

ENGLISH

English

Major

Minor

Concentrations in:

- LITERATURE
- CREATIVE WRITING
- PROFESSIONAL WRITING

Professors:

Dolly, Lutz, A. F. Parks, Pula,
R. F. Smith, Snelson

Associate Professors:

Barkley, R. Brewer, S. Duncan (Chair),
Ewers, Idris, Kehrwald, LaFemina

Assistant Professors:

Branam, A. Duncan

Lecturer:

Chapman

- If you wish to obtain secondary school certification, you must complete the Literature Concentration and additional courses and, after graduation, complete the Master of Arts in Teaching.
- The department also coordinates minors in film studies, journalism and public relations.
- A certificate in professional writing is offered.
- ENGL 101, 111, 150, 215, 221, 250, 308, 309, 310, and 312 do not count toward major or minor.

	MAJOR	MINOR
Hours Required in English:	40	24
Hours Required in Other Departments:	0	0
Total Hours Required:	40	24

Summary of Requirements for Major/Minor in English

Major

1. Core Curriculum (15 hours)

ENGL 260 British Literature: Beowulf to Present*
 ENGL 261 American Literature: Colonial to Present*
 ENGL 270 European and Neo-European Literature*
 or ENGL 271 Asian and African Literature*
 ENGL 300 Critical Writing about Literature* (Core Skill 2)
 ENGL 306 Introduction to English Linguistics* **
 or ENGL 416 History of the English Language* **

* Must have a C or better to count toward major.

** If you wish to obtain teaching certification, you must take both ENGL 306 and ENGL 416.

2. Concentrations (25 hours)

Majors must choose one of the following concentrations:

- Literature
- Creative Writing
- Professional Writing

Minor

1. Core Curriculum

(15 hours-Same as major)

2. Minor Core Requirement (3 hours)

ENGL 340 Shakespeare

3. Electives (6 hours)

Criteria for electives: Students must take 6 hrs. of literature at the 300/400 level.

Requirements for Literature Concentration

1. Major Core Curriculum: (15 hours - listed above)

2. Concentration Core Requirements: (7 hours)

ENGL 340 Shakespeare
 ENGL 471 Seminar in Critical Theory
 ENGL 489 English Capstone

3. Period Courses: (9 hours)

Take one of the following:

ENGL 371 Literature of the Middle Ages
 ENGL 372 Early Modern Literature
 ENGL 373 Literature of the Enlightenment

Take one of the following:

ENGL 374 Literature of the Age of Revolution
 ENGL 375 Romanticism
 ENGL 376 Realism and Naturalism

Take one of the following:

ENGL 377 Modernism
 ENGL 378 Postmodernism
 ENGL 379 Postcolonial Literature

4. Specialization Course: (3 hours)

Take one of the following:

ENGL 421 Jane Austen in Literature and Film
 ENGL 431 World Drama I
 ENGL 432 World Drama II
 ENGL 440 Literature of the Environment
 ENGL 450 Women and Literature
 ENGL 490 Selected Topics in English

5. Electives: (6 hours)

Students may count a maximum of 6 hours of writing courses beyond ENGL 300 Critical Writing About Literature. Students may count one 200-level course

Requirements for Creative Writing Concentration

1. Major Core Curriculum: (15 hours - listed above)

2. Concentration Requirements: (22 hours)

ENGL 334 Creative Writing: Fiction
 ENGL 335 Creative Writing: Poetry
 ENGL 377 Modernism
 or ENGL 378 Post Modernism
 ENGL 460 Form and Theory of Fiction and Poetry
 ENGL 470 Senior Workshop
 ENGL 489 English Capstone

Six hours from the following:

ENGL 360 Creative Nonfiction
 ENGL 434 Advanced Fiction Writing
 ENGL 435 Advanced Poetry Writing

3. Elective: (3 hours)

English course (300/400 level)

Requirements for Professional Writing Concentration

1. Major Core Curriculum (15 hours - listed above)

2. Concentration Requirements: (19 hours)

ENGL 330 Business Writing
 or ENGL 338 Technical Writing
 ENGL 336 Journalistic Writing
 ENGL 360 Creative Nonfiction
 ENGL 402 Editing and Production
 ENGL 430 The Composing Processes
 ENGL 436 Advanced News and Feature Writing
 ENGL 489 English Capstone

3. Electives: (6 hours)

Literature courses (300-400 level)

The Teaching Certification Option is not currently available. If you wish to pursue certification for teaching at the secondary level, you should complete the undergraduate English major and complete the Master of Arts in Teaching program after graduation. In the English major, you should choose the Literature Concentration. In addition, you must complete the following courses:

ENGL 276 Adolescent Literature
 ENGL 306 Introduction to English Linguistics
 ENGL 330 Business Writing
 or ENGL 336 Journalistic Writing
 ENGL 416 History of the English Language
 ENGL 430 The Composing Processes

If the courses listed above are not completed on the undergraduate level, candidates for the Master of Arts in Teaching program may be required to take additional coursework to meet content standards.

PROFESSIONAL WRITING & ENVIRONMENTAL ANALYSIS & PLANNING

Professional Writing

Certificate

Coordinator:

Charles Ewers, Associate Professor,
Department of English

- To be eligible for a certificate, you must achieve at least a C in each writing course applied to certification.
- If you are majoring in English with a concentration in professional writing, you are not eligible for the certificate.
- You cannot major in Professional Writing

CERTIFICATE

Hours Required in English:	12
Hours Required in Other Departments:	0
Total Hours Required:	12

The certificate in professional writing is open to degree-seeking students in any major and non-degree seeking members of the community who would like to strengthen writing skills.

Non-degree-seeking students must provide evidence of successful completion of no fewer than 42 college-level credits, including a freshman English course, passed with a grade of C or better.

