The area of concentration is Special Education Teachers of Students With Disabilities in Individualized General Education Programs.

Certification

This program is intended to lead to certification as a generic special educator of students.

Generic 1-8

Generic 6-12

Program Objectives

Graduates of the program will be able to:

- Diagnose educational problems
- Prescribe educational programs to meet the needs of individual students
- Teach students with special needs
- Serve as an inclusion resource teacher with general education classroom teachers
- Evaluate current research in the field of special education, apply new approaches to the classroom and contribute new information and ideas to the field

Special Admission Criteria

Applicants to this program must hold or be eligible for certification as a public school teacher.

Program Description (39-42 credits)

Professional Education Core (9 credits)

EDUC 603	Principles and Practices of Research
EDUC 606	Developmental Theory and Experiential Growth
EDUC 640	Curriculum Development

Special Education Core (24 credits)

SPED 561	Characteristics of Exceptional Children
SPED 562	Introduction to the Education of Exceptional Children
SPED 601	Assessment, Diagnosis and Evaluation of Exceptional Children
SPED 602	Instructional Content and Practices for Exceptional Children
SPED 603	Planning and Managing the Teaching and Learning Environment
SPED 604	Managing Student Behavior and Social Interaction Skills
SPED 605	Communication and Collaborative Partnerships in Special Education Programs
SPED 691	Seminar in Special Education

Electives (3-6 credits)

Capstone (3 credits)

EDUC 700	Master's Research Paper or Project
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Total credit hours: 39-42

Special Degree Requirements

Study Plan

A study plan, which must be completed at the beginning of the program at the interview with the program coordinator, is required for all students in special education. This is expected to occur prior to registering for the first course. Once approved, changes in the study plan require the permission of the advisor and the program coordinator.

Admission to Candidacy

Admission to candidacy occurs when you have completed a minimum of 15 credits and a maximum of 18 credits. You must have completed the three Professional Core courses (EDUC 603, EDUC 606 and EDUC 640) as part of this admission process. Six credits within the Special Education Core must have also been completed. A cumulative GPA of 3.0 is required, as well as the approval of the advisor and two other faculty members who have taught you. Transfer courses are not counted toward the 15-18 credits unless they are accepted

Coordinator:

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as equivalent courses, and then the grades are not calculated in the GPA. Your advisor and the program coordinator have the right to require that you remediate deficiencies even if that requires extra courses, or to require that you be disenrolled from the program based on your aptitude and professional growth potential. If disenrolled, you have the right to appeal to the Educational Professions Graduate Leadership Team. If the appeal is denied, you may reapply to the program after 1 year.

Demonstration of Competencies

In addition to the degree candidacy conditions set forth in the Master of Education section of this catalog, candidates for a Master of Education degree in special education must *fulfill the Praxis II Special Education licensure requirements for the state of Maryland. Additionally, candidates must demonstrate research-based technological competencies appropriate to the instruction of exceptional individuals.*

Master of Science in Applied Computer Science

- Many graduate classes are offered in the late afternoons and evenings to accommodate the professionally employed students.
- This degree is offered as a full- or part-time degree.

Program Description

The Master of Science degree in applied computer science provides an advanced computer science education. This program offers the opportunity to specialize in one of two concentrations.

The database concentration provides a comprehensive approach for detailed study in database, data mining and data warehousing. Students successfully completing this program will have a practical knowledge of the principles and foundations for analysis, design, implementation and administration of large databases.

Students completing the general concentration will possess a broad applied knowledge in computer networking and communications, software engineering and artificial intelligence. They will have skills and practical experience in information technology. These skills will qualify them for professional, technical and managerial positions in education, industry and government.

Admission Criteria

In addition to Frostburg State University's general admission requirements, applicants must have:

1. A bachelor's degree in computer science/information science

or:

A bachelor's degree and specified background courses determined by the graduate program coordinator

2. An undergraduate GPA of at least 3.0 on a 4.0 scale for full admission or documented proficiency

Admission to the program is determined by the Graduate Committee of the Department of Computer Science.

Program Requirements

	DATABASE	CONCENTRATION GENERAL
Basic Required Courses	9	9
Core Courses	12	18
Elective Courses in Concentration	6	—
General Elective Courses	3	3
Total	30	30

Basic Required Courses (9 credits)

COSC 610 Advanced Object-Oriented Data Structures and File Organization
 COSC 620 Security in Computing
 COSC 625 Advanced Software Engineering

Database Concentration

Core Courses (12 credits)

COSC 640 Database Management Systems I
 COSC 641 Database Management Systems II
 COSC 645 Data Mining
 COSC 646 Data Warehousing

Elective in Concentration Courses (two in concentration; 6 credits)

COSC 647 Database Security
 COSC 649 Database Administration
 COSC 690 Special Topics in Database Management Systems
 COSC 691 Special Topics in Data Mining and Data Warehousing

Coordinator:

Dr. George Rinard
 Department of Computer Science
 301.687.4719
 brinard@frostburg.edu

MASTER OF SCIENCE IN APPLIED COMPUTER SCIENCE

General Elective Courses (3 credits)

COSC	520	Robotics and Computer Control
COSC	550	Programming Language Structures
COSC	555	Artificial Intelligence
COSC	560	Operating Systems Concepts
COSC	565	Computer Systems Architecture
COSC	570	Compiler Designs and Constructions
COSC	575	Interactive Computer Graphics
COSC	580	Knowledge-Based Information Systems
COSC	585	Theory of Computation
COSC	591	Seminar in Computer Science
COSC	599	Individual Problems in Computer Science
COSC	700	Master Research Paper or Project

General Concentration**Core Courses (18 credits)**

COSC	630	Web Development and Programming I
COSC	631	Web Development and Programming II
COSC	635	Networking and Data Communications I
COSC	636	Networking and Data Communications II
COSC	640	Database Management Systems I
COSC	641	Database Management Systems II

General Elective Courses (3 credits)

COSC	550	Programming Language Structures
COSC	555	Artificial Intelligence
COSC	565	Computer Systems Architecture
COSC	570	Compiler Designs and Constructions
COSC	575	Interactive Computer Graphics
COSC	580	Knowledge-Based Information Systems
COSC	585	Theory of Computation
COSC	591	Seminar in Computer Science
COSC	599	Individual Problems in Computer Science
COSC	700	Master's Research Paper or Project

Academic Advising

Upon admission to the program, each student will be assigned an academic advisor. The student must meet with the advisor to devise a plan of work.

Biological Sciences

- **Master of Science in Applied Ecology & Conservation Biology**
- **Master of Science in Wildlife/Fisheries Biology**

The two programs offered in the biological sciences represent a joint effort between two constituent institutions of the University of System of Maryland—Frostburg State University and the Appalachian Laboratory (AL), Center for Environmental Science. Each program is distinct, yet they have similar structure and basic degree requirements and involve many of the same faculty and resources. Accordingly, the two degree programs adhere to a common set of regulations and requirements, which are listed below.

Coordinator:

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Procedure for Regular Admission

Basic admission procedures and requirements are set forth in the “Graduate Study at FSU” section of this catalog. The following are additional requirements and procedures for the two programs in the biological sciences:

1. You must have completed a baccalaureate degree from an accredited college or university with an undergraduate grade point average of at least 3.0 on a 4.0 scale. Official scores on the Graduate Record Examination (General Test) must be submitted by the Educational Testing Service directly to the Office of Graduate Services. If you have not earned at least a 3.0 GPA, you must submit a minimum score of 1,000 (V+Q) on the General Test of the Graduate Record Examination. Scores below the above criteria will be considered individually.
2. You must submit a resume, summary of educational goals and research interests, and the names of three professional references who will complete reference forms in support of your admissions application. Reference forms will be supplied by the Office of Graduate Services as part of your application for graduate study.
3. All application materials must be received by March 1 for the fall semester and November 1 for the spring semester. When all application materials are received, a screening committee composed of Biology and Appalachian Laboratory faculty will determine if your undergraduate background satisfies the requirements outlined in the section on special admission requirements for the individual degree programs (see the following pages). Some students may be required to take undergraduate courses to meet deficiencies. These courses cannot be counted toward the 36 credit hours for degree requirements.
4. Before you can be admitted as special status or regular status to either of the MS programs in the biological sciences, you must have secured a major professor from the graduate faculty of AL or Biology. This individual will provide you with guidance and serve to direct your thesis research. Faculty may obtain grants and contracts that are important sources of funds for graduate assistantships and projects. Faculty members play a major role in choosing students they wish to support. You are advised to initiate correspondence with faculty members in Biology or AL prior to the formal process of completing an application. Early contact with the faculty is very important. A list of current faculty members and their research interests and areas of expertise is available from the graduate program coordinator. Alternatively, contact either the director of AL or the chair of Biology for suggestions on an appropriate major professor.

Once you have secured a major professor, you must be sure that your major professor transmits a letter to the Office of Graduate Services and graduate program coordinator stating that he or she is willing to serve as major professor.

A change in major professors is permissible. Students should recognize that changes in major professors after the first semester may mean additional course work and/or the loss of an assistantship.

Procedural Sequence and Requirements for Degree Candidates

You must complete steps 1-5 (below) during your first year. Step 7 represents the final major requirement of the degree. There is a deadline of March 1 for students entering in fall, and November 1 for students entering in spring for the Master's Committee selection, for oral examinations, plan of study and submission of the thesis proposal. Notifications and submissions are to be made to the graduate program coordinator and Office of Graduate Services.

1. Select Master's Committee

With assistance of your major professor, you must select a Master's Committee during your first semester. The Master's Committee must consist of your major professor plus at least two other members, one of whom must be a faculty member of FSU. Individuals from other institutions or agencies may serve on the committee, but they must be acceptable as adjunct faculty at AL or the Biology Department.

2. Take Oral Qualifying Examination

By April 15 (for the fall semester) or November 15 (for the spring semester), your Master's Committee will give you an oral qualifying exam. This tests your general knowledge of the biological sciences and your proposed area of specialization. This exam is primarily a diagnostic test to help your committee develop a program of study that will strengthen your understanding of the concepts in areas where you have shown weakness. In the event of substandard performance in all areas, a retest must be taken within 6 months of the first exam. Failure of the second examination or failure to retake the exam within 6 months will result in your termination from the MS program.

3. Develop Plan of Study

After successful completion of the oral qualifying exam, you and your committee will develop a plan of study that is a list of the courses you will take. The plan of study must be approved unanimously and signed by the members of your Master's Committee.

Your plan of study will address four areas:

- Undergraduate deficiencies, as determined by the Screening Committee (see special admission criteria in the appropriate field)
- Core courses (see program description in the appropriate field) and any substitutions of core courses
- Elective courses
- Any additional requirements that your Master's Committee identifies

Subsequent changes to the plan of study must be submitted to the graduate program coordinator with the appropriate authorization. A single course change in an elective course requires only the approval of your major professor, but any subsequent changes require approval by a majority of your Master's Committee.

The following special requirements apply to the selection of courses:

- At least 15 credit hours must be at the 600 level or above.
- During your first fall semester, you should register for BIOL 600 (Methods of Research in Biological Sciences) and, for Wildlife/Fisheries Biology, MATH 680 (Research Statistics) or a suitable statistics course.
- No more than 6 credits of Special Topics (BIOL 650) and 3 credits of Individual Research (BIOL 699) may be counted as elective courses. Thesis (BIOL 710) credits may not be counted as elective course credits.
- No more than 12 credits of Thesis (BIOL 710) may be counted toward the degree.

4. Submit Plan of Study

The approved Plan of Study form will be forwarded by your major professor to the graduate program coordinator.

5. Submit an Approved Thesis Proposal

A copy of your written thesis proposal (see *Graduate Student Handbook* for details) must be signed by all members of your Master's Committee and forwarded to the graduate program coordinator. The thesis proposal must be distributed to your Master's Committee at least 1 week prior to the meeting where that committee will consider approval of your proposal.

6. Apply for Degree Candidacy

See below for details.

7. Write and Defend Thesis

Complete an original thesis, give an oral presentation of the thesis and then defend the thesis in a final oral thesis defense. See below for details.

8. Continuous Registration

Register for at least 1 credit hour of BIOL 710 during the intended semester of graduation. If degree requirements are not completed during the semester of initial application for graduation, the student must continue to register each semester until graduation occurs. A student seeking August graduation must register in the first summer session. A student failing to register for a semester will automatically be dropped from the program, and to graduate must reapply for admission. Students who are readmitted will register for an appropriate number of semester credits as determined by departmental policy and implemented by the graduate program coordinator.

Degree Candidacy

Frostburg State University regards degree candidacy as an important element of the master's degree programs in the biological sciences. The purpose of degree candidacy is to provide a formal mechanism whereby your academic performance and progress are evaluated. Forms for application to degree candidacy are available through your graduate program coordinator.

To be admitted to degree candidacy, you must have:

- Completed steps 1-5 above
- Completed any deficiency courses identified by the Screening Committee
- Completed 12 hours of graduate course work (maintaining at least a 3.0 GPA)

Thesis

A major part of the degree programs in the biological sciences is the research associated with your project. The thesis is reflected in 6 credit hours minimum of Thesis (BIOL 710), although the effort expended on the thesis research may substantially exceed that typically expended on 6 credit hours of standard course work. Specific information regarding the proposal, thesis preparation, binding and distribution can be found in the *Graduate Student Handbook* available through your graduate program coordinator.

You must present a public seminar on your thesis research, once you have written the thesis. After the presentation, you must defend the thesis orally, which entails responding to questions from your Master's Committee concerning your thesis research. It is the responsibility of you and your major professor to notify the graduate program coordinator as to the time and place of your public seminar at least 10 working days before this event.

Course Offering Schedule

For your information and planning, the list below provides the frequency and sequence of graduate biology courses. The schedule is subject to change.

Fish/WLDLF/AECB

Every Semester

- 527 Comparative Anatomy
- 601 Laboratory Teaching Experience
- 650 Special Topics in AECB/Fish/Wldlf
- 699 Individual Research in AECB/Fish/Wldlf
- 710 Thesis

Every Fall Semester

- 517 Ichthyology
- 521 Sample Design and Anal. of Plant Commun.
- 523 Mammalogy
- 530 Limnology
- 550 Ecology and Management of Wildlife Pop.
- 600 Methods of Research in Biological Sciences

Every Spring Semester

- 506 Ornithology
- 511 Invertebrate Zoology
- 514 Quant. Analysis of Vertebrate Pop.
- 520 Fish Management and Culture
- 522 Herpetology
- 640 Population and Conservation Genetics

Fall of Odd-Numbered Years

- 502 Evolution
- 625 Wildlife Habitat Ecology and Analysis
- 626 Wildlife Habitat Ecology and Analysis Laboratory
- 632 Land Margin Interactions
- 641 Conservation Biology and Reserve Design
- 643 Ethics, Economics and Politics in Conserv.

Spring of Odd-Numbered Years

- 507 Biological Systematics
- 510 Plant Diseases
- 536 Electron Microscopy for Biologists
- 609 Plant Ecology

Fall of Even-Numbered Years

- 512 General Parasitology
- 610 Animal Physiology
- 631 Stream Ecology
- 622 Ecosystem Ecology
- 623 Landscape Ecology

Spring of Even-Numbered Years

- 504 Histology
- 612 Animal Ecology
- 613 Plant Physiology
- 621 Terrestrial Biogeochemistry

Irregular Offerings

- 535 Molecular Biology
- 537 Molecular Biology Seminar
- 538 Biotechnology Laboratory
- 539 Environmental Toxicology
- 540 Developmental Biology
- 694 Graduate Seminar in Fish/Wldlf/AECB

Additional courses are taught by AL faculty in the following areas: ecosystem ecology, biogeochemistry, landscape ecology, forest hydrology, watershed ecology, wetlands hydrology and ecosystem energetics.

Master of Science in Applied Ecology & Conservation Biology

The Master of Science in Applied Ecology & Conservation Biology program enables students to gain scientific training in addressing conservation issues, especially those pertaining to the persistence of native populations and communities in a changing environment, landscape fragmentation, conservation/development conflicts, watershed assessment and integrated resource management. The program addresses both domestic and international issues, since the need of professionals is broad-based and global. Frostburg State University has interinstitutional agreements with universities and national agencies in African and Central American countries that facilitate the international dimensions of this program.

The **conservation biology track** addresses both local and global problems associated with conflicts between human development and conservation of biodiversity. It is designed to prepare students for professions that require specialized training directed at maintaining biodiversity. The **landscape and watershed ecology track** addresses the effects of human activities and natural processes on terrestrial and aquatic ecosystems at multiple scales. Students completing this track will be prepared for professional careers in resource and watershed management and restoration. Both tracks prepare students for work with environmental consulting firms, national and international conservation organizations, and state and federal agencies. Graduates of our program also are well-prepared to pursue further graduate education.

Coordinator:

Dr. R. Scott Fritz
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Special Admission Criteria

A screening committee composed of AL and FSU biology faculty will examine your transcripts and determine if your course work meets the requirements listed below. Areas of deficiency will necessitate your taking undergraduate courses that will not be counted toward the 36 credit hours required for the degree program. You must have completed a baccalaureate degree from an accredited college or university. Your undergraduate training must have included 1 year of courses in general biology and general chemistry, and at least one semester of organic chemistry and statistics. One semester of genetics is required for the Conservation biology track and one semester of physical science is required for the landscape and watershed ecology track. Additionally, your transcripts must show that you have passed one course in at least three of these eight fields:

- Anatomy or Morphology
- Ecology
- Physiology
- Cellular or Molecular Biology
- Evolution or Systematics
- Natural Resource Management
- Developmental Biology
- Environmental or Earth Science

Program Description (at least 36 credits)

Core Courses (16-22 credit hours)

BIOL 641	Conservation Biology and Reserve Design	3 credits
BIOL 643	Ethics, Economics and Politics in Conservation	2 credits
BIOL 600	Methods of Research in Biological Sciences	2 credits
BIOL 601	Laboratory Teaching Experience	2 credits
BIOL 694	Integrative Ecology/Wildlife Graduate Seminar	1 credits
BIOL 710	Thesis*	6-12 credits

*Enroll in the final credit hours of thesis in the semester in which you expect completed thesis to be approved.

Required for Conservation Biology Track (3 credit hours)

BIOL 640	Population and Conservation Genetics	3 credits
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Required for Landscape and Watershed Ecology Track (4 credit hours)

BIOL 632	Land Margin Interactions	4 credits
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Electives (12-18 credit hours)

At least 6 credit hours must be from departments other than Biology. Course names followed by (AL) indicate which courses are taught by faculty at the University of Maryland Center for Environmental Science's Appalachian Laboratory. All other courses are taught by FSU faculty.

Total credit hours: at least 36

Biology

502	Evolution
506	Ornithology
507	Biological Systematics
510	Plant Diseases
511	Invertebrate Zoology
512	General Parasitology
514	Quantitative Analysis of Vertebrate Populations
517	Ichthyology
520	Fish Management and Culture
521	Sample Design & Analysis of Plant Communities
522	Herpetology
523	Mammalogy
527	Comparative Anatomy
530	Limnology
535	Molecular Biology
538	Biotechnology Laboratory
539	Environmental Toxicology
550	Ecology & Management of Wildlife Populations

609	Plant Ecology
610	Animal Physiology
612	Animal Ecology
613	Plant Physiology
621	Terrestrial Biogeochemistry (AL)
622	Ecosystem Ecology & Analysis (AL)
623	Landscape Ecology (AL)
625	Wildlife Habitat Ecology & Analysis (AL)
631	Stream Ecology (AL)
650	Special Topics

Geography

506	Conservation of Natural Resources
513	Remote Sensing—Aerial Photo Interpretation
514	Digital Image Processing & Analysis
530	Surface Water Hydrology
545	Biogeography
572	Environmental Planning
573	Environmental Law

Economics

510 Resource & Environmental Economics

Business

502 Essentials: Marketing & Strategy

Management

542 Organizational Behavior

Mathematics

570 Mathematical Models & Applications
581 Applied Regression Analysis
582 Applied Nonparametric Statistics
680 Research Statistics

English

540 Literature of the Environment

In addition, the following courses taught at the Appalachian Laboratory through the Marine, Estuarine, and Environmental Sciences (MEES) Program of the University of Maryland are available for students to take for credit:

498A Biometry (AL)
698M Landscape Analysis/Quantitative Ecology (AL)
698O Watershed Hydrology (AL)
698S Community Ecology (AL)

Master of Science in Wildlife/Fisheries Biology

The Wildlife/Fisheries Biology program is designed to prepare you for research and management positions within the public and private sectors. The program allows flexibility, yet offers courses necessary for certification as a biologist with professional organizations such as The Wildlife Society and the American Fisheries Society.

Upon completion of the Wildlife/Fisheries Biology program, you will have achieved a general knowledge and competence in one or more of the following disciplines: aquaculture, aquatic ecology, terrestrial ecology, conservation biology, management techniques, population biology, evolutionary ecology, aquatic toxicology, habitat analysis, systematics and systems modeling.

Coordinator:

Dr. R. Scott Fritz
Department of Biology
301.687.4306
rfritz@frostburg.edu

Special Admission Criteria

A screening committee composed of AL and FSU Biology faculty will examine your transcripts and determine if your course work meets the requirements listed below. Areas of deficiency will necessitate your taking undergraduate courses that will not be counted toward the 36 credit hours required for the degree program.

You must have completed a baccalaureate degree from an accredited college or university. Your undergraduate training must have included 1 year of courses in general biology and general chemistry, one semester of calculus and at least one semester of organic chemistry and statistics. Additionally, your transcripts must show that you have passed one course in at least four of these eight fields of biology:

- Anatomy or Morphology
- Cellular or Molecular Biology
- Developmental Biology
- Ecology
- Evolution or Systematics
- Genetics
- Physiology
- Natural Resource Management

Program Description *(at least 36 credits)*

Core Courses *(17-23 credit hours)*

BIOL 514	Quantitative Analysis of Vertebrate Populations	(3 credits)
BIOL 600	Methods of Research in Biological Sciences	(2 credits)
BIOL 601	Laboratory Teaching Experience	(2 credits)
BIOL 694	Graduate Seminar	(1 credit)
MATH 680	Research Statistics	(3 credits)
BIOL 710*	Thesis	(6-12 credits)

**Enroll in the final credits of thesis in the semester in which you expect the completed thesis to be approved.*

Elective Courses *(13-19 credit hours)*

At least 13 credit hours of graduate courses are to be selected with the approval of your advisor and committee members.

Total credit hours: at least 36

Master of Science in Counseling Psychology

Certificates

- Addictions Counseling Psychology
- Child and Family Counseling Psychology

Providing training in professional psychology at the graduate level, the Master of Science in Counseling Psychology program is designed for those pursuing further study in science-based counseling psychology. Our theoretical perspective is integrative, including cognitive-behavioral, family systems, developmental, feminist, multicultural, humanistic and brief therapies. We emphasize training in empirically supported treatments for children, adolescents, families and adults.

The Master of Science in Counseling Psychology program is accredited by the Masters in Psychology Accreditation Council.

A small faculty-student ratio creates opportunities for frequent, individual interaction throughout the program. Students develop counseling skills through learning about self, client, counselor-client relationships, and the importance of cultural contexts. Considerable attention is given not only to development of professional skills but also to personal development and multicultural awareness. These emphases reflect our belief that an effective counselor is one who is self-aware and receptive to consultation.

The evaluation of students is an integral feature of the program aimed at identifying the student's strengths, needs and characteristics that may need attention in promoting the development of counseling skills. Evaluation takes place several times during the program, including at the end of the first and second semesters of course work and at the time of degree candidacy.

For continuing study at the doctoral level, experience and knowledge gained in this program provide a firm foundation. Optional research opportunities prepare students for advanced graduate study in psychology. The Center for Children and Families offers unique research and service experiences. Two certificate programs provide specialized training in addictions counseling psychology and child and family counseling psychology. These can be completed within the 3-year program of study. All National Counselor Exam course areas are offered, and FSU offers this exam.

The normal length of the program is 2 years of full-time course work followed by a 1-year internship. Full- and part-time study is available. On completion of this program, students will have met all academic requirements for licensure for each state in the tri-state area (as well as much of the U.S.) in the area of professional counseling.

Special Admission Criteria

In addition to the general admission requirements for all graduate programs, you are required to meet the following criteria:

1. You must have completed the baccalaureate degree at a regionally accredited institution of higher education (verified by an official transcript) with an undergraduate GPA of at least 3.0 on a 4.0 scale. If you have NOT earned at least a 3.0 GPA, you must submit a minimum score of 410 on the MAT or a minimum score of 1,000 (V+Q) on the General Test of the GRE. Scores below the above criteria will be considered individually.
2. You must ask three professionals to complete reference forms concerning your suitability for graduate study in counseling psychology. At least two of these references must be from professors who have taught or supervised you.
3. You are to provide a resumé with your application for admission.
4. You are to provide a typewritten statement that will answer questions about yourself. These questions will be supplied by the Office of Graduate Services as part of your application for graduate study.
5. You must interview with the graduate program coordinator. If additional interviews are required, then the coordinator will arrange them. If you cannot arrange to come to the campus for an interview, the coordinator will arrange for a telephone interview. The purpose of the interview is to provide another source of information regarding the applicant's appropriateness for training as a counselor.
6. Undergraduate preparation must include the following courses for a total of 15 credit hours (or their equivalent as determined by the Psychology Admissions Committee):
 - a. Introduction/General Psychology
 - b. Psychological Statistics or Research Methods
 - c. Developmental Psychology (Child, Adolescent or Adult)
 - d. Abnormal Psychology (Adult or Child)
 - e. Elective in Psychology
7. Application Deadline: February 1 for the fall semester. Degree program admissions are made only for the fall semester.
8. Note: Some internships sites may require a criminal background check prior to approving students for internship placement.

Coordinator:

Dr. Michael Murtagh
Department of Psychology
301.687.4446
mpmurtagh@frostburg.edu

Program Description

Basic Preparation Courses

Although not required for admission, the following courses represent needed background for the more advanced courses in the program. If the student has not taken these courses at an advanced level as an undergraduate, these courses must be taken at Frostburg State University at the beginning of the student's program of study. If the student has taken some or all of these basic preparation courses at another institution but the courses are not comparable to FSU's, the student will be asked to either take the course(s) at FSU or take an equivalency exam to test out of the course(s):

- PSYC 508 Tests and Measurements
- Plus **one 3-credit hour course** addressing the physiological basis of behavior: Physiological Psychology (PSYC 520), Health Psychology (PSYC 530) or Addictions Issues and Treatment (PSYC 686) or their equivalent at another university

Course Requirements (Total = 60 credits)

- Graduate course work listed below (42 credits):

PSYC 600 Introduction to Counseling and Assessment
 PSYC 602¹ Advanced Research Evaluation and Interpretation (or PSYC 570)
 PSYC 610 Small Group Dynamics/Group Counseling
 PSYC 614 Advanced Developmental Psychology
 PSYC 616² Psychological Issues in Career Counseling
 PSYC 617 Adult Psychopathology
 PSYC 618 Child Psychopathology
 PSYC 619² Professional, Ethical & Legal Issues in Counseling
 PSYC 630 Theories and Techniques of Counseling I
 PSYC 640 Theories and Techniques of Counseling II
 PSYC 650 Family Therapy
 PSYC 660 Individual Assessment
 PSYC 670 Multicultural Counseling Techniques
 PSYC 686 Addiction Issues & Treatment

- A minimum of a total of 12 credits of internship across two semesters:

PSYC 695 Internship in Counseling (6-12 credits)
 PSYC 696 Advanced Internship in Counseling (6-12 credits)

- Six additional credits consisting of up to two additional electives³ or up to 6 additional credits of internship

³Approved Electives

PSYC 504 Psychology of Exceptional Child
 PSYC 520 Physiological Psychology
 PSYC 530 Health Psychology
 PSYC 544 The Male Experience
 PSYC 570 Research Methods Applications
 PSYC 581 History and Systems
 PSYC 585 Behavioral App. to Human Problems
 PSYC 590 Special Topics in Psychology
 PSYC 591 Seminar in Psychology
 Any 500-level PSYC course
 PSYC 602* Advanced Research Evaluation & Interpretation
 PSYC 625 Counselor as a Person
 PSYC 680 Advanced Treatment Strategies With Children, Adolescents & Families
 PSYC 692 Adv. Seminar in Psychology
 PSYC 698 Readings in Psychology
 PSYC 699 Ind. Research in Psychology

Approved Education Electives

SCCO 608 Lifestyle, Career Development & Decision Making
 EDUC 523 AIDS: Information, Instruction and Counseling
 EDUC 606 Developmental Theory & Experiential Growth
 EDUC 590 Special Topics: AIDS: Peer Counseling and Education

¹Students who have a strong Research Methods background are encouraged to substitute PSYC 602 with PSYC 570-Advanced Experimental Psychology. This course is ideal for those who wish to engage in research and prepare to go on for doctoral studies. You may wish to consult with your advisor to determine your eligibility to enroll in PSYC 570.

²To complete this program, students will have to take PSYC 616 and PSYC 619 during an intersession or summer session.

*You may take both PSYC 570 and PSYC 602; one can count as the program requirement and one as an elective.

Other SCCO and EDUC courses with prior approval of MS Committee

Internship

An important aspect of the program, not often found in master's level studies, is the two-semester internship. The opportunity to intern at one of a variety of sites, for up to 36 hours per week during a 9-month period, provides the student with unusually thorough preparation for eventual employment.

Areas for internship are generally restricted to the Maryland, Pennsylvania, West Virginia region, within commuting distance of Frostburg.

Ongoing supervision is provided by an on-site supervisor. Some internship sites may require a criminal background check prior to approving students for the internship placement.

Special Degree Requirements

Personal Growth Experience

All students are required to participate in a counseling experience designed to enhance their self-growth and self-awareness. This may be individual or group counseling, or a structured workshop, and must be 12 hours.

Degree Candidacy

Frostburg State University regards degree candidacy as an important element of the Master of Science in Counseling Psychology degree program. The purpose of degree candidacy is to provide a formal mechanism as part of your program of study whereby your academic performance and progress toward completion of degree requirements are evaluated. Criteria for this evaluation are found in the *MS in Counseling Psychology Graduate Student Handbook*.

Conditions of Degree Candidacy and Internship

It is your responsibility to apply for degree candidacy. Application for degree candidacy must occur during the semester in which you will complete 12 or more credit hours of 600-level program requirements, including PSYC 640. To apply for degree candidacy you must:

1. Have completed all graduate credit taken as approved from Frostburg State University with a cumulative GPA of 3.0 or better
2. Have completed all undergraduate preparation courses and any other course deficiencies as they are listed on your study plan
3. Have completed all required basic preparation courses

Acceptance to degree candidacy must be approved before you apply for the internship. All course work except for electives must be completed prior to interning, and you must have achieved a cumulative GPA of 3.00 or better to intern.

Internship is normally graded on a PASS/NON-PASS basis. To continue in the program and register for Advanced Internship (696), you must receive a PASS in Internship (695). Should you be unable to complete either PSYC 695 or 696 during the semester you initially enrolled, an incomplete (I) may be assigned.

Graduation

In addition to satisfactorily completing the basic master's degree requirements described in this catalog, an exit interview and recommendation for graduation from your Master's Committee (your advisor and one other faculty member) are required. You must apply for graduation according to the schedule listed in the academic regulations section of this catalog.

Psi Chi

Psi Chi is the national honor society in psychology. The major goals of Psi Chi are to honor outstanding psychology students by membership in this society and to foster a climate conducive to the creative development of the society. For complete information, contact the chair of the Department of Psychology.

Graduate Certificate Programs

- ADDICTIONS COUNSELING PSYCHOLOGY
- CHILD AND FAMILY COUNSELING PSYCHOLOGY

Certificate Programs

The Master of Science in Counseling Psychology program offers two, post-baccalaureate certificates: (1) Addictions Counseling Psychology and (2) Child and Family Counseling Psychology. In addition to FSU policies governing all post-baccalaureate programs (*see page 10 of this catalog*), these certificates have the following prerequisites and entrance requirements.

1. Certificates will be awarded only to those who have completed graduate degrees in the mental health counseling field. Appropriate master's degrees would include counseling or clinical psychology, school counseling, mental health counseling, clinical social work or equivalent degrees. Two master's degree programs at FSU meet this requirement: Master of Science in Counseling Psychology and Master of Education in School Counseling.
2. If you are not currently an FSU graduate student and you plan to enroll in courses in the certificate program as a non-degree-seeking student, OR if you are an FSU graduate student in the MEd School Counseling program, you must apply to the certificate program and then meet with the faculty contact person PRIOR to enrolling in your first course in the certificate program. Application requirements are listed below. Program faculty will determine if you have the necessary qualifications and prerequisites to begin certificate courses.
 - a. FSU MEd School Counseling students (SCCO). All entrance requirements for the SCCO program meet certificate admission requirements EXCEPT that students submitting MAT scores to qualify for admission to the SCCO program must achieve an MAT score of 410 for admission to the psychology graduate certificate programs. Verification of satisfying these admission standards must be submitted prior to meeting with the faculty contact person.
 - b. Non-degree-seeking students' requirements: Completion of a mental health counseling graduate degree from a regionally accredited institution of higher education (verified by an official transcript) with a graduate GPA of at least 3.0 on a 4.0 scale. Two letters of reference from mental health professionals who have taught or supervised the applicant. Transcript and reference must be submitted prior to meeting with the faculty contact person.
3. Some courses in the certificate programs have as prerequisites other certificate courses. Students are expected to take certificate courses in the sequence prescribed by prerequisites. Students will be asked to withdraw from any courses where they have not met the prerequisite(s) or obtained permission of the course instructor.
4. Professionals or students seeking this certification who are not enrolled in FSU's MS Counseling Psychology program will be required to complete one semester of internship through the MS Counseling Psychology program, and in this semester, 100 percent of internship direct services hours (i.e., 150 hours) must be in the service area related to the certificate. Students enrolled in FSU's MS Counseling Psychology program may complete their 150 hours over two semesters of internship.

Addictions Counseling Psychology Graduate Certificate

- In addition to the listed courses, completion of a graduate degree in mental health counseling is required. Appropriate master's degrees would include counseling or clinical psychology, school counseling, mental health counseling, clinical social work or equivalent degrees. (This requirement is consistent with state of Maryland law; a master's degree is required in health or human services.)

Faculty Advisor:

Dr. Michael Murtagh
Department of Psychology
301.687.4446
mpmurtagh@frostburg.edu

Program Description

Required Courses (29 credits)

Note: Some courses are prerequisites for others.

PSYC 386** Drugs & Behavior or equivalent
(candidates may elect to complete this area by credit-by-examination)
PSYC 570 or 602 Research Methods Appl. or Adv. Research Evaluation & Interpretation
PSYC 600 Introduction to Counseling & Assessment
PSYC 610 Group Counseling
PSYC 614 Advanced Developmental Psychology
PSYC 617 or 618 Adult or Child Psychopathology
PSYC 670 Multicultural Counseling Techniques

PSYC 686 Addictions Issues and Treatment
PSYC 695 and/or 696 Internship: 150 hours of supervised direct services in addictions counseling (5-credit minimum)*

Total: 29-credit minimum

**Professionals seeking this certification who are not graduates of FSU's MS Counseling Psychology program will be required to complete one semester of internship at FSU, and in this semester, 100 percent of internship direct services hours (i.e., 150 hours) must be with clients receiving addiction services. Students enrolled in FSU's MS Counseling Psychology program may complete their 150 hours over two semesters of internship.*

***Not an M.S Counseling Psychology program requirement*

Child and Family Counseling Psychology Graduate Certificate

- In addition to the above courses, completion of a graduate degree in mental health counseling is required. Appropriate master's degrees would include counseling or clinical psychology, school counseling, mental health counseling, clinical social work or equivalent degrees.

Faculty Advisor:

Dr. Jason H. Edwards
Department of Psychology
301.687.4204
jedwards@frostburg.edu

Program Description

Required Courses (26 credits)

Note: Some courses are prerequisites for others.

PSYC 600 Introduction to Counseling & Assessment
PSYC 570 or 602 Research Methods Appl. or Adv. Research Evaluation & Interpretation
PSYC 614 Advanced Developmental Psychology
PSYC 618 Child Psychopathology
PSYC 630 Theories & Techniques of Counseling I
PSYC 650 Family Therapy
PSYC 680** Advanced Treatment Strategies with Children, Adolescents & Families
PSYC 695 and/or 696 Internship: 150 hours of supervised direct services with children/adolescents & families

Total: 26-credit minimum

**Professionals seeking this certification who are not graduates of FSU's MS Counseling Psychology program will be required to complete one semester of internship at FSU, and in this semester, 100 percent of internship direct services hours (i.e., 150 hours) must be with children/adolescents and families. Students enrolled in FSU's MS Counseling Psychology program may complete their 150 hours over two semesters of internship. A criminal background check must be completed prior to interning.*

***Not an M.S Counseling Psychology program requirement*



Master of Science in Recreation and Parks Management

The Master of Science in Recreation and Parks Management (RPM) is a program designed to provide professionals who have some administrative and supervisory experience with the skills and techniques necessary to become upper-level managers in public, non-profit and commercial agencies in the parks and recreation field. Individuals with degrees in allied fields who are currently working in the parks and recreation field are encouraged to apply and will find the program professionally and personally fulfilling.

The Recreation and Parks Management curriculum has several innovative features that are designed to provide students with a quality education. The program is designed to train the next generation of leaders in the parks and recreation field, and it caters to those working in the field who are interested in advancing themselves professionally. Next, the program introduces the students to the RPM faculty in addition to seasoned upper-level practitioners in the field throughout the 10 required classes. Students may select from various templates to complete a final project that is applicable to their area of interest with a focus on providing professional advancement within their current agency and the profession as a whole. Lastly, the program is offered totally online, with the exception of a 3-day orientation prior to the start of classes to help orient the students regarding the program, provide online training, introduce students to faculty and enjoy some social interaction prior to the beginning of their educational journey!

Online Learning Approach

Throughout its 15-year history, the master's program has traditionally been offered through a weekend cohort approach in the Maryland metropolitan area. Due to the growing needs of professionals without available access to a graduate degree and the busy schedules of our students, the program has transitioned to an online format with one face-to-face orientation. There are 10 required courses that make up the 30-credit program. If a student completes all requirements, the program will take 2 ½ years to complete. The program is designed to accommodate professionals working in the field who desire to remain employed while completing their program. Since most students are working professionals, they are part-time students and will be expected to complete two classes each semester (spring and fall). A new cohort will begin every fall. Early admission is April 1 with the final deadline for application of June 15, pending availability in the cohort. The application must be fully complete to be considered. All applications received after the deadline will be placed on a waiting list for the pending cohort for which they originally applied. Once a cohort is full, applicants will be placed on a list for the following year.

Final (Capstone) Project

The program offers students the opportunity to select from one of five templates to complete their final Master's Project: Business Plan, Case Study, Traditional Thesis, Strategic Plan, and Program or Facility Design and Development. Each of these projects enables students to build upon and integrate their experiences into the curriculum. Also, these various approaches focus on planning, problem solving, decision making and understanding organizational structures that are characteristic of management positions for which the program is preparing students.

Mentorship Program

This program offers students the opportunity to choose a leader in the field as a mentor. The focus of the mentorship program is person-oriented rather than position-oriented, which differentiates it from an internship. Although graduate credit is awarded, completion of the mentorship program is in addition to the normal requirements for the master's degree. Students with minimal experience in the recreation and parks field may also be required to undergo a mentorship to help gain a greater understanding of the profession. Provisional students may be required to complete a mentorship.

Entrance Requirements

Completion of the baccalaureate degree at a regionally accredited institution of higher education with an undergraduate cumulative grade point average of a 3.0 on a 4.0 scale and proper undergraduate preparation for study are required for entrance to the program. Provisional status can be granted to students with less than a 3.0 on a case-by-case basis. Students having completed 15 or more graduate credits may use their graduate GPA in lieu of the undergraduate GPA. In addition to the general admission requirements, students are required to meet the criteria listed below. If any deficiency courses are required, they will be assigned by the coordinator upon entry into the program.

A. Professional Experience

The program is designed for professionals with experience in the parks and recreation field. Generally, there are three avenues of entry into the program.

1. Students should have the equivalent of 3 year's experience in the recreation and parks field.
2. Students with a minimum of 3 year's professional experience in allied fields who are interested in making a career shift may also apply. A field experience, mentorship and/or deficiency courses may be required of these students.
3. Although the program is designed for professionals working in the field, a limited number of recent graduates from baccalaureate programs may be admitted based on the combination of professional experiences, volunteerism and extra-curricular involvement of the applicant and on the composition of the students currently in the program.

Coordinator:

Dr. Maureen Dougherty
Department of Recreation and Parks
Management
443-840-4603 or 301.371.6886
mdougherty@frostburg.edu

B. Recommendations

Three letters of recommendation are required reflecting the student's professional and academic background.

C. Career Goals

The applicant needs to include a statement of career goals and how the master's degree program relates to these goals.

D. Resume

The applicant is required to submit a current resume or professional vita.

E. Official Transcript(s)

Students should submit an official sealed copy of all prior transcripts that contributed to the completion of the bachelor's degree as well as any graduate-level coursework previously taken.

F. Completed FSU Graduate Program Application

Students will need to complete the Graduate Program Application available through www.frostburg.edu/grad.

G. Technology Verification Form

Students will need to complete the technology verification form as part of the online supplemental application process to determine appropriate level of technology awareness and experience in addition to verification of access to computer, high-speed connection and available computer software.

H. On-site Orientation

Students are encouraged to attend a 3-day orientation at FSU's main campus prior to the start of the new cohort. This orientation will typically take place the first Thursday-Saturday of August. Students will make their own travel arrangements but a lodging and meals package will be offered. Students will also be encouraged to return to campus the day prior to their graduation to present their final projects to the campus community. Although this is encouraged, it is not a requirement of the program.

Program Description

The program consists of 10 courses requiring 30 credit hours. The program is divided into four blocks: foundations, resource management, administration and research. A fifth block, supplemental courses, includes deficiency courses (e.g., Field Experience) and courses that are not required toward the completion of the degree but enhance the student's program (e.g., Mentorship Program).

Foundations (3 credits)

RECR 611 Concepts and Foundations of Leisure

Planning & Management of Natural Resources (3 credits)

RECR 641 Management, Conservation and Protection of Open Space Resources

Administration (15 credits)

RECR 651 Organizational Behavior and Leadership in RPM

RECR 652 Fiscal Management in RPM

RECR 653 Communications and Organizational Decision Making in RPM

RECR 654 Developing Promotional Information Systems in RPM

RECR 655 Current Management Issues in RPM

Research (9 credits)

RECR 681 Research Methods and Evaluation in RPM

RECR 683 Thesis Preparation

RECR 700 Research Project or Thesis (3 credits)

Supplemental Courses

RECR 593 Field Experience in RPM (3-6 credits)

RECR 694 Mentorship Program in RPM (3-6 credits)

RECR 699 Individual Research in RPM (3-6 credits)

Minimum credit hours: 30

Course Descriptions

Art

- ART 500 Introduction to Art Criticism** 3 cr.
Problems of describing, analyzing, interpreting and evaluating art. Attention given to the history, purposes, conceptual bases and methods of art criticism as well as to critical performances.
- ART 508 20th Century Art History** 3 cr.
Survey of major developments from post-impressionism to post-modernism and the contemporary: Europe and the United States. Every spring.
- ART 580 Computer Graphics** 3 cr.
Introduction to terminology, methods, processes, craft and technology of the computer graphics designer; emphasis on theory and application of the Macintosh computer system. May be taken only 1 time for credit. Two hrs. lecture and 2 hrs. lab.
- ART 590 Special Topics in Art** 1-6 cr.
Concepts or media not regularly presented, using special resources. Lecture and studio or lecture only. Offered irregularly. *Prerequisite: permission of instructor.*
- ART 602 Philosophy of Art Education** 3 cr.
Analysis and evaluation of major competing philosophic systems. Attention to their value structures in relation to alternative theories and conceptions of art education.
- ART 605 Curriculum in Art Education** 3 cr.
Concepts, problems and issues in curriculum theory in educational programs. Development of curricula for public school art instruction.
- ART 607 Advanced Graphic Design Workshop** 3 cr.
Fundamentals of applied design. Graphics problems in advertising and commercial art, class problems in communication arts, commercial processes and techniques, use of professional materials. Two hrs. lecture, 2 hrs. lab. Repeatable 3 times.
- ART 612 Advanced Drawing Workshop** 3 cr.
Studio investigation of drawing. Critical, conceptual and technical skills with content chosen by student and instructor. Two hrs. lecture, 2 hrs. lab.
- ART 621 Advanced Painting Workshop** 3 cr.
Studio problems in painting. Emphasis on independent creative work. Seminar, discussion and criticism. Two hrs. lecture, 2 hrs. lab. Repeatable 3 times.
- ART 622 Advanced Ceramics Workshop** 3 cr.
Study of ceramic form as it relates to utilitarian and environmental situations. The interaction of human scale with functional ceramic design. Seminar, discussion and criticism. Two hrs. lecture, 2 hrs. lab. Repeatable 3 times.
- ART 632 Advanced Printmaking Workshop** 3 cr.
Studio investigation of printmaking. Critical, conceptual and technical skills as applied to the aesthetics of printmaking. Two hrs. lecture, 2 hrs. lab. Repeatable 3 times.
- ART 635 Advanced Photography Workshop** 3 cr.
Studio investigation of photography. Critical, conceptual and technical skills. Two hrs. lecture, 2 hrs. lab. Repeatable 3 times.
- ART 640 Advanced Sculpture Workshop** 3 cr.
Studio problems in sculpture. Use of traditional and contemporary forming techniques in independent creative work. Two hrs. lecture, 2 hrs. lab. Repeatable 3 times.
- ART 690 Special Topics in Art** 3 cr.
Concepts or media not regularly presented, using special resources. Lecture and studio or lecture only. Variable. *Prerequisite: permission of instructor.*
- ART 698 Readings in Art Education** 3 cr.
Advanced individualized study in art education scholarship. Seminars, readings, research. *Prerequisite: completion of Professional Core.*

All courses are offered on a variable schedule unless otherwise noted.