Summary of Requirements for Certificate in Professional Writing

Select 12 hours from the following courses:

ENGL 330	Business Writing
ENGL 336	Journalistic Writing
ENGL 338	Technical Writing
ENGL 339	Scientific Writing
ENGL 402	Editing and Production
ENGL 436	Advanced News and Feature Writing
ENGL 430	The Composing Processes

Environmental Analysis & Planning

Major

Contact:

Fritz Kessler, Chair,
Department of Geography

Participating Faculty:

Professors:

Caupp, Precht (Geography),
Raesley (Biology)

Associate Professors:

Kessler (Geography),
Pegg (Biology)

Assistant Professors:

Allen, M. Ramspott
(Geography)

- This multidisciplinary program is jointly administered by the Departments of Biology and Geography.
- You may not minor in Environmental Analysis and Planning.
- The program is supported by the Maryland Department of the Environment.
- Internship is optional.
- You are advised to complete the 100- and 200-level courses within your first 60 hours of course work, and before enrolling in 400-level courses in Geography and Biology.

MAJOR

Hours Required in Geography:	46-47
Hours Required in Biology:	21-23
Hours Required in Other Departments:	17-18
Total Hours Required:	84-88

Summary of Requirements for Major in Environmental Analysis and Planning

Major

1. Courses in Biology: (21-23 hours)

BIOL 149	General Biology I (GEP Group C)
BIOL 150	General Biology II
BIOL 314	Plant Taxonomy
BIOL 340	General Ecology

Take 2 of 4 courses:*

BIOL 303	Plant Physiology
BIOL 304	Microbiology
BIOL 421	Sample Design and Analysis of Plant Communities
BIOL 430	Limnology

*GEOG 445, Biogeography, may be substituted for one of the BIOL electives.

2. Courses in Geography: (46-47 hours)

GEOG 103/113	Physical Geography (GEP Group C)
GEOG 207	Physical Geology and Geomorphology
GEOG 275	Fundamentals of Geographic Data Handling (Tech. Fluency)
GEOG 310	Fundamentals of Cartography
GEOG 340	Soil: Genesis, Nature and Characterization
GEOG 413	Remote Sensing - Image Interpretation
GEOG 430	Surface Water Hydrology
GEOG 470	Soil & Water Engineering
GEOG 472	Environmental Planning (Capstone)
GEOG 473	Environmental Law

Take four of eleven courses:

GEOG 208	Earth System History
GEOG 317	Principles of Geographic Information Science
GEOG 414	Digital Image Processing and Analysis
GEOG 417	Geospatial Analysis
GEOG 431	Quaternary Environments
GEOG 432	Groundwater Hydrology
GEOG 433	Surveying and Field Techniques
GEOG 441	Soil Analysis
GEOG 471	Engineering for Land Development
GEOG 475	Glacial/Periglacial Geomorphology
GEOG 476	Fluvial/Coastal Geomorphology

3. Required Courses in Other Departments:

(17-18 hours)

CHEM 201	General Chemistry I (GEP Group C)
CHEM 202	General Chemistry II
ENGL 338	Technical Writing (Core Skill 2)
MATH 209	Elements of Applied Probability and Statistics (Core Skill 3)
MATH 220	Calculus for Applications
	or MATH 236 Calculus I (Core Skill 3)

Ethnobotany

Major

	MAJOR	MINOR
Total Hours Required:	71	20-21

Minor

See related programs:

- BIOLOGY
- CULTURAL ANTHROPOLOGY
- ENVIRONMENTAL ANALYSIS & PLANNING
- FORESTRY
- GEOGRAPHY
- INTERPRETIVE BIOLOGY & NATURAL HISTORY
- SUSTAINABILITY STUDIES
- WILDLIFE & FISHERIES

Coordinator:

Sunshine L. Brosi, Assistant Professor,
Department of Biology

Participating Faculty:

Professors:

Precht

Associate Professors:

Biser, (Chemistry), R.S. Fritz,
Li (Biology)

Assistant Professors:

Brosi, Fiscus, Puthoff (Biology),
Rogers Thomas (Sociology)

- Ethnobotany is an interdisciplinary major.
- You are encouraged to minor in related fields, including cultural anthropology, chemistry, geography, sociology, foreign language, biology and sustainability studies.
- A degree in Ethnobotany will prepare you for work in government and non-governmental organizations focused on resource management, conservation, and related areas where human communities and natural environments interact.
- You are encouraged to participate in summer internships with local and regional organizations.
- Students interested in professional and graduate degrees may need to take additional courses.
- You have the option to participate in research on medicinal plants of the Appalachian region through the Appalachian Center for Ethnobotanical Studies (ACES) a cooperative program with Frostburg State University, West Virginia University and the University of Maryland Biotechnology Institute.

Summary of Requirements for Major in Ethnobotany

Major

1. Scientific Foundations (22 hours)

BIOL 149 General Biology I (GEP Group C)
BIOL 150 General Biology II
CHEM 201 General Chemistry I (GEP Group C)
GEOG 103 Physical Geography (GEP Group C)
MATH 209/219 Elements of Applied Probability and Statistics (Core Skill 3)
MATH 102 College Algebra (Core Skill 3)
or MATH 120 Pre-Calculus (Core Skill 3)
or any math course above 210

2. Ethnobotany Core (13 hours)

BIOL 128 Introduction to Ethnobotany
BIOL 328 Economic Botany
BIOL 428 Ethnographic Field Techniques (capstone)
BIOL 460 Field Experiences in Forestry

3. Botany and Plant Ecology (24 hours)

GEOG 445 Biogeography
BIOL 303 Plant Physiology
BIOL 305 Dendrology
BIOL 312 Morphology of Plants
BIOL 314 Plant Taxonomy
BIOL 340 General Ecology
BIOL 425 Forest Ecology and Conservation

4. Cultural Perspectives (12 hours)

GEOG 104 Human Geography (GEP Group D or F)
or GEOG 110 World Regional Geography (GEP Group D or F)
SOC 224 Cultural Anthropology (GEP Group F)
SOC 350 Folklore in Appalachia