ART 699 Individual Research in Art Education 3 cr.

Advanced development of an investigative or creative potential. Repeatable 1 time. *Prerequisites: graduate art student and recommendation of graduate faculty member.*

ART 700 Master's Research Paper or Project 3 cr.

Individual investigation or project related to the area of concentration and professional education. Independent Study form to be submitted with registration.

Biology

Note: Equivalent courses taken at other institutions will be considered as prerequisites.

BIOL 502 Evolution 3 cr.

Theories, evidences and mechanisms of evolution. Three hrs. lecture. Fall of odd-numbered years. *Prerequisite: BIOL 150 or permission of instructor.*

BIOL 504 Histology 4 cr.

Microscopic structure and function of tissues and selected organs of vertebrates. Basic laboratory preparative techniques and tissue recognition. Two hrs. lecture, two 2-hr. labs. Spring of even-numbered years.

BIOL 506 Ornithology 4 cr.

Anatomy, physiology, behavior, ecology and evolution of birds. Laboratory emphasis on identification of regional birds at the species and family level. Two hrs. lecture, one 4-hr. lab. Binoculars required. Every spring. *Prerequisite: vertebrate zoology or permission of instructor.*

BIOL 507 Biological Systematics 3 cr.

Principles, concepts and methodologies used in systematic biology. Methods for reconstructing the evolutionary relationships of plant and animal taxa (including phenetic and cladistic analyses). Procedures for description, classification and analysis of earth's biodiversity. Three hrs. lecture. Spring of odd-numbered years. *Prerequisite: BIOL 402 or permission of instructor.*

BIOL 510 Plant Diseases 3 cr.

Nature, cause and control of disease in plants. Plant pathogens: nematodes, viruses, bacteria and fungi in greenhouse, field and forest plants. Laboratory on preparing specimens according to phytopathological principles. Two hrs. lecture, one 2-hr. lab. Spring of odd-numbered years.

BIOL 511 Invertebrate Zoology 4 cr.

Structure, physiology, life history and natural history of invertebrate groups. Emphasis on local fauna. Two hrs. lecture, two 2-hr. labs. Every spring.

BIOL 512 General Parasitology 4 cr.

Principles of parasite structure, function and host-parasite relations. Two hrs. lecture, two 2-hr. labs. Fall of even-numbered years.

BIOL 514 Quantitative Analysis of Vertebrate Populations 3 cr.

A survey of quantitative techniques used to describe, analyze and model vertebrate population phenomena and interactions among populations. Every spring. *Prerequisites: MATH 120 and graduate standing.*

BIOL 517 Ichthyology 3 cr.

The study of fishes with emphasis on structure and function, development, behavior, ecology and systematics. Two hrs. lecture, one 2-hr. lab. Every fall.

BIOL 520 Fish Management and Culture 3 cr.

Contemporary problems encountered with Fisheries Management. Study of fish culture; alternatives of commercial harvest and culture. Three 1-hr. lectures and one 3-hr. lab. Field trips to be arranged. Every spring. *Prerequisites: MATH 209 Introduction to Probability and Statistics or permission of instructor.*

BIOL 521 Sample Design and Analysis of Plant Communities 3 cr.

The ecology of plant communities in the mid-Atlantic; plant community concepts and attributes; environmental factors influencing the distribution and abundance of plants:

light, temperature, fire, soil, water, methods of sampling vegetation; quantitative analysis of vegetation data; multivariate methods of data interpretation, including classification and ordination; collection and interpretation of field data; emphasis on modern computer methods. Lecture/lab. Every fall. *Prerequisites: BIOL 314 and BIOL 340.*

BIOL 522 Herpetology 3 cr.

The structure, behavior, ecology, evolution and taxonomy of amphibians and reptiles. Laboratory emphasis on identification, anatomy and ecology of local species; techniques of collecting; estimating population sizes, and home ranges. Two hrs. lecture, one 3-hr. lab. Every spring. *Prerequisite: BIOL 150.*

BIOL 523 Mammalogy 4 cr.

The structure, taxonomy, behavior, ecology, evolution and public health significance of mammals and history of the science of mammalogy. Laboratory emphasizes anatomy, identification, capture techniques, habitat analysis and home-range and population characterization. Three hrs. lecture, one 3-hr. lab. Every fall. *Prerequisite: BIOL 150.*

BIOL 527 Comparative Anatomy 4 cr.

Emphasis on structural relationships among fish, amphibians, reptiles, birds and mammals based on the evolution and development of organ systems. Dissection of representative chordates. Two hrs. lecture, two 2-hr. labs. Every semester. *Prerequisite: BIOL 150.*

BIOL 530 Limnology 4 cr.

The study of inland waters; physical, chemical and biological aspects. An overview of hydrobiology. Laboratory emphasis on collection and analysis of data from aquatic environments. Graduate-level credit requires supplemental activity (usually a project and written report) by student. Two hrs. lecture, one 4-hr. lab per week. Every fall. *Prerequisite: BIOL 340.*

BIOL 535 Molecular Biology 4 cr.

Modern molecular concepts and techniques such as molecular cell function, DNA replication, PCR, protein synthesis, restriction enzyme analysis, DNA sequencing and DNA fingerprinting. Two hrs. lecture, two 2-hr. labs per week. Every spring. *Prerequisite: BIOL 304.* Course not repeatable.

BIOL 536 Electron Microscopy for Biologists 4 cr.

Principles and techniques of electron microscopy; thin and thick sectioning, positive staining, freeze etch. Use of transmission and scanning electron microscopes for animal and plant tissues, micro-organisms and particulates. One hr. lecture, two 3-hr. labs. Spring of odd-numbered years. Enrollment limited to 6, preference to students with an active research project. *Prerequisites: BIOL 310, Physics 216, Chemistry 302; cumulative GPA 3.0; permission of instructor.*

BIOL 537 Molecular Biology Seminar 1 cr.

Current topics in molecular biology presented by students, faculty and invited speakers coupled with in-depth analysis and discussion. Repeatable for maximum of 4 credits if topics are substantially different. Fall semester. *Prerequisites: graduate standing; BIOL 435 or permission of instructor.*

BIOL 538 Biotechnology Laboratory 3 cr.

Advanced techniques in molecular biology. Topics vary depending on instructors. Topics may include cell culture methods, PCR and DNA sequencing, immunocytochemistry, electrophoretic separation and analysis. One 1-hour lecture and two 2-hour labs. Spring. *Prerequisites: BIOL 435/535 or permission of the instructor.*

BIOL 539 Environmental Toxicology 3 cr.

An interdisciplinary study of the major classes and properties of pollutants, ecotoxicology testing methods and their effects on living organisms and the ecosystem. Two hrs. lecture, 2 hrs. lab. Variable. *Prerequisite: one year general biology.*

BIOL 540 Developmental Biology 4 cr.

A classical and modern study of processes producing structural and functional changes during the development of plants and animals. Three hrs. lecture, 2 hrs. lab. Fall, even-numbered years. *Prerequisite: one year general biology.*

BIOL 550 Ecology and Management of Wildlife Populations 3 cr.

Study of factors that determine the distribution and abundance of wildlife populations and current management practices used to manipulate wildlife populations. Two - three field

trips will be used to gain knowledge of regional management practices. Three hrs. lecture. Fall. *Prerequisite: BIOL 406, 423 or 426.*

BIOL 600 Methods of Research in Biological Sciences 2 cr.

Understanding the scientific method, improving scientific writing skills and practical experience in computer analysis of biological data. Major projects include writing a thesis research proposal and a scientific paper. Every fall. *Prerequisite: MATH 680 (or concurrent enrollment) or instructor's permission with a basic knowledge of statistics.*

BIOL 601 Laboratory Teaching Experience 2 cr.

Methods and experience of instruction in the introductory biology laboratory, including stimulating interest, presenting pre-lab instruction, conducting laboratory exercises, generating discussion, writing quizzes and laboratory practical examinations, and assessing student performance. Fall, spring. *Prerequisite: graduate standing in Wildlife/Fisheries Biology or Applied Ecology and Conservation Biology.*

BIOL 609 Plant Ecology 3 cr.

Ecological principles and relationships at the organism, population and community levels. The plant and the ecosystem. Field trips and field analysis of plant communities. One hr. lecture and 4 hrs. lab. Spring of odd-numbered years. *Prerequisites: BIOL 340, 314 or 603, 8 hrs. general chemistry or permission of instructor.*

BIOL 610 Animal Physiology 3 cr.

Physiological systems and experiments on laboratory animals. Two hrs. lecture and 2 hrs. lab. Fall of even-numbered years. *Prerequisites: 1 year college chemistry and major in biology or chemistry.*

BIOL 612 Animal Ecology 3 cr.

Ecological principles and relationships of organism, population and community levels. The animal's relation to ecosystems. Three hrs. lecture. Spring of even-numbered years. *Prerequisites: 1 year bioscience or zoology, BIOL 411, 340 and 8 hrs. general chemistry or permission of instructor.*

BIOL 613 Plant Physiology 3 cr.

Theory and techniques. Cell ultrastructure and function, translocation of metabolites, plant growth regulators, photobiology and the physiology of development. Two hrs. lecture, 2 hrs. lab. Spring of even-numbered years. *Prerequisites: BIOL 303, 1 year inorganic chemistry, 1 year organic chemistry.*

BIOL 621 Terrestrial Biogeochemistry 3 cr.

Terrestrial biogeochemistry focuses on the interactions between ecology and geochemistry. Concepts, theory and applications through readings, lectures and independent projects. Three hrs. lecture. Spring of even-numbered years.

BIOL 622 Ecosystem Ecology 3 cr.

Overview of ecosystem ecology concepts, addressing multiple topics, including ecosystem definition, primary/secondary productivity, ecosystem energetics, trophic structure, stability/resilience, nutrient cycling, ecosystem management and the importance of ecological models. Three hrs. lecture. Fall of even-numbered years.

BIOL 623 Landscape Ecology 4 cr.

The effects of spatial pattern of resources; its causes, development and importance for ecological processes. Concepts, methods and applications of landscape ecology through readings of classic and contemporary literature, lectures, lab exercises designed to provide "hands-on" experience with quantitative methods and completion of an independent project. Three hrs. lecture, one hr. lab. Fall of even-numbered years. *Prerequisites: course in general ecology; permission of instructor.*

BIOL 625 Wildlife Habitat Ecology and Analysis 3 cr.

Concepts and measurement of wildlife-habitat relationships, and the management of wildlife habitat. Three hrs. lecture. Fall of odd-numbered years. *Prerequisite: graduate standing.*

BIOL 626 Wildlife Habitat Ecology and Analysis Laboratory 1 cr.

Techniques used in wildlife habitat analysis and evaluation, including plot/plotless sampling, multivariate approaches and use of remotely sensed land data. One 3-hr. lab. Fall of odd-numbered years. *Prerequisite: graduate standing.*

BIOL 631 Stream Ecology**3 cr.**

Ecology of lotic systems common to North America. Stream hydrology, water chemistry, fish and invertebrate ecology, nutrient dynamics, restoration ecology of impaired freshwater systems and conservation biology of freshwater species. Three hrs. lecture and two optional field trips with laboratory exercises. Fall of even-numbered years. *Prerequisites:* BIOL 340, 411 and 430 or permission of instructor.

BIOL 632 Land Margin Interactions**4 cr.**

Integrative principles of landscape ecology, estuarine ecology and coastal oceanography, emphasizing biogeochemical processes and transformations as water moves through the watershed, estuary and into the ocean. Using local examples from the Chesapeake region, themes will include the water cycle (hydrology for land; circulation for estuaries and coastal ocean); carbon, nitrogen and phosphorus cycles; and anthropogenic effects such as land use change and pollution. Four hrs. lecture and two required field trips. Fall of odd-numbered years.

BIOL 640 Population and Conservation Genetics**3 cr.**

Importance of genetics in the management of game and non-game species will be emphasized with special reference to genetic management of threatened, rare or endangered species. Two hrs. lecture, one 3-hr. lab. Fall. *Prerequisite:* one course in genetics.

BIOL 641 Conservation Biology and Reserve Design**3 cr.**

Examination of modern topics in conservation biology emphasizing impacts of habitat insularization and related landscape perturbations on population dynamics, social structure, genetic diversity and ecological interactions of organisms. Application of these factors in the design of nature reserves and maintenance of biodiversity. Lecture. Fall only of odd-numbered years. *Prerequisite:* graduate standing.

BIOL 643 Ethics, Economics and Politics in Conservation**2 cr.**

An examination of political and economic considerations associated with protection of endangered species and special habitats. Case histories of conflicts among competing forces for natural resources. Fall only of odd-numbered years.

BIOL 650 Special Topics in Fisheries/Wildlife/Applied Ecology and Conservation Biology**2-4 cr.**

Course content and credit hours vary depending on the course topic and instructor. Course topics will include Ecology, Evolution and Management of Tropical Fishes; Techniques in Field Ecology; Advanced Animal Behavior; Aquatic Entomology; and Conservation and Management in Tropical Ecosystems. Consult director of AL or chair of Biology for current offerings. Repeatable for maximum of 12 credits if topics are substantially different. Fall, spring.

BIOL 694 Graduate Seminar in Fisheries/Wildlife/Applied Ecology and Conservation Biology**1 cr.**

Readings and discussion of current subjects in the fields of ecology and management. Student presentations coupled with in-depth analysis and discussion of the scientific merit and political ramifications of biological research. Repeatable for maximum of 4 credits if topics are substantially different. Offered irregularly.

BIOL 699 Individual Research in Fisheries/Wildlife/Applied Ecology and Conservation Biology**2-4 cr.**

Topic and study outline to be approved by the Biological Science graduate program coordinator prior to registration. Repeatable for credit each semester of enrollment. Fall, spring. *Prerequisites:* graduate standing, consent of instructor and consent of chair of the Biology Department or director of AL.

BIOL 710 Thesis**1-9 cr.**

Activities related to the production of a research thesis on an approved topic. Graded P/N. Fall, spring, summer.

Chemistry

CHEM 511 Inorganic Chemistry**3 cr.**

Theories of bonding, symmetry concepts, group theory, reaction mechanisms, spectroscopy, structure, stereochemistry and biological aspects. Three hrs. lecture. *Prerequisite:* CHEM 441 or permission of instructor.

CHEM 541 Physical Chemistry Lecture I**3 cr.**

Theory and applications of the principles of physical chemistry. Equilibria, gas laws, thermodynamics, electrochemistry, structures and properties. Three hrs. lecture. *Prerequisites:* 16 cr. in chemistry from the following: CHEM 101, 102, 201, 301, 302; MATH 227, 228 and 320 or 432; and Physics 215 and 216 or equivalent or permission of instructor.

CHEM 542 Physical Chemistry Lecture II**3 cr.**

Quantum theory, statistical thermodynamics, chemical dynamics, spectroscopy and structures. Three hrs. lecture. *Prerequisite:* CHEM 541.

CHEM 545 Physical Chemistry Laboratory I**1 cr.**

Experimental physical chemistry. One 3-hr. lab. *Prerequisite or corequisite:* CHEM 541.

CHEM 546 Physical Chemistry Laboratory II**1 cr.**

Continuation of CHEM 545. One 3-hr. lab. *Prerequisite or corequisite:* CHEM 542.

CHEM 555 Biochemistry I**3 cr.**

The chemistry and metabolism of biological compounds, biochemical thermodynamics, enzyme mechanisms and kinetics. Three hrs. lecture. Fall semester. *Prerequisites:* CHEM 301 and 302; BIOL 149 or permission of the instructor.

CHEM 557 Biochemistry II**3 cr.**

This course is a continuation of Biochemistry I. Metabolic processes and their conservation among widely divergent organisms. Cell processes, their interrelation and regulation. Biochemical techniques and their applications to a variety of current biological problems. Three hrs. lecture. Spring semester. *Prerequisite:* CHEM 455.

CHEM 560 Environmental Chemistry**3 cr.**

This course will investigate the chemical nature of the environment. It will develop the chemical interactions found in the atmosphere, hydrosphere, lithosphere and biosphere. Considerations of energy and energy usage will also be discussed. *Prerequisites:* Completion of CHEM 101 and 102, and any one of the following courses: BIOL 430, GEOG 432, CHEM 320 and 321.

Communication Studies

CMST 590 Special Topics in Communication Studies**1-6 cr.**

Research or applied experience on an announced selected topic. May be repeated to a maximum of 6 credits. *Permission of department required.*

CMST 699 Individual Research in Communication Studies**1-6 cr.**

Individual research in a topic related to communication. Topic and study outline to be approved by department chair prior to registration. Written and oral reports required. Can be repeated to a total of 6 credits.

Computer Science

NOTE: FSU graduate students may take any computer science graduate courses by permission of instructor.

COSC 510 Data and Computer Communication 3 cr.

Fundamentals of data communications. Transmission media characteristics, data encoding and multiplexing. Causes of transmission errors and data link control. Circuit switching, message packing and packet switching. Local area networks, introduction to terrestrial and satellite networks, ISDN and future trends. *Prerequisite: COSC 365 or permission of instructor.*

COSC 520 Robotics and Computer Control 3 cr.

Introduction to field of robotics: applications, safety, sensors, Robotics Languages Model for Computer-Aided Design (CAD), speech recognition and generation. Integration of robots with artificial intelligence. *Prerequisites: PHYS 215 or PHYS 261, COSC core courses or permission of instructor.*

COSC 530 Computer Education 3 cr.

A practical study of contemporary topics for students with a computing background. Emphasis on development and use of training/teaching materials. *Prerequisite: permission of instructor.*

COSC 550 Programming Language Structures 3 cr.

Features of existing programming languages and underlying concepts. Syntax and semantics, simple statements, grouping of statements, scopes and storage allocations, subroutines. List processing and string manipulation languages. *Prerequisite: COSC 310 or permission of instructor.*

COSC 555 Artificial Intelligence 3 cr.

An introduction to knowledge representation and inference: topics include logic, semantic networks, frames and rule-based reasoning. Natural language processing; topics include pattern recognition, pattern association and computer vision. *Prerequisite: COSC 310 or permission of instructor.*

COSC 560 Operating Systems Concepts 3 cr.

Detailed study of operating systems concepts. Process management, scheduling, time slicing, concurrency, mutual exclusion, semaphores, resource management, memory mapping, virtual systems, mass storage, file systems. Case studies of operating systems. *Prerequisites: COSC 201 and COSC 365 or permission of instructor.*

COSC 565 Computer Systems Architecture 3 cr.

Architecture of large computing systems. Instruction set architecture and RISC. Design of high-speed arithmetic units, I/O subsystems, DMA and channels. Interrupt structures. Horizontal vs. vertical microprogramming. Memory system hierarchy with emphasis on cache, virtual memory and interleaving. Introduction to parallel processing and advanced architectural trends. *Prerequisite: COSC 365 or permission of instructor.*

COSC 570 Compiler Designs and Constructions 3 cr.

Detailed study of the concepts and techniques used in design and construction of a compiler. Topics include lexical analysis, syntactic and semantic analysis, intermediate code generation, final code generation and optimization techniques. Each student will be required to design and implement a functional compiler or interpreter for a given language. *Prerequisites: COSC 310 and COSC 365 or permission of instructor.*

COSC 575 Interactive Computer Graphics 3 cr.

Concepts of computer graphics. Terminology and programming primitives, raster vs. vector hardware, interaction devices, software packages, geometrical transformations, two- and three-dimensional viewing, hidden line and surface removal, object hierarchy. *Prerequisites: COSC 310 and COSC 350 or permission of instructor.*

COSC 580 Knowledge-Based Information Systems 3 cr.

Concepts of knowledge-based systems with an emphasis on expert systems. Topics include production systems, building of knowledge-based systems and future trends with expert systems. *Prerequisite: COSC 380 or permission of instructor.*

COSC 585 Theory of Computation 3 cr.

Basic theoretical principles embodied in formal languages, automata, computability and computational complexity. Emphasis is placed on developing formal description of

computers and computational processes, and practical implications of theoretical results. *Prerequisite: COSC 310 or permission of instructor.*

COSC 591 Seminar in Computer Science 3 cr.

Group study of advanced topics under faculty supervision. Departmental approval is required. *Prerequisite: department approval.*

COSC 599 Individual Problems in Computer Science 3 cr.

Independent study of advanced topics under faculty supervision. Departmental approval is required. Repeatable for maximum of 6 credits; up to 3 credits count towards degree. *Prerequisite: department approval.*

COSC 600 Computer Programming Concepts 3 cr.

Object oriented programming and programming design; sequential, selection and iteration statements; objects and relationship among objects, abstraction, encapsulation and hierarchy. *Prerequisite: permission of instructor.*

COSC 601 Digital Logic and Computer Design 3 cr.

Basic switching theory. Design and analysis of combinational logic circuits and synchronous sequential systems. Minimization of techniques. Programmable logic and basic computer architecture. Register transfer language. Memory decoding, microprogramming and bus structure operation. Detailed study of an actual simple minicomputer or microcomputer system. Students are required to implement a project. *Prerequisite: Admission to the Applied Computer Science master's program.*

COSC 610 Advanced Object-Oriented Data Structures and File Organization 3 cr.

Object-oriented data structures such as linear data structures recursions, trees, graphs, searching and sorting algorithms, and file organizations using object-oriented programming language. *Prerequisite: admission to Applied Computer Science master's program.*

COSC 620 Security in Computing 3 cr.

Principles and practices of computer security in various computing environments, with the focus on computational methods providing secure computing and Internet communication. Topics include security threats in communication systems and information systems; cryptography technologies including conventional substitution/transposition codes; block ciphers and advanced encryption standards; distribution of secret key over the Internet; principles of public-key cryptography; authentication and digital signature; network security such as IPSec, SSH, Web and e-mail security; system security such as firewall; OS security and hardware security. *Prerequisite: admission to Applied Computer Science master's program.*

COSC 625 Advanced Software Engineering 3 cr.

Design and implementation of software using a formal specification language. Topics include management implications, software cost estimation, defect testing, software engineering environments. *Prerequisite: admission to Applied Computer Science master's program.*

COSC 630 Web Development and Programming I 3 cr.

Fundamentals of Web programming and Web technologies. Topics include Web design and implementation using JavaScript, Java Beans and XML. Developing interactive, secure and powerful projects for the Web. *Prerequisite: admission to Applied Computer Science master's program.*

COSC 631 Web Development and Programming II 3 cr.

Advanced Web programming and Web technologies concepts. Topics include Perl programming, server installation and configuration, PHP, secure sockets layer and Web services. Offered once every year and a half. *Prerequisites: admission to Applied Computer Science master's program and COSC 630.*

COSC 635 Network and Data Communications I 3 cr.

Basic elements of modern computer and telecommunications networks. A hybrid five-layer reference model resembling the popular TCP/IP model will be discussed. In each layer, the state-of-the-art hardware and software technologies are introduced. These include, for example, network programming in the Application Layer, TCP/UDP in the Transport Layer, Unicast and Multicast protocols in the Network Layer, Ethernet/TDM/WDM in the Data Link Layer, fiber-optic and Mobile/Cellular in the Physical Layer. *Prerequisite: admission to Applied Computer Science master's program.*

COSC 636 Network and Data Communications II 3 cr.

Advanced topics, enabling technologies of networks and data communications. Introduction to important topics, including distributed networks, IPV6 and advanced routing protocols, network reliability, network security and converged network management. Enabling technologies for typical modern networks, including wireless/mobile networks, multimedia networking and optical networks will also be covered. *Prerequisites:* admission to Applied Computer Science master's program and COSC 635.

COSC 640 Database Management Systems I 3 cr.

Database design and implementation, data models, database programming using relational database management systems as well as object-oriented databases. An implementation of a comprehensive project using a commercial DBMS. *Prerequisite:* admission to Applied Computer Science master's program.

COSC 641 Database Management Systems II 3 cr.

The function of database administration. Data recovery, security, concurrency and integrity. Database storage and advance database programming. A project implementation is required. *Prerequisites:* COSC 640 and admission to Applied Computer Science master's program.

COSC 645 Data Mining 3 cr.

Overview of data mining and its application in business. Topics include data-mining models such as decision trees, genetic algorithms, neural nets, agent network technology; data-mining process; and discussion of practical available data-mining tools. *Prerequisite:* admission to Applied Computer Science master's program.

COSC 646 Data Warehousing 3 cr.

A hands-on approach to the major issues facing data warehouse developers. Discussion of analysis design and management of data warehousing. Application of data warehouse in a business environment using one or more data warehouse systems. *Prerequisite:* admission to Applied Computer Science master's program.

COSC 647 Database Security 3 cr.

A comprehensive, in-depth discussion of the database security, including models, systems architectures and standards. Security in object-oriented databases and in statistical databases and auditing. *Prerequisites:* admission to Applied Computer Science master's program and COSC 641.

COSC 649 Database Administration 3 cr.

Discussion of the database administration issues. Topics include installation, migration, upgrades, networking, security, backup and recovery, performance tuning, capacity planning and GUI development tools. *Prerequisites:* admission to Applied Computer Science master's program and COSC 641.

COSC 690 Special Topics in Database Management Systems 3 cr.

Study and discussion of the most recently developed topics in Database Management Systems. Repeatable for maximum of 6 credits if topics are substantially different; 3 for degree. *Prerequisites:* admission to Applied Computer Science master's program and COSC 640.

COSC 691 Special Topics in Data Mining and Data Warehousing 3 cr.

A study and discussion of topics in the latest development in data mining and data warehousing. Students are required to write a paper or implement a project related to the topic. Repeatable for maximum of 6 credits if topics are substantially different; 3 for degree. *Prerequisites:* admission to Applied Computer Science master's program and COSC 645 and COSC 646.

COSC 700 Master Research Paper or Project 3-9 cr.

Independent research paper or project related to the area of concentration. The topic of the paper or project description must be approved by the department graduate committee prior to registration. Every semester. *Prerequisites:* admission to Applied Computer Science master's program and COSC 610, COSC 620 and COSC 625.

Economics

ECON 510 Resource & Environmental Economics 3 cr.

Economic analysis of problems and policies affecting natural resource industries and the environment. Economic framework, mineral, forest, energy industries and environmental use and misuse are analyzed. Fall of even-numbered years. *Prerequisite:* Economics 202 or permission of instructor.

ECON 598 Readings in Economics 3 cr.

Selected readings for primarily independent research in a field not covered by regular courses. Summaries of readings and findings compiled in a written research report. *Prerequisites:* ECON 201, 202, 351, 352, and permission of instructor and department chair.

Education

CUIN 518 Teaching Written Composition Methods in the Elementary School 3 cr.

Language acquisition and writing, including motivation and evaluation; grammar, spelling and editing skills.

CUIN 520 Assessment and Measurement in Early Childhood Education 3 cr.

A study of instruments for child development and early childhood program evaluation. Analysis of early identification programs, child-find procedures, normative data, intelligence and language tests.

CUIN 521 Child Development for the Early Childhood Educator 3 cr.

Educational implications for the child from birth to age 8, including the effects of early stimulation, critical periods in the child's life, species specific behaviors and environmental variables affecting the child's development.

CUIN 605 National Board for Professional Teaching Standards Pre-Candidacy 3-6 cr.

Candidates are introduced to the National Board for Professional Teaching Standards. During the semester, they will complete the fieldwork that will allow them to collect and organize the evidence needed to formally apply for certification. The instructor/mentor will assist individuals in preparing specific content and pedagogy portfolio materials.

CUIN 608 Middle School Curriculum 3 cr.

The middle school movement, the nature of the middle school student, alternative school programs, strategies for implementation.

CUIN 609 Elementary School Curriculum 3 cr.

Trends, issues and determinants of the elementary content areas; organizational patterns and curriculum models; application of a system for curriculum development; instructional modes; and process of curriculum planning. *Prerequisite:* EDUC 640.

CUIN 614 Elementary School Mathematics Programs 3 cr.

Content and organization of elementary school mathematics.

CUIN 615 Elementary School Science Programs 3 cr.

A survey of current elementary school science programs available for use in grades K-8. A review of the science programs rationale, organizational structure, content, methodology and evaluational system is emphasized. Methods of program identification, selection techniques, implementation and continuing evaluation are considered. The research seminar format is utilized in this course.

CUIN 616 Introduction to Science Education 3 cr.

Evolutions, philosophies, purposes, goals and objectives; comparative science education, practical and research literature; and professional organizations.

CUIN 618 Elementary School Language Arts Program 3 cr.

The content, organization, materials and techniques for teaching elementary children English usage, spelling, oral and written composition, manuscript and cursive writing, and reading. The integration of language arts in the elementary curriculum.

- CUIN 621 Elementary School Social Studies Programs** 3 cr.
Content of elementary school social studies and the various methods of instruction and materials.
- CUIN 622 Workshop in Elementary Language Arts** 3 cr.
Developing a model and preparing instructional materials to demonstrate the interrelatedness of the elementary language arts to the Curriculum and Instruction core courses. Design and construction of educational materials for a particular age congruent with current educational theory. Presentation and sharing of individual work in a seminar. *Prerequisite: CUIN 609.*
- CUIN 623 Foundations of Early Childhood Education** 3 cr.
History and philosophy of early childhood education, model programs designed to implement various theories, research on the effects of model programs and current trends and issues affecting and challenging the early childhood educator.
- CUIN 624 Parent Education** 3 cr.
Techniques used to help caregivers in the task of child rearing. Sociology of parenting, parent support services, methods of implementing study and discussion groups, and techniques employed in operating home-based child programs.
- CUIN 626 Early Childhood Teaching Methodology** 3 cr.
Analysis of the master's level teaching techniques, including environmental analysis techniques, early stimulation procedures, toy and teaching apparatus evaluation, techniques for utilizing and extending play and specific techniques to enhance communication and self-expression.
- CUIN 639 Instructional Systems Design** 3 cr.
Development of competencies related to systems approach to instructional planning, foundations of instructional design, instructional objectives, alternate instructional models, preparation of instructional materials, strategies for implementation and evaluation of instructional systems.
- CUIN 649 Curriculum Evaluation** 3 cr.
The process of curriculum evaluation: The collection, organization, analysis and reporting of information essential to decision making. Models and strategies.
- CUIN 660 Secondary School Curriculum** 3 cr.
Trends, issues and determinants of the secondary content areas, including organizational patterns and curriculum models, application of a system for curriculum development, instructional modes and the process of curriculum planning.
- ECED 538 Early Childhood Classroom Management** 3 cr.
For the early-childhood teacher: advanced teaching skills in nurturing the young child's social experiences, self-discipline, independence and creativity; arranging play experiences, organizing physical space, communication with children.
- ECED 542 Administration and Supervision of Early Childhood Programs** 3 cr.
Administrative and supervisory responsibilities for the early-childhood educator in providing quality programs for young children. *Prerequisite: permission of instructor.*
- EDAD 611 Administration in the Elementary School** 3 cr.
Educational leadership of the elementary school: responsibilities, philosophies and techniques of the principal; student activities and supporting services; necessary technical skills; reading in the field; professional organizations, literature and ethics in elementary administration.
- EDAD 612 Administration in the Secondary School** 3 cr.
Educational leadership of the secondary school: responsibilities, philosophies and techniques of the principal; student activities and supporting services; necessary technical skills; reading in the field; professional organizations, literature and ethics in secondary administration.
- EDAD 628 School Law** 3 cr.
Legal bases of education, including hiring and dismissal of personnel, tenure, staff liability, contractual rights and relationships, and rights of staff and clients. Spring, summer.

- EDAD 640 Accountability and Data-Driven Decision Making in Public Education** 3 cr.
Theoretical background and practical considerations for planning and implementing data-driven decision-making processes in schools and school districts. Basic concepts of developing efficient, reliable data resources and choosing appropriate analytical approaches to meet the diverse needs of students. Variable.
- EDAD 641 Educational Leadership** 3 cr.
Developmental leadership theory and strategies.
- EDAD 642 Organization and Administration of Public Schools** 3 cr.
Theories and concepts: societal forces that affect educational administration; tasks of administration, role requirements, administrative process and division of responsibility; organizational variables; the administrator as an individual and leader; research; professional organizations; and ethics.
- EDAD 644 Public School Finance** 3 cr.
Theory, principles and general practices. The problems of financing education, budgeting, equalization, management of school funds, and the role of local, state and federal governments in the financing of public education.
- EDAD 646 Personnel Administration** 3 cr.
Managing human resources, including organization of the personnel functions; manpower functions of recruitment, selection and induction; appraisal and staff development; compensation and benefits; professional negotiations; and current trends in personnel administration.
- EDAD 650 Program Development** 3 cr.
Examination of planning models and development of skills to analyze and interpret human resource data. Students plan a human service program by locating and utilizing resources and by preparing implementation strategies and evaluation mechanisms.
- EDAD 693 Practicum in Administration—Supervision** 3 cr.
Supervised experience based on a problem identified by the student. Emphasis on the integration of learned administrative/supervisory skills. Administrative/supervisory responsibilities of limited depth for limited periods under joint college/school supervision. Problem areas must be submitted and approved prior to registration. Repeatable to 6 credits. *Prerequisite: approval of the chair of Educational Professions Department. Fall, spring.*
- EDAD 694 Practicum in Administration—Supervision II** 3 cr.
Continuation of EDAD 693 practicum. Supervised practicum in administration—supervision (see EDAD 693). Production and submission of standards-aligned portfolio. Every semester. *Prerequisites: approval of program coordinator and completion of EDAD 693.*
- EDSU 604 Supervision in the Elementary School** 3 cr.
Preparation, role and functions of the elementary supervisor, including application of principles of learning, instruction, curriculum and human relations skills. Development of technical skills.
- EDSU 605 Supervision in the Secondary School** 3 cr.
Preparation, role and functions of the secondary supervisor, including application of principles of learning, instruction, curriculum and human relations skills. Development of technical skills. Fall of even-numbered years.
- EDSU 643 Foundation of Educational Supervision** 3 cr.
Nature and scope of educational supervision, including human relations skills, technical skills, social systems as they relate to educational supervision, professional organizations, literature and ethics. Fall.
- EDSU 648 Supervision of Student Teachers** 3 cr.
Student teaching programs and the relationship of the public schools and colleges.
- EDUC 522 Logo: Educational Programming and Instructional Techniques** 3 cr.
Learn about Logo as a language for learning about computers, computer programming and thinking, and as a philosophy of education. Emphasis will be on learner-controlled and learner-directed explorations of intellectual problems of interest.

EDUC 523 AIDS: Information, Instruction and Counseling 3 cr.

Designed to facilitate learning current information about HIV and AIDS, prepare individuals to teach and/or give others correct information and provide basic training for those interested in becoming peer counselors for persons with, or exposed to, HIV/AIDS. Fall, summer.

EDUC 530 Technology Specialist in Education 3 cr.

Technology specialist in the school/school district. Includes practical issues for managing the technology infrastructure, managing and strategies for using local area network systems for classroom use, models for delivering staff development, process of school improvement, role in communication with public in building support for technology, issues facing technology leaders, emerging technologies.

EDUC 541 Classroom Management Strategies 3 cr.

A study of the elements of developmentally appropriate classroom management, including cultural variables, skills of effective teaching, major theorists' view of school management, character and values education, and the impact of school climate and organization. In addition, specific techniques for managing special problems and disruptive youth will be studied.

EDUC 544 Cooperative Learning Workshop: Level I 3 cr.

A study of cooperative learning through an analysis of the underlying theory and observation, planning and implementation of cooperative learning activities. Summer.

EDUC 545 Middle School Curriculum & Methods 3 cr.

The middle school movement, the middle school student and curriculum, teaching in the middle school, middle school organization. Every semester. *Prerequisite: Phase II admission or permission of department chair.*

EDUC 546 Using Databases for Critical Thinking 1 cr.

Use databases in learning to organize, access, manipulate and evaluate information. Learn to find and interpret information, find patterns and make inferences based on established patterns. Develop techniques for using databases in elementary and secondary curricula.

EDUC 547 Making Quality Instructional Materials 1 cr.

Learn to develop instructional activities based on a specific theme. Learn to use the computer to create instructional materials for these activities.

EDUC 548 Using Spreadsheets in Mathematics Education 1 cr.

Use spreadsheets to learn to explore relationships, predict outcomes, analyze information and draw conclusions. Learn to experiment and to explore concepts without having to perform tedious calculations. Develop techniques for using spreadsheets in elementary and secondary curricula.

EDUC 550 Art Education Methods for the Secondary Teacher 2 cr.

Curriculum, goals, content and organization of secondary art education. Theories of visual development and artistic development in behavior age-appropriate students; materials, resources and processes for teaching art; classroom management; and technology applications. One hr. lecture, 2 hr. lab. *Prerequisite: admission to MAT-Secondary program or permission of department chair.*

EDUC 551 Art Education Methods for the Elementary Teacher 2 cr.

Curriculum, goals, content and organization of secondary art education. Theories of visual development and artistic development in behavior age-appropriate students; materials, resources and processes for teaching art; classroom management; and technology applications. One hr. lecture, 2 hr. lab. *Prerequisite: admission to MAT-Secondary program or permission of department chair.*

EDUC 564 Induction Into the Classroom 1 cr.

An introduction to schools, their structure and climate, research on school effectiveness, the legal issues and school professional ethics. Specific PDS school policies regarding student behavior and the school system conceptualization of the school improvement process. The course will also require the completion of computer competencies: e-mail, word processing, Web research, presentation skills and sophistication in integration of curricular software. Offered in spring. *Prerequisite: admission into the Master of Arts in Teaching program or permission of program coordinator.*

EDUC 565 Induction to Technology for Teaching and Learning in the 21st Century 1 cr.

Experiences and practice in using 21st century technology skills and applications to support P-12 curriculum.

EDUC 590 Special Topics in Education 1/2-6 cr.

Special workshop on a current topic, as arranged. Repeatable if topics are substantially different.

EDUC 599 Individual Problems in Education 1-3 cr.

Independent study under supervision. Research paper on a special topic. Requires proposal approval by the chair of the Department of Educational Professions prior to registering. Repeatable for maximum of 6 credits. Every semester, summer.

EDUC 601 Current Trends in Curriculum 3 cr.

Historical survey of the development of the curriculum and the influences upon its development. Trends and their causes, including the identification, analysis and appraisal of current trends.

EDUC 602 History of Education 3 cr.

Significant historical periods in education in the context of social, political and economic history, with emphasis on contemporary developments.

EDUC 603 Principles and Practices of Research 3 cr.

Definitions of research; the research process; chronological development of educational research; library use and research literature; the research abstract; historical, descriptive and experimental types of research. Identification of researchable problems and the formulation of research designs, descriptive and inferential statistical techniques, style for writing the research report. Every semester, summer.

EDUC 606 Developmental Theory and Experiential Growth 3 cr.

Understanding the concept of self, logical decision making, communication theory, effects of the various social-cultural factors on learners; effects of the individual, the group and the system on the learning process; leadership theory and skills; studies in human growth and development. Every semester, summer.

EDUC 607 Comparative Education 3 cr.

Educational systems in the major and developing countries in relation to the American systems. Programs of various organizations that work for international understanding.

EDUC 613 Classroom Assessment 3 cr.

This course is intended to assist students in the attainment of a theoretical understanding and knowledge related to the design, implementation and use of various assessment instruments that include, but are not limited to, formal and informal observation, paper-and-pencil instruments, oral questioning, student records, authentic performance tasks and student portfolios, as well as the qualitative analysis of pupil performance—product and process.

EDUC 624 Teaching in the Distance Learning Classroom 1 cr.

A study of the development and practice of teaching via an interactive network. The course includes an overview of the development of "distance" education, an introduction to using the associated technology, an analysis of appropriate delivery strategies and techniques, and an opportunity for hands-on practice teaching content area lessons.

EDUC 625 Philosophy of Education 3 cr.

Philosophies of education. The individual educator's rationale for designing curricula and developing ways of working with students.

EDUC 626 Technology Applications in Early Childhood Education 1 cr.

Explore the use of various technologies and software in the early childhood classroom. Activities will include the use of multimedia, discovery learning, writing tools and tools to encourage creativity in young children. Research, exploration and project oriented.

EDUC 627 Human Relations in Education 3 cr.

Helping relationships, human behavior in groups and organizations, multicultural issues and applications, interpersonal teaching skills, applications of human relations principles.

EDUC 629 Elements of Statistics 3 cr.

The elements of descriptive statistics and their application to educational measurement.

EDUC 630 Tests and Measurements 3 cr.

Standardized and teacher-made testing and measurement. Standardized testing concepts. How to scientifically develop, revise, administer and interpret teacher-made tests.

EDUC 631 Mental Hygiene for Teachers 3 cr.

Problems of personal and social maladjustment and their impact on teaching.

EDUC 632 Use of Telecurricular Instruction 3 cr.

Use of telecurricular instruction to create a bond between classroom instruction, curriculum and technology. Overview of impact of telecurricular instruction on teaching and learning. Strategies and techniques in designing and managing telecurricular projects with K-12 students. *Prerequisite: EDUC 633 or concurrent enrollment in EDUC 633.*

EDUC 633 Multimedia Design and Publication for Instruction 3 cr.

An introduction to multimedia tools, design, development, publication and evaluation. Work with text, graphics, video and sound to create instructional activities that incorporate various approaches to teaching and emphasize K-16 student learning. Plan for integration of multimedia in the curriculum.

EDUC 634 Telecommunications for Educators 1 cr.

Introductory course to familiarize educators with telecommunications in a "hands-on" environment. This course is intended to provide the opportunity for educators to become proficient in the use of telecommunications activities in the classroom.

EDUC 635 Evaluation and Integration of Technology in Instruction 3 cr.

Develop competencies in evaluation and selection of technology resources for instruction. Study the nature of curriculum development and examine strategies for integrating technology into K-16 curriculum with an emphasis on performance-based teaching and learning to enhance student achievement. Explore assessment tools to monitor student progress toward performance indicators. *Prerequisite: EDUC 633 or the ability to create and post simple Web pages.*

EDUC 640 Curriculum Development 3 cr.

The nature of curriculum development: basic determinants, valid objectives, designing learning experiences, processes of curriculum organizations, systems of curriculum evaluation and the procedures for curriculum improvement/change. Fall, spring, summer.

EDUC 645 Advanced Instructional Design 3 cr.

Advanced seminar dealing with the application of Instructional Systems Design principles for multimedia educational systems. Explore various theories of learning and information presentation as they apply to multimedia technologies and delivery systems. Design and develop performance-based units and assessments using advanced technology tools techniques. *Prerequisites: EDUC 633, EDUC 635 and CUIN 639 or knowledge of instructional systems design principles.*

EDUC 647 Advanced Educational Psychology 3 cr.

Principles of effective human learning. Major learning theories and their significance for classroom procedures and for general education theory.

EDUC 655 Design and Administration of Instructional Games 3 cr.

Theory, design and administration of reality and simulation games for classroom use. Practice in designing a variety of games suitable for instruction in content areas. *Prerequisites: EDUC 201 and 202 or permission of instructor.*

EDUC 656 Diagnosis in Arithmetic 3 cr.

Diagnosis of student competencies, skills, errors; treatment plans; evaluation materials; teaching tips. *Prerequisite: ELED 471 or SCED 315 or permission of instructor.*

EDUC 658 Mathematics Workshop for Teachers 3 cr.

Construction of mathematical activities tailored to individual teacher needs. Novel methods, ample materials developed for future classroom use. *Prerequisite: mathematics methods course for early childhood, elementary or secondary level, or permission of instructor.*

EDUC 661 Mathematics: Curriculum, Instruction and Assessment 3 cr.

Current theory and practice for mathematics instruction in elementary education. Review of the research on children's developing conceptions and misconceptions about mathematics, children's problems in achieving literacy in another symbol system, children's error patterns and principles of learning in elementary mathematics. Study of Maryland Outcomes and National Standards for Mathematics. *Prerequisite: admission into the Master of Arts in Teaching program or permission of the program coordinator.*

EDUC 662 Science and Health: Curriculum, Instruction and Assessment 3 cr.

Research and best practices for health and science instruction in the elementary school. National Science Standards, Health Education Standards and Maryland Outcomes are addressed. An overview of health education and health issues for elementary children. *Prerequisite: admission into the Master of Arts in Teaching program or permission of program coordinator.*

EDUC 663 Management and the Learning Environment 2 cr.