Minor

1. Scientific Foundations (4 hours)

BIOL 149 General Biology I (GEP Group C)

2. Ethnobotany Core (7 hours)

BIOL 128 Introduction to Ethnobotany

Select one additional course from:

BIOL 328 Economic Botany
BIOL 428 Ethnographic Field Techniques
BIOL 460 Field Experiences in Forestry

3. Botany and Plant Ecology (3 hours)

GEOG 445 Biogeography

4. Cultural Perspectives (3 hours)

SOCI 224 Cultural Anthropology (GEP Group F)

5. Electives (3-4 hours)

Select one additional course from:

BIOL 303 Plant Physiology
BIOL 305 Dendrology
BIOL 312 Morphology of Plants
BIOL 314 Plant Taxonomy
BIOL 340 General Ecology
BIOL 425 Forest Ecology and Conservation
GEOG 104 Human Geography (GEP Group D or F)
or GEOG 110 World Regional Geography (GEP Group F)
SOC 350 Folklore in Appalachia

FILM STUDIES & FINE ARTS

Film Studies

Minor

Total Hours Required:	MINOR 18
------------------------------	---------------------------

Coordinator:

Dr. Kevin Kehrwald,
Associate Professor, Department of
English

Participating Faculty:

Professors:

A.F. Parks, R.F. Smith (English)

Associate Professor:

Kehrwald (English)

Assistant Professor:

McAlexander (Mass Communication)

- The minor is open to students majoring in any field.
- You cannot major in film studies.

The goal of the film minor is to help you develop visual literacy. You will acquire the essential skills of critical thinking by learning to “read texts” in the most pervasive medium of contemporary culture—film. You will

1. Become a more critical viewer of film as a medium by learning to read, analyze, and interpret films
2. Recognize how cinematic techniques, such as camera movement, editing, and cinematography contribute to a film’s impressions
3. Become familiar with film language and terminology
4. Recognize film as a global medium of diverse cultural styles and voices
5. Become acquainted with a variety of aesthetic and cinematic movements
6. Recognize film as a vehicle for forming cultural values
7. Understand how cultural events and technologies have shaped (and continue to shape) film styles, genres, and narrative techniques
8. Understand the historical development of film as an art form.

Summary of Requirements for Minor in Film Studies

Minor

1. Required Core Courses: (9 hours)

- ENGL 207* Introduction to Film Studies (Fall)
ENGL 208* Film and American Culture
(Spring, even-numbered years)
ENGL 344* Film Theory (Spring, odd-numbered years)

*Must have C or better to count toward minor.

2. Elective Courses: (9 hours)

- ENGL 281 Literature into Film (Fall, even-numbered years)
ENGL 282 Shakespeare on Film (Fall, odd-numbered years)
ENGL 421 Jane Austen in Literature and Film (variable)
MCOM 287 Intro to Video Production (every semester)
MCOM 387 Multi-Camera Studio Production (Fall)
MDFL 407 Latin American and Spanish Film (variable)
MDFL 417 World Film (variable)

Relevant Special Topics courses (such as HIST 490) will be welcomed as electives as approved by the Coordinator.

Fine Arts

Minor

Hours Required in Art:	MINOR 24
Hours Required in Other Departments:	0
Total Hours Required:	24

Professors:

Brown (chair), Davis, Dieruf, Rhodes

Associate Professor:

Hodges

Assistant Professors:

Hein, Herzfeld

- Minors are also offered in art history and graphic design. A major is offered in Art & Design. See separate listings in this catalog.
- Only courses in which a grade of C or better is earned may count towards satisfaction of major and minor requirements.
- You cannot major in Fine Arts.

Summary of Requirements for Minor in Fine Arts

Minor

1. Basic Courses: (6 hours)

- ART 104 Two-Dimensional Design
ART 105 Three-Dimensional Design

2. Art History and Critical Studies: (6 hours)

- ART 415 Art Criticism
and choose 3 hours from:
ART 301 Artistic Traditions: Asia (GEP Group F)
or ART 302 Artistic Traditions: Africa and the Americas
(GEP Group F)
ART 360 Western Art History
ART 380 19th Century Art History
ART 408 20th Century Art History
ART 460 Renaissance and Baroque Art History

3. Introductory Studio: (9 hours)

- Choose 6 hours from:
ART 207 Graphic Design (Tech. Fluency)
ART 212 Drawing

- ART 221 Painting
ART 232 Printmaking
ART 235 Photography

and choose 3 hours from:

- ART 202 Ceramics
ART 209 Crafts Workshop
ART 236 Digital Imaging
ART 240 Sculpture

4. Advanced Studio Art:

- choose 3 hours from:
ART 307 Computer Graphics
ART 402 Advanced Ceramics
ART 407 Advanced Graphic Design: Print
ART 421 Advanced Painting
ART 432 Advanced Printmaking
ART 435 Advanced Photography
ART 440 Advanced Sculpture

Foreign Languages & Literature

Major

Concentrations in

- FRENCH
- SPANISH

Minor

Teaching Certification Option

	MAJOR	MINOR	TEACHING CERTIFICATION OPTION
Hours Required in Foreign Languages & Literature:	36-42	18	36-42
Hours Required in Other Departments:	variable	0	variable
Total Hours Required:	36-variable	18	78.5-variable

Students are strongly encouraged to keep work from all their courses in anticipation of the senior seminar.

Summary of Requirements for Major/Minor in Foreign Languages & Literature with a Concentration in French

Major

1. Core Curriculum (15 hours)

- FREN 211 French Grammar, Composition & Conversation I *
- FREN 212 French Grammar, Composition & Conversation II
- FREN 250 Overview of French Language & Culture (GEP Group B)
- FREN 330 Advanced Conversation
- FREN 331 Advanced Composition

2. Tracks (21 hours)

Choose one of the following tracks:

A. Literary Studies

Students seeking teaching certification in French must follow this track.

- LING 301 Introduction to Language
 - FREN 335 Intro. to Study of French Literature
 - FREN 410 French Poetry and Drama
 - FREN 411 French Fiction, Non-Fiction and Film
 - FREN 493 Senior Seminar in French Literature (Capstone)
- Six additional 300 or 400-level hours in French

B. French Professional Studies

- FREN 332 French for the Professions
- FREN 430 Individual and Society in Francophone World
- FREN 431 Translation
- FREN 496 Senior Seminar in French Professional Studies (Capstone)

Nine additional 300 or 400-level hours in French or alternative discipline approved by department. Students must file a course plan articulating which classes will be used to satisfy these nine credits with the chair of the department.

Minor

1. Core Curriculum (9 hours)

- FREN 211 French Grammar, Composition & Conversation I *
- FREN 212 French Grammar, Composition & Conversation II
- FREN 250 Overview of French Language & Culture (GEP Group B)

2. Minor electives (9 hours)

Any three 300- or 400-level courses in French

Associate Professor:

Almquist, Houser, Sanchez (Chair)

- At least half of the credit hours required in your major language (French or Spanish) must be taken at FSU.
- Foreign language majors who have courses transferred from a foreign institution at the 300 or 400 level must take at least one 300 or 400 level course at FSU after they return and prior to graduation.
- Only courses in which a grade of C or better is earned will count towards satisfaction of major or minor requirements.
- The department also offers course work in intercultural studies, literature in translation, and linguistics.
- Courses in Italian, Chinese and Japanese are offered as MDFL courses on an irregular basis.

* If you have no (or limited) previous background in French, you will have to begin your language study at the elementary level (FREN 101-102) with accelerated placement possible based on your performance.

FOREIGN LANGUAGES & LITERATURE

Summary of Requirements for Major/Minor in Foreign Languages & Literature with a Concentration in Spanish

Major	Minor
<p>1. Core Curriculum (9 hours) SPAN 211 Spanish Grammar, Composition & Conversation I* SPAN 212 Spanish Grammar, Composition & Conversation II SPAN 250 Overview of Spanish Language & Culture (GEP Group B)</p> <p>2. Advanced Courses (30 hours) <i>Nine upper-level Spanish courses, four of which must be at the 400 level</i> SPAN 489 Capstone in Spanish</p> <p>3. Linguistics (3 hours) LING 301 Introduction to Language</p> <p>4. One of the following:</p> <ol style="list-style-type: none"> Completion of a second major French through FREN 250 Completion of an International Studies Area Certificate Five MDFL courses in diverse foreign languages (Chinese, Japanese, Italian and/or Arabic) 	<p>1. Core Curriculum (9 hours) SPAN 211 Spanish Grammar, Composition & Conversation I* SPAN 212 Spanish Grammar, Composition & Conversation II SPAN 250 Overview of Spanish Language & Culture (GEP Group B)</p> <p>2. Advanced Courses (9 hours) <i>Any three 300 or 400-level courses in Spanish</i></p>

** If you have no (or limited) previous background in Spanish, you will have to begin your language study at the elementary level (SPAN 101-102) with accelerated placement possible based on your performance.*

Accelerated Placement

All students interested in taking a foreign language Course (French and/or Spanish) are required to take an online placement exam. If the results of the placement exam determine that the student is eligible for accelerated placement, and the student completes a course above the 101-level with a grade of C or better, the student may apply to the department for academic credit for the courses waived, as summarized below.

- at the 102 level, you will be eligible to receive 3 additional credits.
- at the 211 level, you will be eligible to receive 6 additional credits.
- at the 212 level, you will be eligible to receive 9 additional credits.
- at the 250 level, you will be eligible to receive 12 additional credits.
- at the 300 level, you will be eligible to receive 15 additional credits.

There is a \$10.00 fee for each hour of credit received through accelerated placement.

Summary of Requirements for Teaching Certification Option in Foreign Languages & Literature

If you wish to complete a Maryland State approved program in teaching French or Spanish, you must:

- Complete the BA in Foreign Languages & Literature (French Literary Studies track only or Spanish).
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: Secondary School Programs.

Forestry

Minor

MINOR

Total Hours Required:

23

See related programs:

- BIOLOGY
 - PRE-HEALTH OPTION
 - BIOTECHNOLOGY
 - ENVIRONMENTAL SCIENCE
- ENVIRONMENTAL ANALYSIS & PLANNING
- ETHNOBOTANY
- INTERPRETIVE BIOLOGY & NATURAL HISTORY
- WILDLIFE & FISHERIES

Coordinator:

Daniel Fiscus, Assistant Professor,
Department of Biology

- You cannot major in forestry.

Summary of Requirements for Minor in Forestry

Minor

1. Required Courses: (17 hours)

BIOL 149	General Biology I (GEP Group C)
BIOL 150	General Biology II
BIOL 305	Dendrology
BIOL 425	Forest Ecology and Conservation
BIOL 460	Forestry Field Practice

2. Electives: (6 hours)

At least 6 credits selected from two of the following groups:
(Some of the following courses may have prerequisites.)

Geography

GEOG 317	Principles of Geographic Information Systems
GEOG 340	Soils: Genesis, Nature and Characterization
GEOG 406	Management and Conservation of Natural Resources
GEOG 413	Remote Sensing - Image Interpretation
GEOG 430	Surface Water Hydrology
GEOG 433	Surveying
GEOG 445	Biogeography

Biology

BIOL 230	Wildlife Techniques
BIOL 410	Plant Diseases
BIOL 421	Sample Design and Plant Community Analysis
BIOL 494	Field Experiences in Biology*
BIOL 499	Special Problems in Biology *

Other electives

RECR 342	Park and Facility Design
RECR 440	Organization & Administration of Recreation & Parks
POSC 450	Environmental Public Policy
POSC 498	Readings in Political Science*
ECON 410	Resource & Energy Economics

*Independent studies courses **MUST** address a **Forestry** topic.