Analysis and management of students in the classroom based on research. Organizational practices to create a positive classroom climate through proactive management of the classroom and social skills development of the students. *Prerequisite: admission into the Master of Arts in Teaching program or permission of program coordinator.*

EDUC 664 Diversity in the Classroom 3 cr.

Study of teachers' responsibilities in providing an appropriate program for diverse children, including children with special needs. The development and implementation of instructional strategies and materials and appreciation of diverse populations based on research and best practices. School visitations required. Offered during Intercession. *Prerequisite: admission into the Master of Arts in Teaching program or permission of program coordinator.*

EDUC 665 The Arts: Contrasts and Connections 3 cr.

Examination of elements, forms and concepts in art and music. Interdisciplinary, team-taught approach to arts appreciation, criticism and creation utilizing a variety of cultural resources. *Prerequisite: admission into the Master of Arts in Teaching program or permission of program coordinator.*

EDUC 666 Social Studies: Curriculum, Instruction and Assessment 2 cr.

Addresses current theory and practice for social studies instruction in elementary education. Covers appropriate content and strategies for instruction as well as Maryland Outcomes and National Standards for Social Studies. *Prerequisite: admission into the Master of Arts in Teaching program or permission of program coordinator.*

EDUC 680 Travel Study Tour of Maryland 3 cr.

A 7-day travel study tour of environmental, economic and historical resources in western, central and southern Maryland. Completion of a curriculum project. Sites studied include industrial facilities (Westvaco to Calvert Cliffs Nuclear Power Plant), environmental and recreational areas (Swallow Falls to Inner Harbor) and places of historical significance (Garrett County Museum to St. Mary's City). Additional costs include meals and shared automobile expenses. Accommodations are provided.

EDUC 690 Current Concepts in Education 1/2-6 cr.

Analysis and discussion of current critical issues confronting education. Repeatable for maximum of 6 credits if topics are substantially different.

EDUC 691 Seminar in Education 3 cr.

Discussion of assigned research. Formal research paper required. *Prerequisite: admission to degree status and permission of instructor.*

EDUC 696 Practicum Part I 3 cr.

Intensive experience in the professional development school for the initial certification student. Experience centers on the knowledge, skills and dispositions of a quality teacher with emphasis on collection of data and assessment of learning to drive instruction. Cohort group remains as a critical element of the student's experience along with substantial time with a mentoring teacher. Peer coaching and collaborative efforts emphasized. Involvement with the school improvement process and study of school reform. Emphasis given to student's professional portfolio prior to the final assessment is part of the practicum experience. *Prerequisite: admission into the Master of Arts in Teaching program or permission of program coordinator.*

EDUC 697 Practicum Part II**3 cr.**

Intensive experience in the professional development school for the initial certification student. Knowledge, skills and dispositions of a quality teacher with emphasis on collection of data and assessment of learning to drive instruction. Cohort group remains a critical element of the student's experience, but this semester along with substantial time with a mentoring teacher. Peer coaching and collaborative efforts emphasized. School improvement process and study of school reform. Attention given to the student's professional portfolio and to the student's final assessment course is a continuation of the spring semester practicum experience designed to extend time in the Professional Development School and to provide students with the experiences of ending a school year. *Prerequisite: admission into the Master of Arts in Teaching program or permission of program coordinator.*

EDUC 700 Master's Research Paper or Project**variable with a minimum 3 cr.**

Individual investigation or project related to the area of concentration and professional education. Enroll in final credit(s) of Master's Research Paper or Project in the semester in which you expect the paper or project to be approved. Should you not complete the paper or project in the final semester, you will receive a CS grade in this course and will be required to re-enroll in a minimum of 1 additional credit of Master's Research Paper or Project each fall and spring semester thereafter until the paper or project is completed. Your progress and the decision of the thesis advisor will determine the number of credits for which you must register. Course is graded P/NC.

EDUC 710 Thesis**variable with a minimum 3 cr.**

Intensive investigation of an approved topic in the specialized area within the Master of Education degree. Proposal required prior to registration. Enroll in final credit(s) of Thesis in the semester in which you expect the thesis to be approved. Should you not complete the thesis in the final semester, you will receive a CS grade in this course and will be required to re-enroll in a minimum of 1 additional credit of Thesis each fall and spring semester thereafter until the thesis is completed. Your progress and the decision of the thesis advisor will determine the number of credits for which you must register. Course is graded P/NC.

REED 518 Reading and Writing Connections**3 cr.**

Reading and writing activities in daily instruction. The role and use of authentic assessments in determining student reading performance and selection of materials appropriate to student ability levels. *Prerequisite: admission to the M.A.T. Secondary program.*

REED 525 Creative Teaching of Reading**3 cr.**

Workshop in preparing individual study units for reading skills, K-6, through learning centers, stations and manipulative materials. *Prerequisite: REED 473 or permission of instructor.*

REED 530 Processes and Acquisition of Language and Reading**3 cr.**

Study of basic linguistic and psycholinguistic insights into language acquisition and the primacy of language development processes in literacy, how the brain responds to language and reading, and the role of experiential background, prior knowledge, phonemic awareness and personal significance in developing readers. The central concept of literacy will be introduced. *Prerequisite: admission into the Master of Arts in Teaching program or permission of program coordinator.*

REED 531 Literacy Instruction**3 cr.**

Definitions of reading and emergent literacy and the research, best practices and instructional strategies that focus on reading from initial exploration of print through critical processing of literary experiences and content materials. Role of print, word study, text structure, comprehension and classroom organization in developing a variety of strategies with developing readers. Early identification and intervention strategies for low-achieving readers will also be analyzed. Concept of emerging literacy will be related to other areas of knowledge. *Prerequisite: admission into the Master of Arts in Teaching program or permission of program coordinator.*

REED 532 Reading Materials**3 cr.**

Research-based principles and precepts to the selection and use of a variety of reading materials. Teachers' role for developing the long-term motivational support for developing literacy within a framework of inquiry. Research on motivation and its relation to reading. Variety of texts to be used in classes when reading for literary experience, reading to perform

a task and reading for information and relate them to current research on reading. Strategies for selecting materials, retrieving materials and evaluating materials. Accessibility, variety of media, multicultural materials, text features and oral and written responses to literature. Research and best practices on the role of parents and community in supporting the reading program. *Prerequisite: admission into the Master of Arts in Teaching program or permission of program coordinator.*

REED 533 Reading Assessment**3 cr.**

Knowledge of best practices and research using data from state, local and classroom assessments of reading to make ongoing modifications in their PDS classrooms that include strategies for prevention and intervention. Understanding of how to implement a variety of reading assessments and adjust the curriculum. Understanding of the circumstances under which the following types of reading assessments are valuable: teacher observations, running records, learning logs, performance assessment, portfolios, projects, rubrics and norm-referenced assessments. Knowledge of how to provide meaningful input to Individualized Educational Plan (I.E.P.) teams. Communicate assessment data about individual student reading performance to parents. *Prerequisite: admission into the Master of Arts in Teaching program or permission of program coordinator.*

REED 540 Children's Literature**3 cr.**

Content and form of children's literature in books other than school textbooks. How to evaluate literature and use literary materials in teaching.

REED 610 Foundation of Teaching Reading**3 cr.**

Methods and materials for teaching reading, including the elementary school reading program. The application of research to the teaching of beginning readers, reading as a learning process. This course must be taken first in the reading core sequence. Fall.

REED 617 Teaching Reading in the Content Areas**3 cr.**

Methods to develop reading skills as part of the teacher's regular classroom instruction. Problems related to teaching students the skills specifically needed to read subject areas. Spring.

REED 620 Diagnosis and Correction of Reading Difficulties**3 cr.**

Investigation of causes of reading disabilities and treating them. Individual and group testing and remedial techniques. Spring. *Prerequisite: REED 610.*

REED 635 Middle and Secondary School Reading**3 cr.**

For developmental, corrective or remedial reading teachers in grades 4-12. Emphasis on theory and practice of instruction in the areas of comprehension, vocabulary and study skills. *Prerequisite: REED 610 or REED 617.*

REED 636 The Psychology of Reading and Reading Difficulties**3 cr.**

The reading process, including types of reading difficulties and their causes. Fall. *Prerequisite: REED 610.*

REED 637 Organizing and Administering the Reading Program**3 cr.**

Reading program development, including in-service education in reading, evaluation of instructional materials, school and classroom organization for reading instruction, evaluation of the school reading program and working with content teachers. Fall. *Prerequisite: REED 620.*

REED 638 Reading Capstone**3 cr.**

Conduct action research in diverse school environments as a means of influencing literacy practices and instruction. Assume coaching role during practicum experiences to support teachers' professional development. Share field research findings through school and symposium presentations. Offered during fall and spring semesters. Graded P/NC. *Prerequisite: completion of program course requirements or permission of instructor; taken during final semester.*

REED 695 Reading Clinic**3-6 cr.**

Combined class lecture and lab experience focusing on diagnosing and tutoring disabled readers. Students required to complete two 3-credit clinics, Part 1 in the fall semester, Part 2 in the spring semester. 6 credit hours when clinic is offered in the summer. Repeatable for maximum of 6 credits. *Prerequisite: REED 620.*

SCCO 600 Core Counseling Skills**3 cr.**

Introduces the broad field of counseling, and specifically, school-oriented counseling in grades K-12. Core elements include the nature of the helping relationship, introduction to basic counseling skills and exploring attitudes and beliefs involved in developing and maintaining the helping relationship and how these fundamental core elements apply to the school counselor. Lab experience included that focuses on the counseling relationship and its personal implications. *Prerequisite: admission to the School Counseling program or permission of instructor.*

SCCO 601 Program Planning and Service Delivery**3 cr.**

The development, organization and administration of the school counseling program, K-12. Included are the principles upon which the program is built, appropriate procedures for successful program implementation and professional counselor strategies and behaviors. Not open to students who have received credit for the former GUCO 601. *Prerequisite: admission to the School Counseling program or permission of instructor.*

SCCO 602 Applied Readings in School Counseling**3 cr.**

Application of current literature to the field of school counseling. Journals, books and other sources of information, such as Internet resources, will be examined with the purpose of applying current information to the practical work of the school counselor. Not open to students who have received credit for the former GUCO 602. *Prerequisite: SCCO 600, admission to the School Counseling program or permission of instructor.*

SCCO 606 Social and Cultural Diversity: Issues and Counseling Interventions**3 cr.**

Designed to promote understanding of social and cultural diversity relevant to a K-12 educational setting. Examines how one's cultural identity impacts one's beliefs, values and actions in a counseling situation. Provides a framework and skills for competent ethical practice with such issues as gender, race, ethnicity, socioeconomic status, religion, sexual orientation, exceptionalities, family structure and geographic location. Assignments focus on identification and development of one's values, beliefs, cultural identity and biases and their impact on the counseling process. *Prerequisites: SCCO 600 and admission to the School Counseling program or permission of instructor.*

SCCO 608 Lifestyle, Career Development and Decision Making**3 cr.**

Designed to provide prospective counselors with knowledge and skills in helping students develop a realistic career plan through the synthesis of knowledge of self and the world of work. Not open to students who have received credit for the former GUCO 608. *Prerequisite: admission to School Counseling program or permission of instructor.*

SCCO 609 Theories and Techniques in School Counseling**3 cr.**

Designed to familiarize school counseling students with the primary theories and techniques that are applicable to the K-12 setting. Emphasis placed on application of the theories to the needs of K-12 school children and their families. Additional focus on development of a personal theoretical approach to counseling children and understanding of how the techniques support the theory. *Prerequisites: Admission to the School Counseling program or permission of instructor, SCCO 600, SCCO 601.*

SCCO 610 Legal, Ethical and Professional Issues in School Counseling**3 cr.**

Designed to present a legal and ethical framework for school counselors. Provides prospective school counselors with a basis for developing their professional code of ethics within the framework of the standards established by the American Counseling Association. Topics such as relevant court cases, child abuse issues and confidentiality will be explored. Not open to students who have received credit for the former GUCO 610. *Prerequisites: SCCO 600, 601, 606, 609, 619, admission to School Counseling program, or permission of instructor.*

SCCO 612 Practicum**3cr.**

An academic and experiential class designed to provide candidates with *in vivo* learning experiences regarding the role of the professional school counselor in the K-12 environment. Supervised experience at one level (elementary, middle or high school) for a total of 100 clock hours. Represents the initial hands-on experience as part of the professional training program for school counseling. Taken in the third semester of course work for full-time students, concurrent with the SCCO 610 Ethics course and prior to the internship semester. Offered once per year for full-time students. *Prerequisites: completion of core School*

Counseling course, EXCEPT for SCCO 610 and SCCO 613 (which may be taken concurrently), SCCO 692, SCCO 693 and permission of program coordinator.

SCCO 613 Group Dynamics and Interventions in the School Setting**3 cr.**

Provides prospective school counselors with knowledge and skills in the application of group procedures to the school setting K-12, including appropriate techniques in group guidance, group counseling and school consultation. Not open to students who have received credit for the former GUCO 613. *Prerequisites: admission to School Counseling program or permission of instructor; SCCO 600 and 609.*

SCCO 619 Assessment Issues in the School Setting**3 cr.**

Provides prospective school counselors with knowledge and skills related to the philosophy, selection and implementation of student appraisal techniques, including the development, content and trends in school testing programs. Review of standardized and teacher-made testing and measurement. Interpretation of testing results. Not open to students who have received credit for the former GUCO 619. *Prerequisite: EDUC 603, admission to the School Counseling program or permission of instructor.*

SCCO 625 Counselor as a Person**3 cr.**

Exploration of the interface between the person of the counselor and the professional role demands. Focus on elements and issues in the personal and professional arenas of counselor's life as they impact ability to function effectively in the counseling process. Emphasizes self-awareness and maintenance of balance and healthy boundaries as essential components of ethical practice. Not open to students who have received credit for the former EDUC 590 or PSYC 692 special topics Counselor as a Person course. *Prerequisite: PSYC 510 or 600, or SCCO 600, admission to the School Counseling program or permission of instructor.*

SCCO 633 Advanced Counseling and Consulting Strategies With Specific Populations**3 cr.**

Advanced counseling and consulting strategies appropriate for assisting various types of clientele encountered in a K-12 environment. Topics will vary based on current issues and needs. Not open to students who have received credit for the former GUCO 633. *Prerequisite: SCCO 600, admission to the School Counseling program or permission of instructor.*

SCCO 692 School Counseling Seminar**3 cr.**

Through the study of recent professional literature in selected topic areas, students will increase their awareness and knowledge of significant trends in issues in guidance and will become more familiar with the current guidance procedures and techniques. Not open to students who have received credit for the former GUCO 692. *Prerequisite: admission to the School Counseling program or permission of instructor.*

SCCO 693 Internship in School Counseling**1-6 cr.**

An academic as well as experiential class in which the student is responsible for providing 500 clock hours of counseling services to young people enrolled in grades K-12. Supervised experience in elementary, junior high (middle) school and secondary school counseling. A total of 6 graduate credits is required and may be taken over a one or two semester time period. Represents an integration of learned guidance and counseling skills as well as the relation of theory to practice. Taken during the last semester(s) of a student's program of study. Not open to students who have received credit for the former GUCO 693. Repeatable for maximum of 6 credits. *Prerequisites: completion of all core school counseling courses and permission of program coordinator.*

SCED 510 Secondary Methods and Curriculum**3 cr.**

Evolution of the philosophy of secondary education. Current curricula, planning, issues and instructional methodologies in all secondary teaching areas. *Prerequisite: admission to the M.A.T. Secondary program.*

SCED 511 English in the Secondary School**3 cr.**

Subject methods course required for secondary certification in teaching English. Modern trends in curriculum and instruction. *Prerequisite: admission to the M.A.T. Secondary program.*

SCED 514 Mathematics in the Secondary School**3 cr.**

Subject methods course required for secondary certification in teaching mathematics. Modern trends in curriculum and instruction. *Prerequisite: admission to the M.A.T. Secondary program.*

SCED 515 Methods of Teaching Modern Foreign Languages 3 cr.

Subject methods course required for secondary certification in teaching foreign language.

Prerequisite: admission to the M.A.T. Secondary program.

SCED 519 Science in the Secondary School 3 cr.

Subject methods course required for secondary certification in teaching science. Modern trends in curriculum and instruction. *Prerequisite:* admission to the M.A.T. Secondary program.

SCED 520 Social Studies in the Secondary School 3 cr.

Subject methods course required for secondary certification in teaching social studies.

Modern trends in curriculum and instruction. *Prerequisite:* admission to the M.A.T. Secondary program.

SCED 696 Practicum I With Secondary Seminar 6 cr.

An intensive experience in the secondary school setting for the initial certification student.

Experience centers on the knowledge, skills and dispositions of a quality teacher with emphasis on collection of data and assessment of learning to drive instruction. Peer coaching and collaborative efforts emphasized. Involvement with the school improvement process and school reform. Emphasis given to development of intern's professional portfolio.

Prerequisites: admission to the M.A.T. Secondary program; completion of SCED 510 and concurrent enrollment in SCED content methods course recommended.

SCED 697 Practicum II With Secondary Seminar 6 cr.

An intensive experience in the secondary school setting for the initial certification student.

Experience centers on the knowledge, skills and dispositions of a quality teacher with emphasis on collection of data and assessment of learning to drive instruction. Peer coaching, collaborative efforts emphasized under the direction of a mentoring teacher.

School improvement process and school reform. Continued development of the intern's professional portfolio. Course is a continuation of Practicum I. Seminar is designed to address topics, issues and concerns as scheduled or needed and to integrate portfolio development and the research component and other aspects of the program within the practicum experience. *Prerequisites:* admission to the M.A.T. Secondary program; completion of SCED 696.

SPED 506 Arithmetic: Learning Disabilities and the Reluctant Learner 3 cr.

Introduction to learning disabilities and their interference with arithmetic performance in elementary school; teaching the undermotivated learner in mathematics.

SPED 510 Introduction to Special Education 1 cr.

History of special education in public schools. Study of legislative mandates and educational intervention procedures and resources. Definitions, characteristics and prevalence of specific disabilities. Observations and field-based study required. *Prerequisite:* admission into the Master of Arts in Teaching program or permission of program coordinator.

SPED 551 Adapting Instruction in Diverse Classrooms 3 cr.

An understanding of the instructional and social development needs of the disabled and nondisabled students in inclusive classrooms. Special attention to collaboration, technology, legislation, educational programming, instructional strategies, inclusion models and current research related to the students enrolled in secondary school inclusion programs and K-12 programs. *Prerequisite:* admission to the M.A.T. Secondary program.

SPED 561 Characteristics of Exceptional Children 3 cr.

Etiology, diagnosis, physical, emotional and social characteristics of exceptional children, including the gifted, retarded and physically handicapped.

SPED 562 Introduction to the Education of Exceptional Children 3 cr.

Understanding the educational needs of exceptional children; preventive and remedial education.

SPED 563 Teaching Children With Special Needs 3 cr.

Observation, identification and management of children with mild to moderate learning problems. Telecourse of 16 half-hour sessions with fifteen 2 1/2 hr. seminars. *Prerequisite:* permission of instructor.

SPED 581 The Gifted Learner 3 cr.

Study of recent research in characteristics, needs and problems of gifted learners; model programs; future possibilities. *Prerequisite:* Psychology 150 or Education 201 or permission of instructor.

SPED 582 Curriculum for the Gifted Learner 3 cr.

Theoretical and practical approaches to teaching gifted learners; constructing unique plans for each teacher's needs. For those who deal with gifted learners. *Prerequisite:* at least one course in curriculum.

SPED 601 Assessment, Diagnosis and Evaluation of Exceptional Children 3 cr.

Basic concepts, ethical concerns, legal issues and typical procedures related to the assessment and monitoring of exceptional individuals. Appropriate application and interpretation of testing results. Appropriate use of widely accepted assessment instruments. Strategies that consider the influence of diversity on the special education process.

Prerequisites: SPED 561 and SPED 562.

SPED 602 Instructional Content and Practices for Exceptional Children 3 cr.

Instructional strategies and practices to meet the needs of individuals with disabilities, including academic, behavioral, medical self-management, communication, vocational/career and general curriculum integrative needs. *Prerequisites include 6 credit hours of special education course work.*

SPED 603 Planning and Managing the Teaching and Learning Environment for Individuals With Disabilities 3 cr.

Basic classroom management theories, methods and techniques for individuals with exceptional learning needs. Research-based best practices for effective management of teaching and learning. Use of technology in planning and managing the teaching and learning environment. Ten weeks field experience component. *Prerequisites:* SPED 601 and SPED 602.

SPED 604 Managing Student Behavior and Social Interaction Skills 3 cr.

Strategies for promoting learning for students with behavior disorders. Ten weeks field experience component. *Prerequisites:* SPED 601 and 602.

SPED 605 Communication and Collaborative Partnerships in Special Education Programs 3 cr.

Strategies for communication and collaboration in working with individuals with exceptional learning needs, parents, school personnel and community agencies. *Prerequisite:* 6 hours in special education courses.

SPED 691 Seminar in Special Education 3 cr.

A case study approach to dealing with issues and problems that individuals with disabilities and those who provide educational services for them encounter during the school experience. Demonstrations of competency in appropriate technology required during the course. A culminating course for majors. Repeatable for maximum of 6 credits if topics are substantially different. *Prerequisite:* 18 hours of special education course work.

English

ENGL 502 Editing and Production 3 cr.

Design, layout and editing techniques for professional publications. Reinforcement of copy editing and proofreading skills. Spring, even-numbered years. *Prerequisite:* ENGL 308, 309, 310, 330 or 338.

ENGL 507 American Fiction: 1865-1922 3 cr.

American novels and short stories of the period, with special attention to literary history and the development of realism and naturalism. Spring, even-numbered years. *Prerequisite:* ENGL 300 or permission of instructor.

ENGL 508 Modern and Post-Modern American Fiction 3 cr.

American novels and short stories from the 1920s to the present from a variety of cultural and gender perspectives. Spring, odd-numbered years. *Prerequisite:* ENGL 300 or permission of instructor.

ENGL 516 History of the English Language 3 cr.

From the beginnings to contemporary usage; changes in sounds, grammatical and spelling forms, syntax and vocabulary. Spring only.

ENGL 518 Second Language Acquisition: Theory and Application 3 cr.

Introduction to theories of how people learn second languages, with application to conducting research or to the teaching/tutoring of second/foreign languages (principally English as a second language). Spring of even-numbered years. *Prerequisite:* ENGL 306 or 416 or LING 301 or permission of instructor.

ENGL 526 Modern American Poetry 3 cr.