GEOGRAPHY

Geography

Major

Minor

	MAJOR	MINOR	MAPPING SCIENCES CONC.	GLOBAL SYSTEMS ANALYSIS CONC.	CLIMATE SYSTEM SCIENCE CONC.
Hours Required in Geography:	40-43	22	41-42	37-38	50
Hours Required in Other Departments:	3	0	12-13	9	6
Total Hours Required:	43-46	22	53-55	46-47	56

Concentrations in:

- CLIMATE SYSTEM SCIENCE
- GLOBAL SYSTEMS ANALYSIS
- MAPPING SCIENCE

See related programs:

- EARTH SCIENCE
- ENVIRONMENTAL ANALYSIS AND PLANNING
- ETHNOBOTANY
- URBAN AND REGIONAL PLANNING

Professors:

Bullamore, Caupp, Precht, Saku

Associate Professor:

Kessler (chair)

Assistant Professors:

Allen, M. Ramspott, Russo

Lecturers:

T. Edwards, A. Lewis

- You may elect to complete the major without specialized concentration or choose a concentration in climate system science, global systems analysis or mapping science.
- An internship is optional.

Summary of Requirements for Major/Minor in Geography

(without specialized concentration)

Major

1. Required Core Courses: (19 hours)

- GEOG 103 Physical Geography (GEP Group C)
 GEOG 104 Human Geography (GEP Group D or F)
 or GEOG 110 World Regional Geography: Cultural Diversity (GEP Group D or F)
 GEOG 275 Fundamentals of Geographic Data Handling (Tech. Fluency)
 GEOG 310 Fundamentals of Cartography
 GEOG 380 Research Methods in Geography
 GEOG 480 The Geographic Perspective
 GEOG 481 Geography Capstone

2. Advanced Physical Geography: (3-4 hours)

- GEOG 335 Oceanography
 GEOG 340 Soils: Genesis, Nature and Characterization
 GEOG 405 Global Climate System
 GEOG 430 Surface Water Hydrology
 GEOG 431 Quaternary Environments
 GEOG 445 Biogeography

3. Advanced Human Geography: (3 hours)

- GEOG 300 Economic Geography
 GEOG 324 Urban Geography: Internal City Patterns
 GEOG 325 Urban Geography: Metropolitan Systems
 GEOG 407 Political Geography
 GEOG 410 Locational Analysis
 GEOG 423 Geography of the Suburbs
 GEOG 425 Geography of Transportation
 GEOG 427 Geography of Languages & Religions (GEP Group F)
 GEOG 454 Geography of Tourism

4. Advanced Regional Geography: (3 hours)

Select from:

- GEOG 301 Geography of North America
 GEOG 302 Geography of Maryland
 GEOG 320 Geography of Latin America
 GEOG 400 Geography of Asia
 GEOG 401 Geography of Europe
 GEOG 402 Geography of Northern Eurasia
 GEOG 403 Geography of Sub-Saharan Africa
 GEOG 404 Geography of the Middle East and Central Asia

5. Geographic Techniques: (3 hours)

Select from:

- GEOG 317 Principles of Geographic Information Systems
 GEOG 412 Geographic Visualization
 GEOG 413 Remote Sensing - Image Interpretation
 GEOG 415 Applied Design in the Mapping Sciences
 GEOG 433 Surveying and Field Techniques

6. Human-Earth Relationships: (3 hours)

Select from:

- GEOG 360 Food Systems
 GEOG 406 Mgmt. & Conservation of Natural Resources

Minor

1. Required Core Courses: (7 hours)

- GEOG 103 Physical Geography (GEP Group C)
 GEOG 104 Human Geography (GEP Group D or F)
 or GEOG 110 World Regional Geography: Cultural Diversity (GEP Group D or F)

2. Electives (15 hours)

Select any from GEOG courses at or above the 200-level or equivalent except GEOG 495

Major *continued*

GEOG 450 Urban Planning
 GEOG 460 Natural Hazards in the Physical Environment
 GEOG 472 Environmental Planning
 GEOG 473 Environmental Law

7. Electives (6-8 hours)

Any two additional geography courses at or above the 300-level or equivalent except GEOG 495

8. Required Courses in Other Departments:

(3 hours)

MATH 209 Elements of Applied Probability & Statistics
 (Core Skill 3)

**Three or more credits earned in GEOG 499 Research in Geography, may count as one course.*

Minor *continued***Requirements for Climate System Science Concentration****1. Required Core Courses:** (19 hours)

GEOG 103 Physical Geography (GEP Group C)
 GEOG 104 Human Geography (GEP Group D or F)
 or GEOG 110 World Regional Geography: Cultural Diversity
 (GEP Group D or F)
 GEOG 275 Fundamentals of Geographic Data Handling
 (Tech. Fluency)
 GEOG 310 Fundamentals of Mapping Sciences
 GEOG 380 Research Methods in Geography
 GEOG 480 The Geographic Perspective
 GEOG 481 Geography Capstone

2. Required Climate System Science Courses:

(22 hours)

GEOG 205 or PHSC 205 Descriptive Meteorology
 GEOG 335 Oceanography
 GEOG 405 Global Climate System
 GEOG 429 Synoptic Climatology
 GEOG 469 Dynamic Climatology
 GEOG 430 Surface Water Hydrology
 GEOG 460 Natural Hazards in the Physical Environment

3. Physical Systems Elective: (3 hours)

Select one from:

GEOG 340 Soil: Genesis, Nature & Characterization
 GEOG 431 Quaternary Environments
 GEOG 432 Groundwater Hydrology
 GEOG 445 Biogeography

4. Human Systems Elective: (3 hours)

Select one from:

GEOG 324 Urban Geography: Internal City Patterns
 GEOG 325 Urban Geography: Metropolitan Systems
 GEOG 360 Food Systems
 GEOG 406 Conservation & Management of Natural Resources
 GEOG 410 Locational Analysis
 GEOG 423 Geography of the Suburbs
 GEOG 425 Geography of Transportation

5. Geographic Techniques Course: (3 hours)

Select one from:

GEOG 317 Principles of Geographic Information Science
 GEOG 413 Remote Sensing - Image Interpretation
 GEOG 415 Applied Design in the Mapping Sciences
 GEOG 417 Geospatial Analysis

6. Required Courses in Other Departments (6 hours)

MATH 209/219 Elements of Applied Probability and Statistics
 (Core Skill 3)

MATH 220 Calculus for Applications
 or MATH 236 Calculus I (Core Skill 3)

GEOGRAPHY

Requirements for Global Systems Analysis Concentration**1. Required Core Courses: (19 hours)**

- GEOG 103 Physical Geography (GEP Group C)
 GEOG 104 Human Geography (GEP Group D or F)
 or GEOG 110 World Regional Geography: Cultural Diversity (GEP Group F)
 GEOG 275 Fundamentals of Geographic Data Handling (Tech. Fluency)
 GEOG 310 Fundamentals of Cartography
 GEOG 380 Research Methods in Geography
 GEOG 480 The Geographic Perspective
 GEOG 481 Geography Capstone

2. Specialized Advanced Courses: (15 hours)**Group I Human Geography: (9 hours)**

- GEOG 300 Economic Geography
 GEOG 407 Political Geography
Select one from:
 GEOG 325 Urban Geography: Metropolitan Systems
 GEOG 410 Locational Analysis
 GEOG 423 Geography of the Suburbs
 GEOG 425 Geography of Transportation
 GEOG 427 Geography of Languages and Religions (GEP Group F)
 GEOG 454 Geography of Tourism

Group II Regional Geography: (6 hours)

- Select two from:*
 GEOG 320 Geography of Latin America
 GEOG 400 Geography of Asia
 GEOG 401 Geography of Europe
 GEOG 402 Geography of Northern Eurasia
 GEOG 403 Geography of Sub-Saharan Africa
 GEOG 404 Geography of the Middle East and Central Asia

3. Complementary Advanced Courses:*(3-4 hours)**Select one course from one of the three groups:***Group I Physical Geography: (0-4 hours)**

- GEOG 335 Oceanography
 GEOG 340 Soils: Genesis, Nature and Characterization
 GEOG 405 Global Climate System
 GEOG 430 Surface Water Hydrology
 GEOG 431 Quaternary Environments
 GEOG 445 Biogeography

Group II Geographic Techniques: (0-3 hours)

- GEOG 317 Principles of Geographic Information Science (GIS)
 GEOG 412 Geographic Visualization
 GEOG 413 Remote Sensing - Image Interpretation
 GEOG 415 Applied Design in the Mapping Sciences
 GEOG 433 Surveying and Field Techniques

Group III Human-Earth Relationships: (0-3 hours)

- GEOG 360 Food Systems
 GEOG 406 Management and Conservation of Natural Resources
 GEOG 450 Urban Planning
 GEOG 460 Natural Hazards in the Physical Environment
 GEOG 472 Environmental Planning
 GEOG 473 Environmental Law

4. Required Courses in Other Departments:*
(9 hours)

- MATH 209 Elements of Applied Probability and Statistics (Core Skill 3)

and select two from:

- ECON 309 Comparative Economic Systems
 ECON 400 International Trade
 ECON 401 International Finance
 ECON 405 Econ. Growth & Develop.: Developing Economies
 HIST 304 History of Latin America
 HIST 341 Modern & Contemporary Middle East
 HIST 353 Contemporary Africa
 HIST 376 Modern Europe
 HIST 404 Revolutionary and Soviet Russia
 HIST 409 World Environmental History
 HIST 437 History of Korea
 HIST 450 History of Mexico
 HIST 455 Latin American Revolutions
 HIST 457 India
 HIST 458 History of China
 HIST 459 History of Japan
 PHIL 311 Asian and African Philosophy (GEP Group F)
 PHIL 315 Philosophy and the Environment
 POSC 330 Politics of Africa
 POSC 331 Politics of Latin America
 POSC 332 Politics of the Middle East
 POSC 333 Politics of Europe
 POSC 341 International Organization
 POSC 431 Russian Politics
 POSC 435 Model Organization of American States
 POSC 441 International Relations: Theory and Practice

*Foreign language courses at the 200 level or higher may fulfill this requirement.*** some courses may have prerequisites*

Requirements for Mapping Sciences Concentration

1. Required Core Courses: (19 hours)

- GEOG 103 Physical Geography (GEP Group C)
 GEOG 104 Human Geography (GEP Group D or F)
 or GEOG 110 World Regional Geography: Cultural Diversity
 (GEP Group D or F)
 GEOG 275 Fundamentals of Geographic Data Handling
 (Tech. Fluency)
 GEOG 310 Fundamentals of Cartography
 GEOG 380 Research Methods in Geography
 GEOG 480 The Geographic Perspective
 GEOG 481 Geography Capstone

2. Specialized Advanced Courses:

Geographic Techniques: (13 hours)

- GEOG 317 Principles of Geographic Information Science (GIS)
 GEOG 413 Remote Sensing - Image Interpretation
 GEOG 499 Research in Geography

Select two courses from among:

- GEOG 412 Geographic Visualization
 GEOG 414 Digital Image Processing and Analysis
 GEOG 415 Applied Design in the Mapping Sciences
 GEOG 417 GeoSpatial Analysis
 GEOG 418 Cartometrics
 GEOG 433 Surveying and Field Techniques

3. Complementary Advanced Courses:

(9-10 hours)

Select one course from three of the four groups:

Group I Physical Geography: (0-4 hours)