From its antecedents in Whitman and Dickinson to contemporary poets, with emphasis on Frost and Eliot. Spring of even-numbered years. *Prerequisite:* ENGL 300 or permission of instructor.

ENGL 530 The Composing Processes 3 cr.

A survey of theory and research on the composing process. *Prerequisite:* 6 hrs. of writing courses.

ENGL 536 Advanced News and Feature Writing 3 cr.

Skills in gathering and writing news. Techniques of New Journalism and writing for magazines. Spring only. *Prerequisite:* ENGL 336 or permission of instructor.

ENGL 540 Literature of the Environment 3 cr.

Critical, multicultural and historical study of literature of the environment, emphasizing the variety of attitudes toward the land in essays and poetry. Fall, odd-numbered years.

ENGL 590 Selected Topics in English 3 cr.

A select aspect or body of literature of limited scope and topical interest. Subject varies; see Academic Schedule for specific titles. Repeatable for maximum of 6 credits if topics are substantially different. Offered at variable intervals.

ENGL 599 Independent Study 1-3 cr.

Reading and writing on a specific topic defined by the student with a faculty director and the chair of the Department. Repeatable for maximum of 6 credits if topics are substantially different.

ENGL 650 Literature and the Modern Humanities 6 cr.

Twentieth-century fiction, drama, poetry and essays with attention to writers' responses to issues of technology, war, racism, sexism, religious belief and ideology. Developments in critical and aesthetic theory as well as seminal influences. Every third summer. *Prerequisite:* admission to the Modern Humanities program.

ENGL 651 Research in Literature and Modern Humanities 3 cr.

Research and preparation of a paper on a topic in literature growing out of English 650. Every third Intersession. *Prerequisite:* successful completion of English 650.

ENGL 690 Current Concepts in Secondary English 3 cr.

Secondary school English teaching. An exploration of recent issues of content and process. Repeatable for maximum of 6 credits if topics are substantially different.

ENGL 700 Master's Research Paper/Project in Modern Humanities variable cr.

Independent research paper or project exploring a 20th-century theme. Enroll in final credit(s) of Master's Research Paper/Project in the summer in which you expect the completed paper or project to be approved. For each registration prior to completion, a CS grade will be given and you will be required to re-enroll in a minimum of 1 additional credit of Master's Research Paper/Project each summer thereafter until the paper or project is completed. Upon completion, the CS grade in the credits contracted for initially will be replaced with a final letter grade (A,B,C or F); additional credits will be graded P/NC. Summers and Intersessions only.

Foreign Languages and Literature

Special Topics

MDFL 507 Latin American and Spanish Films 3 cr.

A study principally of the most recent films from Latin America and Spain. Taught in English (may not be taken to satisfy the Spanish major). Students who have taken this course may not take SPAN 507 and vice versa. Two hrs. lecture and 2 hrs. lab. Variable.

French

FREN 502 The French Theater 3 cr.

French theater from 17th century to the present. Major schools and playwrights from Corneille to the antitheater of the mid-20th century. Alternate springs. *Prerequisite:* FREN 315 or permission of instructor.

FREN 504 French Fiction 3 cr.

Great novels, novellas and short stories from the 17th century to present. Alternate springs. *Prerequisite:* FREN 315 or permission of instructor.

FREN 590 Special Topics in French Language and Literature 3 cr.

A selected topic such as an author or work, a genre or theme, translation or interpreting. Repeatable for maximum of 9 credits if topics are substantially different. *Prerequisites:* two 300-level French courses and permission of instructor.

Spanish

SPAN 501 Spanish Poetry and Drama I 3 cr.

Drama and poetry from the Middle Ages through the Golden Age. *Prerequisite:* SPAN 315 or equivalent.

SPAN 502 Spanish Fiction 3 cr.

Novels and short stories from Cervantes to the present. *Prerequisite:* SPAN 315 or equivalent.

SPAN 503 Spanish Poetry and Drama II 3 cr.

Drama and poetry from the Romantics to the present. *Prerequisite:* SPAN 315 or equivalent.

SPAN 504 Spanish Nonfiction Prose 3 cr.

The essay as literature. Principal Spanish and Latin American essayists. *Prerequisite:* SPAN 315 or equivalent.

SPAN 590 Special Topics in Hispanic Language and Literature 3 cr.

A selected topic such as an author or work, a genre or theme, translation or interpreting. Repeatable for maximum of 9 credits if topics are substantially different. *Prerequisites:* two 300-level Spanish courses and permission of instructor.

SPAN 599 Individual Problems in the Spanish Language 1-4 cr

Individual research or activity requiring submission of a final paper or completed project. Repeatable for maximum of 6 credits if topics are substantially different. *Prerequisites:* three 300-level Spanish courses and permission of instructor.

Geography

GEOG 501 Geography of Europe 3 cr.

Physical, historical and cultural features that have shaped the current landscapes of Europe. *Prerequisites:* GEOG 103 (or 113) and GEOG 104 (or 114) or permission of instructor.

GEOG 502 Geography of Russia and the Former Republics 3 cr.

Population, agriculture, mining, manufacturing, trade and transportation of Russia and adjacent states. Human adjustment to the physical environment of the various regions. *Prerequisites:* GEOG 103 (or 113) and 104 (or 114) or permission of instructor.

GEOG 503 The Geography of Sub-Sahara Africa 3 cr.

The cultural, economic, physical and political potentials of Sub-Sahara Africa. The complex spatial patterns that define the Sub-Sahara African landscape are examined. *Prerequisite:* GEOG 104 (or 114) or permission of instructor.

GEOG 506 Management and Conservation of Natural Resources 3 cr.

Current problems associated with the use and misuse of natural resources. *Prerequisites:* GEOG 103 (or 113) and 104 (or 114) and/or permission of instructor.

GEOG 507 Political Geography 3 cr.

The world patterns of nations; geographic factors affecting the background and present development of countries. *Prerequisite:* GEOG 104 (or 114) or permission of instructor.

GEOG 510 Locational Analysis 3 cr.

Theories and methods of analyzing and explaining the spatial location of economic activities. Emphasis is on theoretical, methodological and practical issues. The relationship between consumer behavior and the location of industrial service facilities is examined. *Prerequisite:* GEOG 104 (or 114) or permission of instructor.

GEOG 512 Geographic Visualization 3 cr.

Explores cartographic applications of computer animation, multimedia presentations and interface design for research, data exploration and visual communication of geo-spatial ideas. Spring, even-numbered years. *Prerequisites:* GEOG 275 and 310 or permission of instructor.

GEOG 513 Remote Sensing – Image Interpretation 3 cr.

Fundamental principles of remote sensing and image interpretation applications in Geography; the remote sensing process, Earth surface energy/matter interactions, photogrammetry basics, color theory & digital image display, introductory digital image processing, and a survey of image types including panchromatic, color-infrared, multispectral, thermal, and radar. Two hrs. lecture and 2 hrs. lab. Fall. *Prerequisite:* GEOG 275 or permission of instructor.

GEOG 514 Digital Image Processing and Analysis 3 cr.

Digital image processing and analysis related to environmental and natural resource management. Satellite data acquisition, data formats and packaging techniques, image processing and analytical techniques, image classification and interpretation, integration of digital image processing applications and modeling with GIS. Two hrs. lecture and 2 hrs lab. Spring. *Prerequisites:* GEOG 275 and GEOG 413 or permission of instructor.

GEOG 517 Geospatial Analysis 3 cr.

Further exploration of GIS theory and applications of spatial analysis and modeling. Includes spatial modeling, building geodatabases by integrating data from separate sources, scripting languages and techniques, and electronic map serving. Student-led discussions and computer-based lab exercises. Two hrs. lecture and 2 hrs. lab. Spring. *Prerequisite:* GEOG 317 or permission of instructor.

GEOG 518 Cartometrics 3 cr.

Examines the map's role as a tool for measuring geo-referenced data, including spatial transformations, interpolation and generalization. Computer-based projects, selected readings and group discussions. Spring, odd-numbered years. Two hrs. lecture and 2 hrs. lab. *Prerequisites:* GEOG 310 and GEOG 317.

GEOG 521 Regional Planning 3 cr.

Contemporary topics in regional planning and development. Group and individual projects and research. *Prerequisite:* GEOG 325 or permission of instructor.

GEOG 527 Geography of Language and Religions 3 cr.

Languages and religions examined from a geographic perspective. Emphasis placed on the five geographic themes of culture region, cultural diffusion, cultural integration, cultural landscapes and cultural ecology. Three hrs. lecture. *Prerequisite:* GEOG 104 (or 114) or permission of instructor.

GEOG 530 Surface Water Hydrology 4 cr.

Physical principles governing occurrence and movement of water, including precipitation, evaporation and transpiration; runoff; infiltration; soil water movement; and stream channel morphology. Lab/field experience with stream gauging, infiltration measurement, soil hydraulic conductivity, flow frequency analysis and related phenomena. Human influence on surface water hydrology. Three hrs. lecture and 2 hrs. lab. Spring. *Prerequisite:* GEOG 103 (or 113) or permission of instructor.

GEOG 532 Groundwater Hydrology 3 cr.

Principles governing the physical and chemical nature of water below the earth's surface, including fundamental concepts of groundwater flow, water-rock interaction and groundwater-surface water interactions. Exploration of human influence on the hydrological environment. Fall. *Prerequisite:* GEOG 530 or permission of instructor.

GEOG 545 Biogeography 3 cr.

Patterns of plant and animal distributions in the landscape are stressed and are considered in light of historical, environmental and biotic influences. Historical development of contemporary regional distributions, survey of world biomes and the importance of disturbance and human-induced changes on biotic distributions are considered. *Prerequisites:* GEOG 103 or BIOL 100. BIOL 340 is recommended.

GEOG 550 Urban Planning 3 cr.

City Planning: needs assessment, land use suitability, policy and design. Participation in limited scope planning projects. *Prerequisite:* GEOG 324 or permission of the instructor.

GEOG 554 Geography of Tourism 3 cr.

A review of geographical distribution of tourism, travel patterns and tourism impacts on natural environments and local populations. *Prerequisite:* Completion of 6 credits of geography or senior standing.

GEOG 555 Tourism Planning 3 cr.

Planning activities associated with the development and marketing of tourist activities. Consideration of both business and leisure travel. Group project focus. *Prerequisite:* GEOG 454 or 554.

GEOG 560 Natural Hazards in the Physical Environment 3 cr.

Study of hazards to human society arising from wind, water and earth, either independently or from human activities. Perception, prevention and mitigation of hazards; spatial distribution and impact on global population. *Prerequisites:* GEOG 103 and senior standing or permission of instructor.

GEOG 572 Environmental Planning 3 cr.

Principles and methods used in environmental assessments and site analysis. Students will prepare an environmental impact statement, site development plan and mine reclamation plan. Two hrs. lecture and 2 hrs. lab. Spring.

GEOG 573 Environmental Law 3 cr.

A survey of federal and state environmental laws and regulations. History and role of environmental regulation related to air and water pollution, waste disposal and resource development. Fall.

GEOG 599 Research in Geography 3 or 6 cr.

Research in field of interest chosen by student and faculty. Repeatable for maximum of 6 credits. *Prerequisites:* minimum of 15 hrs. of geography completed, GEOG 380 and permission of the Chair of the Department.

Health & Physical Education

Health

HEED 504 Health Instruction 3 cr.
Basic concepts of health education. Implementing a health education program for grades K-12.

HEED 508 Therapeutic Modalities in Sports Medicine 3 cr.
The study of the theoretical basis and practical usage of various therapeutic modalities. Designed for individuals who routinely treat sports-related injuries. Fall only. *Prerequisite:* HEED 305 or permission of instructor.

HEED 516 Curriculum Design in Health Education 3 cr.
Health Education curriculum development, implementation and evaluation; implementation of program strategies from evaluation results. Spring.

HEED 518 Current Issues in Health 3 cr.
Identification and investigation of problems and solutions relevant to existing or emergent health topics. Spring.

Physical Education

PHEC 501 Physiology of Exercise 3 cr.
Exercise and the circulatory, respiratory and nervous systems; efficiency of muscular work; fatigue; age, gender and body type. Two hrs. lecture, one 2-hr. lab. *Prerequisites:* BIOL 201 and 202 and PHSC 201 and 202 or equivalent.

PHEC 502 Adapted Physical Activities 4 cr.
Adapting physical activities to individual disabilities. Required prior to student teaching in Teacher Education Program. *Prerequisite:* PHEC 303.

PHEC 505 Psycho-Social Foundations of Sport 3 cr.
Study of human behavior during participation in sport, role of sport in society, psychological characteristics of sport performers, people and organizations who control sport.

PHEC 507 Motor Learning and Performance 3 cr.
Motor skill acquisition as learning. Nature of learner; guidance, results, motivation, practice, transfer, retention.

PHEC 510 Advanced Strength Training 3 cr.
The study of the principles and practices of advanced strength training. Emphasis on the practical application of this knowledge to athletic performance and a health/wellness setting. Spring only. *Prerequisites:* PHEC 401/501 or permission of instructor.

PHEC 511 Evaluation and Prescription for Fitness 3 cr.
In-depth examination of evaluation of and components applicable to the development of exercise programs. Fall only. *Prerequisites:* PHEC 401/501 or permission of instructor.

PHEC 512 Principles of Coaching 3 cr.
Introduction to coaching education and the responsibilities of the coach. Spring semester.

PHEC 513 Rehabilitation Techniques in Sports Medicine 3 cr.
Various aspects of the rehabilitation process for the physically active or athletic population. Goals, techniques, evaluation methods and specific rehabilitation programs covered. Spring. *Prerequisite:* HEED 318, 319 or permission of instructor.

PHEC 520 Sports Law and Ethics 3 cr.
Legal implications of tort and liability law for coaches, case studies of ethical issues in sport, athletic eligibility and gender equity.

PHEC 535 Physical Activity and the Older Adult 3 cr.
The aging process, current theories of aging and how physical activity, nutrition, and psychological and sociological variable influence the well-being of individuals as they biologically age.

PHEC 580 Field Experience in Health, Physical Education, Sport and Recreation .05-6 cr.
Special aspects of health, physical education, sport and recreation. Site of study may vary. Repeatable for maximum of 6 credits if placement sites are different. Offered as needed.

PHEC 590 Special Topics in Health, Physical Education, Recreation and Dance 1/2-6 cr.
Unique or distinctive group study, including such activities as clinics, workshops or course work dealing with current topics related to health, physical education, recreation and dance. Repeatable for maximum of 6 credits if topics are substantially different. Offered as needed.

PHEC 598 Readings in H.P.E.R. 1-4 cr.
Intensive readings on a selected topic. Graded or P/N. Repeatable for maximum of 4 credits if topics are substantially different. *Prerequisite:* permission of instructor.

PHEC 599 Individual Problems in H.P.E.R. 1-4 cr.
Individual activity requiring submission of a final paper or completed project. Graded or P/N. Repeatable for maximum of 4 credits if topics are substantially different. *Prerequisite:* permission of instructor.

PHEC 602 Current Literature and Research in Health, Physical Education and Recreation 4 cr.
Directed reading and class discussion based on recent literature in the field. Investigation of testing procedures and experimental methods for conducting research in human performance. Writing for publication.

PHEC 603 Evaluation and Measurement in Health, Physical Education and Recreation 3 cr.
Examination of evaluation instruments, administering, analyzing and interpreting test results.

PHEC 604 Human Movement and Physical Activity for the Elementary Classroom 1 cr.
Research-based developmentally appropriate content, skills and activities in physical education. Primary emphasis on regular classroom teacher role. Lecture and lab. Spring. *Prerequisite:* admission into the Master of Arts in Teaching program or permission of the program coordinator.

PHEC 609 The Psychology of Human Performance 3 cr.
Consideration of factors affecting performance: motivation, aspiration incentives and arousal, discrimination and perception, learning and retention, personality and social correlates of performance.

PHEC 630 Advanced Physiology of Exercise 3 cr.
In-depth study of acute responses and chronic adaptations to exercise, with particular emphasis on circulatory, respiratory and musculo-skeletal functions.

PHEC 634 Graded Exercise Testing and Electrocardiogram Assessment 3 cr.
Training in protocols and procedures for administering progressively strenuous exercise tests and instruction in the evaluation of data regarding cardiac function during such testing.

PHEC 636 Using Technology in the Study of Human Performance 3 cr.
Practical applications of the microcomputer to the health fitness/wellness domain with special attention on the specific programs that are available in diagnosis, evaluation and exercise prescription for adults.

PHEC 638 Nutrition and Weight Control in Adults 3 cr.
Study of all aspects of nutrition related to exercise with special emphasis on body weight control programs. Both physiological and psychological mechanisms related to nutrition and weight control will be included.

PHEC 639 Practicum in Human Performance Programs 1-3 cr.
To provide opportunities for practical experiences within the realm of exercise science by placing individuals in the field for "hands-on" skill development in the working environment.

PHEC 691 Seminar in Health and Physical Education 1-3 cr.

Variable topic seminar. Repeatable for maximum of 3 credits if topics are substantially different.

PHEC 699 Individual Research in Health and P.E. 2-4 cr.

Study of problem in a selected area. Written and oral reports required. Graded or P/N. Repeatable for maximum of 4 credits if topics are substantially different. *Prerequisite: approval of the chair of the department prior to registration.*

PHEC 700 Master's Research Paper or Project variable with a minimum 3 cr.

Individual investigation or project related to the area of concentration and professional education. Enroll in final credit(s) of Master's Research Paper or Project in the semester in which you expect the paper or project to be approved. Should you not complete the paper or project in the final semester, you will receive a CS grade in this course and will be required to re-enroll in a minimum of 1 additional credit of Master's Research Paper or Project each fall and spring semester thereafter until the paper or project is completed. Your progress and the decision of the thesis advisor will determine the number of credits for which you must register. Course is graded P/NC. Repeatable for credit each semester of enrollment up to maximum of 4 credits.

PHEC 710 Thesis variable with a minimum 3 cr.

Intensive investigation of an approved topic in the area of Human Performance. Proposal required prior to registration. Enroll in final credit(s) of Thesis in the semester in which you expect the thesis to be approved. Should you not complete the thesis in the final semester, you will receive a CS grade in this course and will be required to re-enroll in a minimum of 1 additional credit of Thesis each fall and spring semester thereafter until the thesis is completed. Your progress and the decision of the thesis advisor will determine the number of credits for which you must register. Course is graded P/NC. Repeatable for credit each semester of enrollment up to maximum of 4 credits.

History

HIST 503 Imperial Russia 3 cr.

The political, economic, social and cultural history of the Russian empire, from its roots in the ninth-century Kievan state to its fullest expansion under the last Romanov tsar, Nicholas II.

HIST 504 Revolutionary and Soviet Russia 3 cr.

Russia since the revolution of 1905: political developments, both domestic and foreign; economic system and organization; social and cultural evolution.

HIST 515 History of American Women 3 cr.

The experience of all groups of women in America from pre-Columbian times to the present. How female roles are shaped by changing socio-economic circumstances.

HIST 536 Women's Issues in World History 3 cr.

The historical study of the major issues affecting women's lives in the modern age (18th-21st centuries) and across multiple cultures. Variable.

HIST 550 The History of Mexico 3 cr.

The development of Mexican society from the pre-Columbian period to the present. The Aztec and Mayan civilizations, the implanting of Spanish control, the origins of the Mexican Revolution and its long-range impact.

HIST 552 Traditional Africa 3 cr.

The African pre-colonial states; their government, economic systems, cultural patterns, achievements and relations with other African and non-African peoples.

HIST 553 Contemporary Africa 3 cr.

The 20th-century emergence of representative African nations; the achievements of these nations; their current political, economic and social problems.

HIST 555 Latin American Revolutions 3 cr.

Twentieth century revolutions in Latin America. Theories of revolution, the causes, leaders and followers, post-revolutionary developments and the international consequences of Latin American revolutions.

HIST 561 Colonial American, 1607-1763 3 cr.

From settlement of Jamestown through the French and Indian War: European backgrounds, religious development, regional differences, Indian relations and cultural life.

HIST 562 Revolutionary America, 1763-1789 3 cr.

From the conclusion of the French and Indian War to the formulation of the United States Constitution: British-American imperial relations; cultural developments in the 18th century; origins, impact and general nature of the American Revolution; and the formation of the Federal Union.

HIST 563 The Age of Jefferson and Jackson, 1789-1848 3 cr.

From Washington's presidency through the administration of James K. Polk. The philosophies of Hamilton and Jefferson, the origins of political parties, politics of the Jacksonian era, Indian removal, the development of transportation, the frontier and emerging sectionalism.

HIST 564 The Civil War and Reconstruction, 1849-1877 3 cr.

From the end of the Mexican War through the period of Southern Reconstruction: sectionalism, slavery, abolitionism and the social, political, military and economic impact of the War Between the States.

HIST 565 Gilded Age America, 1877-1913 3 cr.

From the presidency of Hayes through the Progressive Era; the labor movement, growth of the city, immigration, imperialism, art and architecture, and politics.

HIST 566 The United States in the 20th Century, 1914-1945 3 cr.

The home front during World War I, post-war reaction, the 1920s, the Stock Market Crash, the Great Depression, the New Deal and American society during World War II.

HIST 567 The United States in the 20th Century, 1945-Present 3 cr.

The Truman, Eisenhower and Kennedy years; the Cold War and McCarthyism; the 1920s, black and student movements; Johnson and Vietnam; Nixon and Watergate; and more recent presidencies.

HIST 575 Genocide and Mass Violence 3 cr.

Genocides of the modern era from that of Herero of German Southwest Africa (early 20th century) to that of Darfur in the Sudan (early 21st century). Variable.

HIST 576 Modern Europe 3 cr.

European history in the modern period, from the Napoleonic era (1799-1815) to the present day, with particular attention to geographic, historical, political and economic distinctions between western and eastern Europe.

HIST 650 History and the Modern Humanities 6 cr.

Introduction to the discipline of history and its function among the humanities. Ethical and moral issues involved in selected historical developments of the 20th century. Political, scientific and social developments crucial to defining and understanding the unique predicament of humanity in the 20th century. Every third summer. *Prerequisite: admission to Modern Humanities Program.*

HIST 651 Research in History and Modern Humanities 3 cr.

Research and preparation of a paper on topic in history growing out of History 650. Every third intersession. *Prerequisite: successful completion of History 650.*

HIST 698 Readings in History 3 cr.

Independent reading under direction of a history department faculty member. Repeatable for maximum of 6 credits if topics are substantially different.

HIST 700 Master's Research Paper/Project in Modern Humanities Var. cr.