- GEOG 335 Oceanography
 GEOG 340 Soils: Genesis, Nature and Characterization
 GEOG 405 Global Climate System
 GEOG 423 Geography of the Suburbs
 GEOG 430 Surface Water Hydrology
 GEOG 431 Quaternary Environments
 GEOG 445 Biogeography

Group II Human Geography: (0-3 hours)

- GEOG 300 Economic Geography
 GEOG 324 Urban Geography: Internal City Patterns
 GEOG 325 Urban Geography: Metropolitan Systems
 GEOG 407 Political Geography
 GEOG 410 Locational Analysis
 GEOG 423 Geography of the Suburbs
 GEOG 425 Geography of Transportation
 GEOG 427 Geography of Languages and Religions (GEP Group F)
 GEOG 454 Geography of Tourism

Group III Regional Geography: (0-3 hours)

- GEOG 301 Geography of North America
 GEOG 301 Geography of Maryland
 GEOG 320 Geography of Latin America
 GEOG 400 Geography of Asia
 GEOG 401 Geography of Europe
 GEOG 402 Geography of Northern Eurasia
 GEOG 403 Geography of Sub-Saharan Africa
 GEOG 404 Geography of the Middle East and Central Asia

Group IV Human-Earth Relationships:

(0-3 hours)

- GEOG 360 Food Systems
 GEOG 406 Management and Conservation of Natural
 Resources
 GEOG 450 Urban Planning
 GEOG 460 Natural Hazards in the Physical Environment
 GEOG 472 Environmental Planning
 GEOG 473 Environmental Law

4. Required Courses in Other Departments*:

(12-13 hours)

- MATH 209 Elements of Applied Probability & Statistics
 (Core Skill 3)

Select one course:

- MATH 102 College Algebra (Core Skill 3)
 MATH 103 Trigonometry
 MATH 220 Calculus for Applications I
 MATH 221 Calculus for Applications II
 MATH 236 Calculus I (Core Skill 3)
 MATH 237 Calculus II

Select two courses:

- ART 104 Two-Dimensional Design
 ART 207 Graphic Design
 ART 212 Drawing
 COSC 130 Introduction to Programming
 COSC 240 Computer Science I (4 cr.)
 PSYC 306 Sensation and Perception
 PSYC 409 Human Learning and Cognition

*some of these courses may have prerequisites

5. Recommendations:

Students are encouraged to select additional course work:

- MATH 220 & 221 Calculus I and II - especially for remote sensing

GRAPHIC DESIGN

Graphic Design

Minor

	MINOR
Hours Required in Art:	24
Hours Required in Other Departments:	0
Total Hours Required:	24

Professors:

Brown (chair), Davis, Dieruf,
Rhodes

Associate Professor:

Hodges

Assistant Professors:

Hein, Herzfeld

- Minors are also offered in fine arts and art history. A major is offered in Art & Design. See separate listings in this catalog.
- Only courses in which a grade of C or better is earned may count towards satisfaction of major and minor requirements.
- You cannot major in Graphic Design.

Summary of Requirements for Minor in Graphic Design

Minor

1. Basic Courses: (9 hours)

ART 104 Two-Dimensional Design
ART 105 Three-Dimensional Design
ART 207 Graphic Design (*Tech. Fluency*)

2. Art History and Critical Studies: (6 hours)

ART 415 Art Criticism

and choose 3 hours from:

ART 360 Western Art History
ART 408 20th Century Art History

3. Introductory Studio: (3 hours)

Choose from:

ART 202 Ceramics
ART 221 Painting
ART 232 Printmaking
ART 235 Photography
ART 240 Sculpture

4. Advanced Studio Focus: (6 hours)

ART 307 Computer Graphics
ART 407 Advanced Graphic Design: Print

History

Major

Minor

	MAJOR	MINOR
Hours Required in History:	39	24
Hours Required in Other Departments:	6	0
Total Hours Required:	45	24

Concentrations in:

- INTERNATIONAL HISTORY
- HISTORY OF THE AMERICAS

Professors:
Boniece, Clulee

Associate Professors:
Abbay, Charney (Chair)

Assistant Professor:
G. Wood

Instructor:
Rands

- Only courses in which a grade of C or better is earned will count towards satisfaction of major requirements.
- An internship is optional.

Summary of Requirements for Major/Minor in History

Major	Minor
<p>1. Core Introductory Level Courses: (6 hours) <i>Select from:</i> HIST 103 History of the United States HIST 104 History of the United States HIST 113 World History HIST 114 World History</p> <p><i>(The Master of Arts in Teaching (MAT) program requires completion of one of the following sequences: HIST 103 and HIST 104 or HIST 113 and HIST 114)</i></p> <p>2. Research Core: (6 hours) HIST 299 Writing and Research in History <i>Completion of HIST 299 with a C or better is required for admission to the history major. Students may file a declaration of major BEFORE completing HIST 299.</i> HIST 485 Seminar in History <i>Must be completed during the senior year with a grade of C or better. Fulfills Capstone Experience in the major requirement.</i></p> <p>3. Concentrations: (27 hours) <i>Majors must choose one of the following concentrations:</i> International History History of the Americas</p> <p>4. Electives (6 hours) <i>Any two 300/400 level history courses</i></p>	<p>1. Core Introductory Level Courses: (12 hours) HIST 103 History of the United States HIST 104 History of the United States HIST 113 World History HIST 114 World History</p> <p>4. Electives (12 hours) <i>Select from any courses at the 300 or 400 level.</i></p>