Independent research paper or project exploring a 20th-century theme. Enroll in final credit(s) of Master's Research Paper/Project in the summer in which you expect the completed paper or project to be approved. For each registration prior to completion, a CS grade will be given and you will be required to re-enroll in a minimum of 1 additional credit of Master's Research Paper/Project each summer thereafter until the paper or project is completed. Upon completion, the CS grade in the credits contracted for initially will be replaced with a final letter grade (A,B,C or F); additional credits will be graded P/NC. Summers and Intersessions only.

Mathematics

MATH 515 Foundations of Mathematics 3 cr.

Theory of sets, mathematical logic, methods of proof in mathematics, the real number system, selected topics. Fall, even-numbered years. *Prerequisite: MATH 237 or concurrent enrollment in MATH 237.*

MATH 525 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 237.*

MATH 526 Introduction to Complex Analysis 3 cr.

Analytic functions: Cauchy's Theorem, Taylor and Laurent series, meromorphic functions: residue theory, conformal mapping. Variable. *Prerequisite: MATH 237.*

MATH 532 Differential Equations 3 cr.

Solution of ordinary differential equations, Laplace transform, numerical methods, solution by series. Every semester. *Prerequisite: MATH 237.*

MATH 535 Numerical Analysis 3 cr.

Elements of numerical methods frequently used in applied mathematics and the natural sciences, algorithms suitable for use in computers. Variable. *Prerequisites: MATH 237 and COSC 240 or permission of instructor.*

MATH 537 Combinatorics and Graph Theory 3 cr.

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

MATH 540 Modern College Geometry 3 cr.

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

MATH 551 Modern Higher Algebra 3 cr.

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

MATH 552 Linear Algebra 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. *Prerequisite: MATH 237.*

MATH 560 Introductory Topology 3 cr.

The topology of metric spaces, introduction to general topological spaces, the separation axioms, compactness, connectedness. Variable. *Prerequisite: MATH 237.*

MATH 561 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 565 Theory of Numbers 3 cr.

Divisibility, Diophantine equations, congruences, sums of squares, additional topics. Variable. *Prerequisite: MATH 237.*

MATH 570 Mathematical Models and Applications 3 cr.

Model-building processes, the assumptions underlying mathematical models and the generation and interpretation of results from models. Theory and illustrative applications of modeling. Analyses of models constructed by students. Spring. *Prerequisite: MATH 237 or permission of instructor.*

MATH 575 Theory of Secondary Mathematics Education 3 cr.

Theoretical aspects of teaching mathematics at the secondary level. Philosophical and psychological principles of learning mathematics and their application.

MATH 580 Probability and Statistics 3 cr.

A deeper study of probability and statistics. Continuous probability distributions and their statistical applications. Variable. *Prerequisite: MATH 237, MATH 380 or permission of instructor.*

MATH 581 Applied Regression Analysis 3 cr.

A matrix approach to linear and multiple regression using SPSS, selecting the best regression equation, model building and linear model approach to ANOVA and ANCOVA. *Prerequisites: MATH 380 (or MATH 209) and MATH 350 or permission of instructor.*

MATH 582 Applied Nonparametric Statistics 3 cr.

Sign tests; tests based on ranking methods, including correlation and regression; nonparametric confidence intervals and point estimates; chi-square tests; and efficiency estimates. *Prerequisite: MATH 209 or MATH 219 or MATH 380.*

MATH 590 Selected Topics in Mathematics 3 cr.

A specialized topic or recent development in mathematics. Does not duplicate any other course offered by the Department of Mathematics. Repeatable for maximum of 6 credits if topics are substantially different. Variable. *Prerequisite: MATH 237 or permission of instructor.*

MATH 591 Seminar in Mathematics 3 cr.

Individual reports and group discussions on mathematical topics and applications. Written project required. *Prerequisite: permission of instructor.*

MATH 592 Internship Seminar 3 cr.

Academic component of internship. Requires co-registration in 595. Graded A-F.

MATH 595 Internship in Mathematics 6 or 12 cr.

Experiential component of internship; guided work experience with MATH 592; must directly relate to academic program. Full-time interns register for 12 credits in MATH 595 and 3 credits in MATH 592. Graded P/F. Variable. *Prerequisites: good academic standing, submission of the Internship Agreement form to the internship director prior to registering, completion of MATH 236 and 237 and four math courses at 300 or 500 level (or enrollment in the fourth 300- or 500-level mathematics course at time of application), GPA of at least 3.0 in mathematics and any requirements of the sponsoring agency.*

MATH 680 Research Statistics 3 cr.

Applied statistical methods. Experimental design, analysis of variance, multiple regression and correlation. *Prerequisite: MATH 209 or equivalent.*

MATH 690 Current Concepts in Mathematics Education 3 cr.

Secondary school mathematics teaching. Development of units of instruction, methods of informal evaluation, contemporary learning theories, trends in secondary school mathematics curricula and teaching strategies.

MATH 698 Reading in Mathematics 3 cr.

Library research and individual study.

MATH 699 Individual Research in Mathematics 3 cr.

Selected advanced topics in mathematics. Repeatable for maximum of 9 credits if topics are substantially different.

MATH 700 Master's Research Paper or Project 3 cr.

An individual investigation or project related to the area of concentration and professional education.

MATH 710 Thesis in Mathematics 6 cr.

A research project in mathematics. Written report and oral presentation required.

MBA

MBA Essentials:

BUAD 507 Essentials: Accounting and Finance 3 cr.

An introduction to accounting and finance. Topics include understanding the accounting cycle; the preparation of income statements, balance sheets, statements of retained earnings and statements of cash flow; GAAP; cost behaviors; time value of money; capital budgeting; and capital markets.

BUAD 508 Essentials: Management and Marketing 3 cr.

Basic overview of the management and marketing functions carried out in organizations. Focus is on the basic components of each discipline and how the two are linked in successful organizations.

BUAD 509 Essentials: Quantitative Analysis 3 cr.

Quantitative issues relevant for business. Topics include basic statistics, probability distributions, hypothesis testing, ANOVA, regression, Chi-Square and nonparametric tests. Offered every semester.

Required MBA Courses:

ACCT 540 Financial Accounting 3 cr.

Overview of financial accounting, financial statements and financial reporting issues. Importance of accounting as the language of business. Construction of financial statements and cash budgets. Evaluation of financial condition through ratio and trend analysis. Ethical issues. Other financial topics. *Prerequisite: BUAD 507.*

ACCT 546 Managerial Accounting 3 cr.

Overview of management accounting and its use in managerial decision making. Behavior of costs and their impact on organizational planning and control. Responsibility accounting and budgeting. Capital budgeting and present value analysis. Other managerial topics. *Prerequisites: ACCT 540, BUAD 507.*

BMIS 607 Information Management in Organizations 3 cr.

Employs information technology to support organizational decision making through data collection, integration and conveyance. Explores how the process is influenced by factors both internal and external to the organization. Examines challenges to information system efficacy, assessment of structural and process sufficiency and conduct of cost/benefit assessment of existing systems, as well as of prospective improvements.

ECON 511 Economics for Managers 3 cr.

Explores fundamental economic concepts and their relevance to organizational performance, and addresses the linkage between economic variables and normal and organizational decisions. Examines economic decisions by the firm made within the global environment. Students apply tools for both micro-economic and macro-economic analysis.

FINA 610 Financial Management 3 cr.

Uses analytical tools and concepts utilized by managers to make the financial decisions consistent with the goals of the firm through the application of selected cases, research project and problems. Topics such as Working Capital Management, Cost of Capital, Capital Structure, Capital Budgeting, Lease Analysis and Risk Analysis will be addressed. *Prerequisites: ACCT 540, BUAD 507.*

MGMT 510 The Leadership Process 3 cr.

Utilizes self-awareness as a framework for individual development; examines personality and behavioral differences. The course also analyzes the application of leadership skills needed for organizational effectiveness in a global world of continuous change.

MGMT 512 Management Decision Analysis 3 cr.

Overview of management decision science. Utilizes various analytic tools and statistical techniques. Topics include data analysis, spreadsheets and statistical programs, decision theory, optimization, forecasting, regression analysis, hypothesis testing, problem solving and decision making. *Prerequisite: BUAD 509.*

MGMT 542 Organizational Behavior 3 cr.

Examines management of individual behavior and groups/teams as related to performance

management, motivation, leadership, power and influence, group dynamics, teamwork and organizational structure and change for adaptation in unpredictable and ambiguous situations. Topics also include goal setting, employee socialization, training, delegation, coaching/mentoring and performance models and tools. *Prerequisite: undergraduate business background or BUAD 508.*

MGMT 620 Strategic Human Resource Management 3 cr.

Integrates the macro and micro perspectives of Human Resource Management; examines the vital role of acquiring and retaining individuals with the skills, knowledge and abilities needed to accomplish the tasks necessary for achievement of organizational strategic goals. The course also discusses the ethical issues associated with HR responsibilities, and emphasizes motivating individuals to exhibit the behaviors (performance) essential to overall organizational success in the global environment. *Prerequisite: BUAD 508.*

MGMT 680 Strategic Integration 3 cr.

The development of a useable, integrated, comprehensive analysis process and model applicable to a broad range of management contexts and situations through the in-depth oral and written analysis of one complex, multiple strategic issue case that requires, for assurance of learning purposes, the use and integration of knowledge, techniques, skills and dispositions developed in the prerequisite course. *This course and/or MGMT 690 must be taken in the student's last semester in the program. If a student is taking only MGMT 680 in his or her last semester, then MGMT 690 must be taken in the preceding semester.*

MGMT 690 Strategic Change Management 3 cr.

Techniques for strategic change will be examined and practiced concurrently with the student's development of an organization-based change proposal. This experience will culminate in a rigorous integration of the analysis, diagnosis and presentation stages of a planned, systemic change *proposal* to a client. Candidates for the MBA are evaluated by the faculty during this semester to ensure that communication, presentation and analysis skills in the behavioral sciences are likely to lead to team participation and/or managerial successes. *This course and/or MGMT 680 must be taken in the student's last semester in the program. If a student is taking only MGMT 690 in his or her last semester, then MGMT 680 must be taken in the preceding semester.*

MGMT 691 Seminar in Management 3 cr.

Specific management topic not covered in the regular curriculum. Offered in response to petition of seven or more students. Does not apply to MBA requirements. Repeatable for maximum of 6 credits if topics are substantially different.

MGMT 699 Individual Research in Management 3 cr.

Directed study for topics and issues not covered in the regular curriculum. Does not apply to MBA requirements. Open to undergraduates. Repeatable for maximum of 6 credits if topics are substantially different. *Prerequisites: Approval of department chair and submission of independent study request.*

MKTG 640 Marketing Management 3 cr.

Development of issues relative to customer/client wants and needs, product and/or service design, and communication of information about the product or service to customers/clients. *Prerequisite: BUAD 503.*

Music

MUSC 590 Special Topics in Music Education .5- 6 cr.

A selected aspect of music education. Subject varies; see Academic Schedule for specific titles. Repeatable for maximum of 12 credits if topics are substantially different. *Prerequisite: permission of instructor.*

MUSC 599 Individual Research in Music 1-6 cr.

Intensive individual study in an area of special interest under the direction of a staff member. Repeatable for maximum of 12 credits. Fall only. *Prerequisite: permission of the chair of the department.*

PHILOSOPHY

Philosophy

PHIL 650 Philosophy and the Modern Humanities 6 cr.

In light of the technological changes affecting rights and obligations in interpersonal relationships, in the professions and in specific political and economic structures; special attention is given to moral responsibility as a particular concern of 20th century philosophy. Topics include equality as an issue of social justice, the effect of technology upon moral dilemmas (especially upon biomedical ethics and human behavior in war) and political/ideological influences upon ethical judgment. Every third summer. *Prerequisite: admission to Modern Humanities program.*

PHIL 651 Research in Philosophy and Modern Humanities 3 cr.

Research and preparation of a paper on a topic in philosophy growing out of Philosophy 650. Every third Intercession. *Prerequisite: successful completion of Philosophy 650.*

PHIL 700 Master's Research Paper/Project in Modern Humanities var. cr.

Independent research paper/project exploring a 20th-century theme. Enroll in final credit(s) of Master's Research Paper/Project in the summer in which you expect the completed paper or project to be approved. For each registration prior to completion, a CS grade will be given and you will be required to re-enroll in a minimum of 1 additional credit of Master's Research Paper/Project each summer thereafter until the paper or project is completed. Upon completion, the CS grade in the credits contracted for initially will be replaced with a final letter grade (A,B,C or F); additional credits will be graded P/NC. Summers and Intercessions only.

Physics

PHYS 590 Special Topics 1-4 cr.

Designed for in-service physics/science middle and high school teachers. Active physics learning, research-based workshops to enhance content, constructivist learning and teaching, use of technology, demonstrations and assessment. Repeatable for credit if topics are substantially different. Summer only.

Political Science

POSC 522 American Constitutional Law I 3 cr.

A study of the Constitution of the United States as defined in the principal decisions and opinions of the courts, with emphasis on the relationship between the federal government and the state governments and among the three branches of the federal government.

POSC 523 American Constitutional Law II 3 cr.

A study of the Constitution of the United States as defined in the principal decisions and opinions of the courts, with emphasis on the relationship of the individual to the federal and state governments.

POSC 527 The American Presidency 3 cr.

An analysis of the modern American presidency. It emphasizes the president's interaction with the bureaucracy and Congress in the making of American public policy, both domestic and foreign. Topics include the evolution of the president's role in the American political system, the nature of presidential power and the impact of the president's personality and the growth of the White House staff on executive leadership and decision making.

POSC 571 American Political Thought 3 cr.

Analytical study of the evolution of political ideas and institutions in the United States from the colonial period to the mid-20th century. Topics include our Puritan and Enlightenment heritage, the impact of political reform movements and themes in American policy.

POSC 591 Seminar in Political Science 3 cr.

Lectures, discussions, student reports, research techniques, criticism, interpretation. Individual research (senior thesis) on a common topic, with interim reports and final formal presentation of a paper. *Prerequisite: written permission of instructor.*

POSC 598 Readings in Political Science 1 to 6 cr.

Individual advanced readings on a special interest. Regular conference with instructor. Repeatable for maximum of 6 credits if topics are substantially different. Every semester. *Prerequisites: two of the following: POSC 110, 211, 321; plus written permission of instructor.*

POSC 698 Readings in Political Science 3 cr.

Advanced readings and independent study in a topic of advanced special interest. Repeatable for maximum of 6 credits if topics are substantially different. *Prerequisites: permission of instructor, graduate standing.*

Psychology

Graduate students in the M.S. Counseling Psychology program will be given priority enrolling in all graduate-level psychology courses. If you have not been admitted to the M.S. Counseling Psychology program, then you will need to be granted permission by the instructor to take any of the courses listed as graduate-level courses.

PSYC 504 Psychology of the Exceptional Child 3 cr.

Developmental and behavioral characteristics of exceptional children as they relate to inclusion, classroom management, federal laws and psychological treatment. Topics on exceptional children include mental retardation, physical disabilities, giftedness, emotional problems and autism. *Prerequisite: PSYC 210/212 or permission of instructor.*

PSYC 508 Tests and Measurements 3 cr.

Psychological and educational tests, their validity, reliability, scale transformation, norms and standardization. Administration, uses and interpretation of various instruments of assessment. *Prerequisites: PSYC 150/151 and 3 additional credits in psychology or permission of instructor.*

PSYC 510 Introduction to Counseling 3 cr.

Practical and theoretical foundation for further study. The nature of helping relationships, conditions for counseling, stages in the counseling process and the counselor as a professional helper. Role playing, audio and video tape experiences, and related skill-development exercises. *Prerequisites: PSYC 150/151 and 3 additional credits in psychology or permission of instructor.*

PSYC 514 Theories of Personality 3 cr.

General survey of the principal theories and research concerning the nature and development of personality. Variable. *Prerequisite: PSYC 150/151, PSYC 210/212 or permission of instructor.*

PSYC 520 Physiological Psychology 3 cr.

Characteristics of the nervous and endocrine system and their relationship to human behavior. Variable. *Prerequisites: PSYC 150/151 and 3 additional credits in psychology or permission of instructor.*

PSYC 530 Health Psychology 3 cr.

Psychological principles applied to the promotion and maintenance of health, the prevention and treatment of illness and changing public opinion about health-related matters. Behavioral components of health risk factors and improvement of the health care system are addressed. Variable. *Prerequisites: PSYC 150/151 and 3 additional credits in psychology or permission of instructor.*

PSYC 540 Survey of Family Psychology and Intervention Issues 3 cr.

General survey of the principal theories and research about family interaction patterns and interventions with families. Areas discussed include systems approaches, family life cycle development, social forces affecting families and mental health issues, including substance abuse/dependency. *Not intended to prepare students to provide family therapy. Does not meet program requirements for M.S. Counseling Psychology students. Prerequisites: one developmental course and graduate standing.*

PSYC 544 The Male Experience 3 cr.

Examination from a gender-sensitive perspective of factors affecting the development of male behavior in American society. Emphasis on the contributions of psychology to understanding gender-related developments; contributions of other social sciences and biology are also incorporated. Topics include work, sports, male-female relations, friendship, minority experience, sexuality, power. Three hours lecture, discussion. Variable. *Prerequisites: PSYC 150/151 and 3 additional credits in psychology or permission of instructor.*

PSYC 550 Multicultural Counseling Issues**3 cr.**

Introduction to the issues of gender, class, race, culture, sexual orientation and physical ability, as these variables may influence their ability to be present and counsel individuals who are different from themselves. Students will examine between and within group differences in light of various social, cultural, historical and political contexts. The goals of this course are to increase student awareness of self and others as cultural beings and gain knowledge about various cultural groups in the United States. *Prerequisite: PSYC 150.*

PSYC 570 Research Methods Applications**4 cr.**

Application of univariate and multivariate research methods and statistical procedures to analyze data from research projects in psychology and related fields. Instruction in computer data analysis and professional presentation to prepare students for work and graduate study. Lab required. Fall. *Prerequisite: PSYC 300/301 or permission of instructor.*

PSYC 581 History and Systems**3 cr.**

Historical foundations of the discipline of psychology. Survey of recent and current systems of theoretical ideas in psychology. Attention to the roots of the discipline in philosophy and science, consideration of the work of great psychologists and associated systems. Variable. *Prerequisites: PSYC 150/151 and 3 additional credits in psychology or permission of instructor.*

PSYC 585 Behavioral Approaches to Human Problems**3 cr.**

Therapeutic application of learning principles to problems in the behavior of children and adults; normal childhood development; education and habit disorders; depression, severely disordered behavior, anxiety; and sexual problems in adults. Behavioral assessment, behavior change programs and evaluation of such programs. Individual research and project required. Variable. *Prerequisites: PSYC 150/151 and 3 additional credits in psychology or permission of instructor.*

PSYC 590 Special Topics in Psychology**1-4 cr.**

Either a practicum to develop psychological skills or a content-oriented course to provide a critical appraisal of a selected topic, as announced. Does not duplicate any other course offered by the Department of Psychology. Four credits when 5 contact hrs. are required (such as 2 hrs. lab and 3 hrs. lecture). Repeatable for maximum of 12 credits if topics are substantially different. Variable. *Prerequisites: PSYC 150/151 and 3 additional credits in psychology or permission of instructor.*

PSYC 591 Seminar in Psychology**3 cr.**

Oral reports on a selected theme topic presented and discussed by students in a group setting. Written reports may also be required. Attendance at all seminar meetings expected. May be repeated for credit if topics are substantially different. Variable. *Prerequisites: PSYC 150/151 and 3 additional credits in psychology or permission of instructor.*

PSYC 600 Introduction to Counseling and Assessment**3 cr.**

Practical and theoretical foundation for further study. The nature of helping relationships, conducting clinical assessment, psycho-social assessment, mental status exam, dynamic formulation, stages in the counseling process and the counselor as a professional helper. Role playing, audio and/or video tape experiences, and related skill-development exercises. *Prerequisites: Enrollment limited to students admitted to the M.S. in Counseling Psychology program or permission of instructor.*

PSYC 602 Advanced Research Evaluation and Interpretation**3 cr.**

Analysis of research design theory and practice. Development of skills to evaluate and apply research to counseling (practice). *Enrollment limited to students admitted to the M.S. in Counseling Psychology program or permission of instructor.*

PSYC 610 Small Group Dynamics/ Introduction to Group Counseling**3 cr.**

Small group process, including leadership, early and later stages in the development of a group; application and integration of group counseling theories and techniques. Participation in lab exercises required. *Prerequisite: PSYC 410 or PSYC 510. Enrollment limited to students admitted to the M.S. in Counseling Psychology program or permission of instructor.*

PSYC 614 Advanced Developmental Psychology**3 cr.**

General survey of the principle theories and research concerning human development. Areas discussed include psychosocial, cognitive and physical development. The clinical implications of development are considered. *Prerequisites: Undergraduate developmental psychology*

course and admission to the M.S. in Counseling Psychology program or permission of instructor.

PSYC 616 Psychological Issues in Career Counseling**3 cr.**

The interconnectedness of work/career issues to the other facets of an individual's life, providing a framework for understanding how psychological issues affect one's ability to function effectively in the workplace, and, in turn, how work-related issues affect one's non-work existence. Development of career counseling and assessment skills.

PSYC 617 Adult Psychopathology**3 cr.**

Examination of the nature, classification and etiology of adult mental disorders. Biopsychosocial approach is emphasized, and evidence-based treatment is considered. *Prerequisite: undergraduate abnormal psychology or permission of instructor.*

PSYC 618 Child Psychopathology**3 cr.**

Examination of the nature, classification and etiology of child/adolescent emotional and behavioral disorders. Developmental psychopathology and biopsychosocial approaches are emphasized. Evidence-based treatment is considered. *Enrollment limited to students admitted to the M.S. in Counseling Psychology program or permission of instructor. Prerequisite: PSYC 614.*

PSYC 619 Professional, Ethical and Legal Issues in Counseling**3 cr.**

Professional standards, legal standards and ethical issues and practices in counseling, including substance abuse counseling.

PSYC 625 Counselor as a Person**3 cr.**

Exploration of the interface between the person of the counselor and the professional role demands. Focus on elements and issues in the personal and professional arenas of the counselor's life as they impact ability to function effectively in the counseling process. Emphasizes self-awareness and maintenance of balance and healthy boundaries as essential components of ethical practice. Not open to students who have received credit for the former EDUC 590 or PSYC 692 special topics Counselor as a Person course. *Prerequisite: PSYC 510 or 600, SCCO 600 or permission of the instructor.*

PSYC 630 Theories and Techniques of Counseling I**3 cr.**

Evidence-based theory and treatment strategies. Emphasis on in-class practice. *Enrollment limited to students admitted to the M.S. in Counseling Psychology program or permission of instructor. Prerequisite: PSYC 600.*

PSYC 640 Theories and Techniques of Counseling II**3 cr.**

Advanced evidence-based theory and treatment strategies. Emphasis on in-class practice. *Enrollment limited to students admitted to the M.S. in Counseling Psychology program or permission of instructor. Prerequisite: PSYC 630.*

PSYC 650 Family Therapy**3 cr.**

Emphasis on evidence-based family therapy approaches. *Enrollment limited to students admitted to the M.S. in Counseling Psychology program or permission of instructor. Prerequisites: PSYC 600, PSYC 614, PSYC 618 and PSYC 630.*

PSYC 660 Individual Assessment**3 cr.**

Study and application of Intelligence scales and other instruments for evaluating characteristics of the individual. Case-appropriate use of materials for intellectual assessment will be emphasized with the opportunity to expand into aptitude, achievement, interests, personality assessment. *Enrollment limited to students admitted to the M.S. in Counseling Psychology program or permission of instructor. Prerequisites: PSYC 408 or PSYC 508, and PSYC 600.*

PSYC 670 Multicultural Counseling Techniques**3 cr.**

Focuses on developing skills and a conceptual framework that will enhance the student's ability to counsel individuals of diverse cultural backgrounds. Self-understanding and its effect on cross-cultural relationships will also be emphasized. *Prerequisites: PSYC 600, SCCO 600 or permission of instructor.*

PSYC 680 Advanced Treatment Strategies With Children, Adolescents and Families**3 cr.**

Emphasis on evidence-based treatment approaches for children, adolescents and their families. *Enrollment limited to students admitted to the M.S. in Counseling Psychology program or permission of instructor. Prerequisites: PSYC 600, PSYC 614, PSYC 618, PSYC 630 and PSYC 650.*

RECREATION AND PARKS MANAGEMENT

PSYC 686 Addictions Issues and Treatment 3 cr.

Practical application of research and theory to addiction counseling. Overview of treatment-related issues, including assessment and diagnosis. Review of psychopharmacology. *Prerequisite: PSYC 410/510 or 600, or permission of instructor.*

PSYC 692 Advanced Seminar in Counseling 3 cr.

Advanced study in major topic areas of counseling. Repeatable for maximum of 9 credits if topics are substantially different. *Enrollment limited to students admitted to the M.S. in Counseling Psychology program or permission of instructor. Prerequisite: permission of instructor.*

PSYC 695 Internship in Counseling 5-12 cr.

On-site supervised experience in vocational, educational and psychological counseling. Integration of counseling skills, theory, ethics and practices. Between 15 and 36 hours per week. Graded Pass/Non Pass. *Prerequisites: all program requirements completed except PSYC 692; permission of instructor.*

PSYC 696 Advanced Internship in Counseling 5-12 cr.

Continuation of PSYC 695. Placement in appropriate on-the-job, on-site supervised situations. Repeatable for credit each semester of enrollment. Graded Pass/Non Pass. *Prerequisite: completion of PSYC 695.*

PSYC 698 Readings in Psychology 1-6 cr.

Advanced individualized study under direction of faculty. Summaries and conclusions to form required written report. Usual credit 1-3 hrs. Repeatable for maximum of 9 credits if topics are substantially different. Proposal required. *Prerequisite: graduate standing.*

PSYC 699 Individual Research in Psychology 1-6 cr.

Research, practicum or other individualized learning experience, directed by faculty. Reading and group setting projects ineligible (see PSYC 698 and 490/491). Formal written report required. Usual credit 1-3 hrs. Repeatable for maximum of 9 credits if topics are substantially different. Proposal required. *Prerequisite: graduate standing.*

Recreation and Parks Management

Health

HLTH 505 Human Sexuality 3 cr.

Content and topics related to sexual and reproductive health relative to the individual and society. Spring.

HLTH 600 Public Health Practice 3 cr.

Foundations of community/public health concepts, practices, settings and professional responsibilities and competencies. Spring.

HLTH 603 Foundations of Health Behavior 3 cr.

Introduction and examination of the models, theories and research related to effective methods of motivating and facilitating positive health behavior changes and practices within individuals and populations. Fall.

HLTH 609 Health Communications and Resources 3 cr.

Identification, development, design and delivery of information intended to positively impact the health, health behavior and decision making of individuals and populations.

HLTH 693 Field Work in Health Agencies 1-6 cr.

Field study and participation in planned programs of official and voluntary health agencies. Repeatable up to 6 hrs. Offered as needed.

Recreation

RECR 593 Field Experience in RPM 3-6 cr.

A guided work experience directly related to the student's academic program. Course does not count toward degree requirements.

RECR 611 Concepts and Foundations of Leisure 3 cr.

A study of recreation and leisure behavior, including concepts, theories and terminology. Emphasizes a historical and literary examination of the park and recreation field as a social movement and as a leisure industry.

RECR 641 Managing Open Space Resources 3 cr.

Focus on the integration of the subsystems that comprise a resource management plan from a recreational perspective, including geology, soils, topography, vegetation, wildlife, hydrology, water quality, historical, cultural and archeological resources.

RECR 642 Land Use Strategies for Conservation and Protection 3 cr.

Develops an understanding of the public powers commonly used to protect and conserve open space, historic and cultural resources, and public park and conservancy lands from threats of development and encroachment. *Prerequisite: RECR 641.*

RECR 651 Organizational Behavior and Leadership in RPM 3 cr.

Addresses organizational behavior and leadership, including the following topics: management by objectives, total quality management, time management, conflict management, group dynamics, relationship to boards and commissions, and motivating employees.

RECR 652 Fiscal Management in RPM 3 cr.

Addresses obtaining, allocating and reporting funding. Topics include planning strategies, fiscal planning, budget development, financial management tools, enterprise accounts, contracts and grants.

RECR 653 Communications and Organizational Decision Making in RPM 3 cr.

Focus on understanding the development and role of the executive as a decision maker and leader within an organization and on the development of oral and written communication skills at the executive level.

RECR 654 Developing Promotional Information Systems in RPM 3 cr.

Focus on the development of information systems to promote the agency and its programs. Topics include client-oriented marketing, needs assessments, promotion and public relations.

RECR 655 Current Management Issues in RPM 3 cr.

Focus on topics of special interest to managers in RPM, such as personnel management, the changing work place, trends in leisure services, changing role and scope of public park and recreation agencies, legal issues, contracts, negligence, liability, risk management and emerging human resource issues. *Prerequisites: RECR 651, 652, 653, 654.*

RECR 681 Research Methods in RPM 3 cr.

Provides an introduction to research methods used in the RPM field.

RECR 682 Evaluation and Statistics in RPM 3 cr.

Examines evaluation techniques and basic statistics used in the RPM field. *Prerequisite: RECR 681.*

RECR 683 Thesis Preparation 3 cr.

Assists students in developing their research problem or thesis, including the statement of the problem, review of the literature and methodology. *Prerequisites: RECR 681, 682.*

RECR 694 Mentorship Program in RPM 3 cr.

A guided experience under the direct supervision of a leader in the field. Course does not count toward degree requirements.

RECR 699 Individual Research in RPM 3 cr.

An individual investigation or project related to the area of concentration of the student. Course does not count toward degree requirements.

RECR 700 Research Project of Thesis variable with a minimum of 6 cr.

Individual investigation, case study or project related to the area of concentration and professional education. Enroll in final credit(s) of this course in the semester in which you expect the paper or project to be approved. Should you not complete the thesis or project in the final semester, you will receive a CS grade in this course and will be required to re-enroll in a minimum of 1 additional credit of this course each fall and spring semester thereafter until the paper or project is completed. Your progress and the decision of the thesis advisor will determine the number of credits for which you must register. Course is graded P/NC. *Prerequisite: RECR 683 or permission of instructor.*

Social Science

SOSC 700 Master's Research Paper or Project 3 cr.
An individual investigation or project related to area of concentration and professional education.

Sociology

SOCI 536 Sociological Aspects of Mass Communication 3 cr.
The social development of the mass media, societal influences upon them and their effects upon society. *Prerequisite: 9 hrs. of sociology or permission of instructor.*

SOCI 542 Juvenile Delinquency 3 cr.
The social causes and consequences of juvenile delinquency. Juvenile law, the police, courts and correctional institutions. *Prerequisite: SOCI 100 or SOCI 111.*

SOCI 568 Sociology of Later Life 3 cr.
The dimensions of aging, including the aging process, the implications of increasing life expectancy and societal reactions to the aged. *Prerequisite: SOCI 100 or SOCI 111.*

SOCI 591 Seminar in Sociology 3 cr.
Advanced studies in selected topics. Individual study and research for class reports. Formal paper required. *Prerequisite: permission of instructor.*

SOCI 599 Individual Problems in Sociology 1-3 cr.
Special research project open to any upper-level student who submits a proposal, prior to the semester of the project, to the professor who will supervise the project. Department chair's written approval of the project is required. Formal report of the study is required and filed. Repeatable for maximum of 6 credits if topics are substantially different. *Prerequisite: permission of the instructor.*

SOCI 625 Community Analysis for Administrators 3 cr.
Appraisal of community theory; practical applications of research to community reconnaissance. The role of community information and personnel in decision making. *Prerequisite: enrollment in the University of Maryland Administration Doctoral program.*

Theatre

THEA 500 Theatre Production 3-6 cr.
Practical application of the principles of theatre production on the advanced level, involving participation in actual production, classes and workshops of university-affiliated professional theatre. May be repeated to a maximum of 9 credits. *Permission of department required.*

THEA 590 Special Topics in Theatre 1-6 cr.
Research or applied experience on an announced selected topic. May be repeated to a maximum of 6 credits. *Permission of department required.*

THEA 593 Field Work in Theatre Practice 1-3 cr.
Participation in production and/or management for an approved theatre, or for an organization in a related communication field. Participants in university-affiliated theatre may be eligible. May be repeated to a maximum of 6 credits. *Permission of department required.*

THEA 699 Individual Research in Theatre 1-6 cr.
Individual research in a topic related to theatre. Topic and study outline to be approved by department chair prior to registration. Written and oral reports required. Can be repeated to a total of 6 credits.



Personnel Register

Personnel information current as of 5/1/10.

Administration

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USM Bylaws, Policies and Procedures of the Board of Regents

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 perma-

nent 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.

University Procedures for Review of Alleged Arbitrary and Capricious Grading

Grounds for Grievance

The following procedures implement the University System of Maryland Policy for Review of Alleged Arbitrary and Capricious Grading (BOR III-1.20) and are designed to provide a means for a student to seek review of final course grades alleged to be arbitrary and capricious. In this policy the term *arbitrary and capricious* grading means 1) the assignment of a course grade to a student on some basis other than performance in the course; 2) the assignment of a course grade to a student by unreasonable application of standards different from the standards that were applied to other students in that course; or 3) the assignment of a course grade by a substantial and unreasonable departure from the instructor's initially articulated standards.

Alleging a final grade to have been determined in an arbitrary and capricious manner is the sole ground upon which a student may seek review under these procedures. Since matters within the instructor's sphere of academic judgment — such as choice of instructional and evaluation methods, criteria, and standards for evaluation — are not grounds for grievance, the burden of proving arbitrary and capricious grading by clear and convincing evidence will rest with the student.

How to Undertake a Grade Grievance

Students or faculty who desire additional information about the procedures that follow should contact the Assistant to the Provost.

Stage I: Mediation

A student seeking review for a final grade in a course should make a reasonable effort to confer with the instructor and attempt to resolve the matter informally. If this effort is

unsuccessful, the student approaches the chair of the department offering the course to request mediation of the grade dispute. This action must be taken no later than the 15th class day of the semester subsequent to the term in which the grade was received. The chair will inform the student of the grounds proper to a grade grievance, as stated above. The chair also will review relevant material and consult with the instructor in an effort to resolve the issue of the grade. (If the instructor involved is the chair, the student approaches the senior faculty member in the department to request mediation.)

In cases where a resolution mutually acceptable to the student and the instructor is not forthcoming, and the student wishes to pursue a formal grievance, the student may proceed to Stage II.

Stage II: Formal Grievance

As a precondition to filing a formal grievance, a student must fulfill all of his/her responsibilities and meet the deadline specified in Stage I: Mediation above.

By the end of the 30th class day of the semester, a student wishing to grieve a grade must file a written grievance with the instructor's school dean. This grievance must describe in detail the bases for the allegation that the grade was arbitrary and capricious, and include all evidence supporting that claim. The student must send copies of this statement to the instructor and the chair.

The dean will dismiss the grievance if the student 1) did not participate in Stage I: Mediation and/or meet the deadline specified in Stage I; 2) did not file the Stage II appeal by the stated deadline; 3) does not furnish evidence that the allegations, if true, constitute arbitrary and capricious grading, as defined above; and/or 4) has filed a complaint concerning the same grade with the Office of Affirmative Action/EEO alleging discrimination or sexual harassment.

If the grievance is not dismissed, the dean shall ask the instructor to respond to the grievance in writing within ten class days, addressing the response to the dean and copying the student and the chair. The dean will ask the chair to forward all documentary evidence collected during the mediation stage to the dean.

If the grievance is not dismissed, the dean shall appoint within ten class days a grade grievance committee of three tenured faculty members and shall schedule an informal, non-adversarial grade grievance hearing. The student, the instructor, and the chair will be invited to attend the hearing, and may present relevant evidence. The dean also will attend and may choose to participate in the discussion. In keeping with the informal nature of the hearing, neither the student nor the instructor may be accompanied by a representative or advisor. If the academic records of other students in the grievant's class are relevant to the discussion, the grievant must be excused for that portion of the hearing in order to protect the privacy of other students. At the conclusion of the hearing, the committee shall forward its recommendation to the dean, who may accept, reject or alter the recommendation. The dean shall render a decision to the student in writing, either in support of the original grade or of a grade change. If the dean recommends a grade change and the instructor refuses to change the grade, the dean will vacate and replace the grade in question.

In deciding whether the circumstances justify changing the grade, the dean shall determine whether the grievant has provided clear and convincing evidence of *arbitrary and capricious* grading. Copies of the dean's decision, which shall be final, will be filed with the instructor and the chair.

Student Records Annual Notification

Under the Family Educational Rights and Privacy Act (FERPA), students have certain rights regarding the inspection and disclosure of education records directly related to the student and maintained by the University. These rights include:

1. The right to inspect and review the student's educational records within forty-five (45) days of the day the University receives a request of access. Requests for inspection should be made in writing and directed to the Office of the Registrar.
2. The right to request an amendment of the student's education records if the student believes that they are inaccurate, misleading or otherwise in violation of the student's privacy rights under FERPA. . A request to amend education records must be made in writing and submitted to the Registrar. The request must clearly identify the part of the record the student wants changed and why it should be changed. If the University decides not to amend the record as requested, the University will notify the student of its decision, and if the decision is negative, the procedures for a hearing regarding the request.
3. The right to consent to disclosures by the University of personally identifiable information contained in the student's education records, except to the extent FERPA authorizes disclosure without consent.
The University discloses education records without a student's prior written consent under several exceptions to FERPA, including the exception for disclosure to school officials with legitimate education interests. A school official has a legitimate educational interest if the official needs

to review an education record in order to fulfill professional responsibilities for the University. A "school official" is any person employed by the University in any administrative, supervisory, academic, research or support staff position; any person or company with whom the University has contracted (such as an auditor or collection agent); or any student serving on an official committee such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

Upon request, the University also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

The following categories of information are considered by the University to be directory information and may be disclosed without the student's prior consent unless the student submits a Directory Restrictions Form using PAWS: Name; local, home and email address; local and home telephone number; major field of study; classification; dates of attendance, degrees, honors and awards received; officially recognized activities and sports; weight and height for athletes; and most recent school or educational institution attended.

The Directory Restrictions Form in PAWS can be found using the following path: Student Center>User Preferences>FERPA restrictions>Edit FERPA Directory Restrictions.

Note that directory information may be released to commercial organizations and may be used for solicitation purposes. However, restricting release of directory information will prevent the University from providing such information to prospective employers and other organizations, media, friends and family.

4. A student may permit inspection of education records by parents, guardians or others by completing a Release of Information Form in PAWS on an annual basis. The form can be found using the following path: Student Center>"other academics" drop down box> Release of Information.

Release of Information Forms are purged at the completion of each academic year. If a student wishes to permit inspection of education records for the upcoming academic year, a new form must be completed.

5. The right to file with the U.S. Department of Education a complaint if the student believes that the University has failed to comply with the requirements of FERPA. Complaints may be filed with the Family Policy and Regulations Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC, 20202-5901.

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Welcome to Frostburg State University

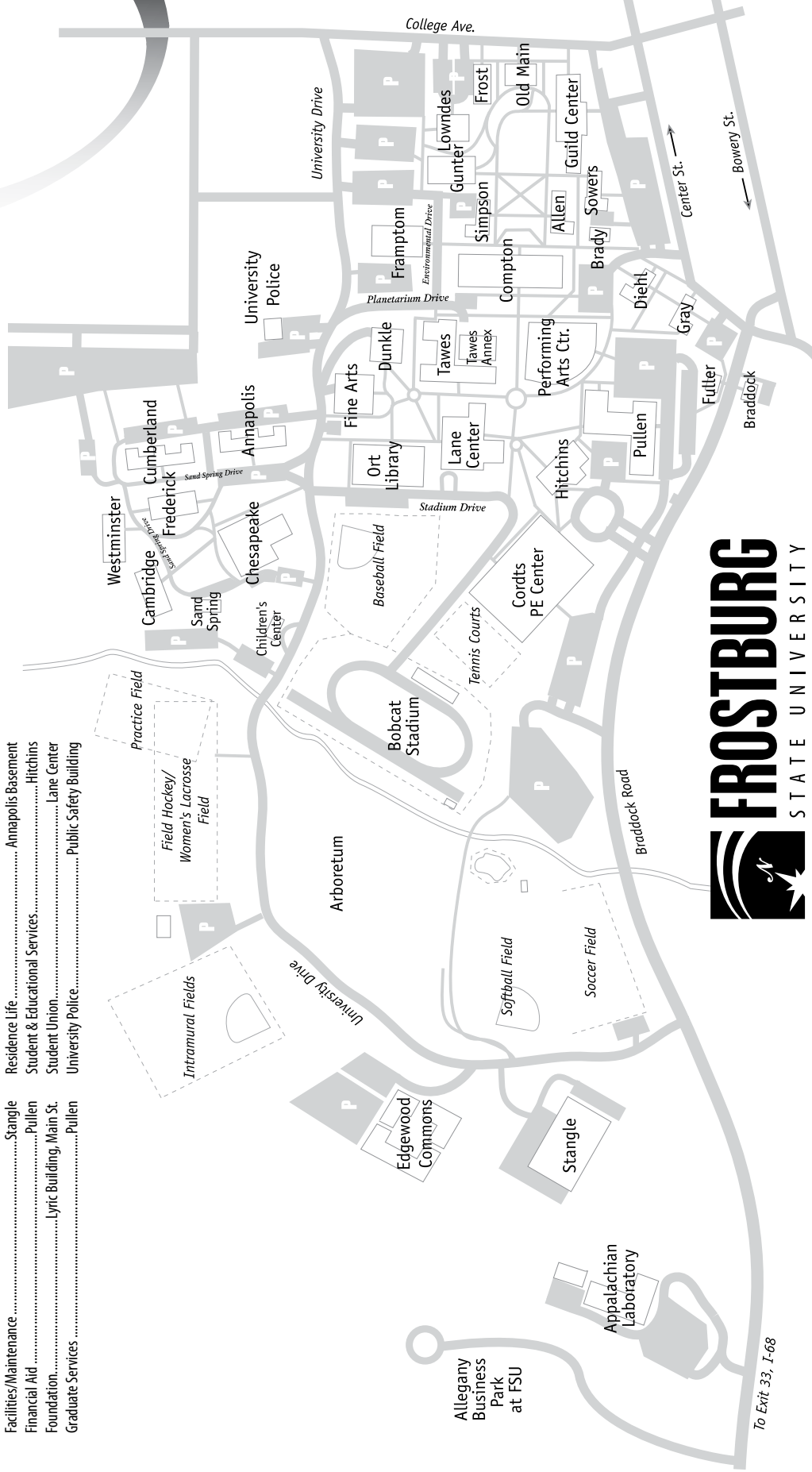
Office Directory

Administrative Offices.....	Hitchins
Admissions.....	Pullen
Advancement.....	Lyric Building, Main St.
Alumni.....	Lyric Building, Main St.
Business Office.....	Hitchins
Dining Hall.....	Chesapeake
Facilities/Maintenance.....	Stangle
Financial Aid.....	Pullen
Foundation.....	Lyric Building, Main St.
Graduate Services.....	Pullen

Human Resources.....	Hitchins
Health Center.....	Brady
Information.....	Public Safety Building
Planetarium.....	Tawes
President.....	Hitchins
Registrar.....	Pullen
Residence Life.....	Annapolis/Basement
Student & Educational Services.....	Hitchins
Student Union.....	Lane Center
University Police.....	Public Safety Building

Phone Numbers

Graduate Services.....	301.687.7053
Information.....	301.687.4000



To Exit 33, I-68

Frostburg State University Facts

Founded	1898
Location	Frostburg, a town of 7,500 people in the mountains of Western Maryland.
Travel	You can reach the University in a 2-1/2 hour drive west from Baltimore or Washington (each 150 miles) or in a 2-hour drive southeast from Pittsburgh (100 miles). Interstate 68 provides the most direct route. Use Exit 33 (Midlothian/Braddock Road) for quick access to the campus.
Mission	We are a regional, public comprehensive state university and a constituent of the University System of Maryland (13 member institutions).
Degrees Awarded	Bachelor of Arts Bachelor of Fine Arts Bachelor of Science Bachelor of Technical and Professional Studies Bachelor of Science in Urban and Regional Planning Master of Arts Master of Business Administration Master of Education Master of Science
Graduate Degree Programs	see listing on inside front cover
Academic Year	Fall and spring semesters plus optional summer session and Intersession (January session)
Average Enrollment	5,250 students 4,750 undergraduate 600 graduate
Undergraduate minority enrollment	28.3% (Fall 2009)
Faculty	242 full-time faculty; 118 part-time faculty (Fall 2009)
Faculty-Student Ratio	1:18 (undergraduate)
Campus:	260 acres, 37 major buildings, 11 residence halls, 10 classroom buildings, library with over half a million titles as well as computerized reference services and efficient library loan access to major Maryland libraries



Frostburg State University's annual security report includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings owned or controlled by FSU; and on public property within, or immediately adjacent to and accessible from the campus. The report also includes institutional policies concerning campus security, alcohol and drug use, crime prevention, the reporting of crimes, sexual assault and other matters. You may obtain a copy of this report by contacting the Office of Graduate Services.