Requirements for International History Concentration

1. Select five courses from the following:

HIST 301	Traditional Africa
HIST 303	History of Latin America
HIST 304	History of Latin America
HIST 306	Medieval Europe
HIST 307	Renaissance and Reformation Europe
HIST 308	Europe, 1600-1815
HIST 310	Ancient Greece and Rome
HIST 341	Modern and Contemporary Middle East
HIST 353	Contemporary Africa
HIST 360	Modern and Contemporary Asia
HIST 376	Modern Europe
HIST 403	Imperial Russia
HIST 404	Revolutionary and Soviet Russia
HIST 409	World Environmental History
HIST 418	Native Peoples of the Americas (GEP Group F)
HIST 419	A History of Terrorism
HIST 433	Public History
HIST 436	Women's Issues in World History (GEP Group F)
HIST 437	History of Korea
HIST 450	History of Mexico
HIST 455	Latin American Revolutions
HIST 457	India
HIST 458	History of China
HIST 459	History of Japan
HIST 475	Genocide and Mass Violence
HIST 481	Experiential History/International
HIST 489	Special Topics in International History

2. Select two history courses from the History of the Americas concentration.

3. Select two complementary courses from the following areas (some of these courses may require additional pre-requisite course work):

ART 301	Artistic Traditions: Asia (GEP Group F)
ART 302	Artistic Traditions: Africa & the Americas (GEP Group F)
ART 360	Western Art History
ECON 309	Comparative Economic Systems
ECON 405	Economic Growth and Development
ENGL 270	European and Non-European Literature
ENGL 271	Asian and African Literature
ENGL 332	The Age of Johnson
ENGL 340	Shakespeare
ENGL 371	The Middle Ages in Literature
ENGL 372	Early Modern Literature
ENGL 373	Literature of the Enlightenment
ENGL 374	Age of Revolution
ENGL 375	Romanticism
ENGL 376	Realism and Naturalism
ENGL 377	Modernism
ENGL 378	Postmodernism
ENGL 379	Postcolonial Literature
GEOG 320	Geography of Latin America
GEOG 401	Geography of Europe
GEOG 402	Geography of Northern Eurasia
GEOG 403	Geography of Sub-Sahara Africa
POSC 330	Politics of Africa
POSC 331	Politics of Latin America
POSC 332	Politics of the Middle East
POSC 333	Politics of Europe
POSC 431	Russian Politics
FREN 250 or above	(250 – GEP Group B)
SPAN 250 or above	(250 – GEP Group B)

Requirements for History of the Americas Concentration

1. Select five courses from the following:

HIST 303	History of Latin America
HIST 304	History of Latin America
HIST 409	World Environmental History
HIST 418	Native Peoples of the Americas (GEP Group F)
HIST 420	Green: Environment and Economy in U.S. History
HIST 433	Public History
HIST 436	Women's Issues in World History (GEP Group F)
HIST 445	History of Maryland
HIST 450	History of Mexico
HIST 455	Latin American Revolutions
HIST 461	Colonial America, 1607-1763
HIST 462	Revolutionary America, 1763-89
HIST 463	The Age of Jefferson and Jackson, 1789-1848
HIST 464	The Civil War and Reconstruction, 1849-77
HIST 465	Gilded Age America, 1877-1913
HIST 466	The U.S. in the 20th Century, 1914-45
HIST 467	The U.S. in the 20th Century, 1945-Present
HIST 470	America and the Vietnam War
HIST 480	The American West
HIST 482	Experiential History/Americas
HIST 490	Special Topics in History of the Americas

2. Select two history courses from the International History concentration.

3. Select two complementary courses from the following areas (some of these courses may require additional pre-requisite course work):

ART 302	Artistic Traditions: Africa & the Americas (GEP Group F)
ECON 303	American Economic Development
ECON 405	Economic Growth and Development
ENGL 231	African American Literature
ENGL 261	American Literature: Colonial to Present
ENGL 372	Early Modern Literature
ENGL 373	Literature of the Enlightenment
ENGL 374	Age of Revolution
ENGL 375	Romanticism
ENGL 376	Realism and Naturalism
ENGL 377	Modernism
ENGL 378	Postmodernism
ENGL 379	Postcolonial Literature
GEOG 301	Geography of North America
GEOG 320	Geography of Latin America
GEOG 324	Urban Geography: Internal City Patterns
POSC 321	American State and Local Politics
POSC 331	Politics of Latin America
POSC 363	Media and Politics
POSC 421	American Legislative Politics
POSC 427	The American Presidency
POSC 471	American Political Thought
SOCI 307	African Americans in Appalachia
FREN 250 or above	(250 – GEP Group B)
SPAN 250 or above	(250 – GEP Group B)

Information Technology

Major	MAJOR	MINOR
Minor	Hours Required in Computer Science & Information Technology:	43-52
	Hours Required in Other Departments:	15-25
	Total Hours Required:	67-68

Tracks in

- ACCOUNTING
- BUSINESS INFORMATION TECHNOLOGY
- COMPUTER SECURITY
- GRAPHIC ARTS
- MASS COMMUNICATION

See related programs:

- COMPUTER INFORMATION SYSTEMS MAJOR & MINOR
- COMPUTER SCIENCE MAJOR & MINOR
 - CONCENTRATION IN NETWORKS
- CERTIFICATES IN:
 - COMPUTING TECHNOLOGY
 - SOFTWARE DEVELOPMENT
 - PROGRAMMING
 - NETWORKING

Professor:

Chitsaz, Rinard (Chair)

Associate Professor:

Thiel

Assistant Professors:

Amthauer, M. Flinn, Song, Xu, Zheng

- Computer science and information technology courses must have a grade of C or better to be applied towards major or minor requirements.
- You may receive credit by examination for the following courses: COSC 100, 101.

Summary of Requirements for Major/Minor in Information Technology

1. Core Courses: (15 hours)

COSC 100/110	Introduction to Computer Science (Tech. Fluency)	ITEC 462	Emerging Issues and Technologies
	or COSC 101 The Discipline of Computer Science (Tech. Fluency)	ITEC 475	Computer and Cyber Forensics
COSC 102	Foundations of Computer Science	ITEC 491	Seminar in Information Technology
COSC 130	Introduction to Programming	ITEC 494	Field Experience in Information Technology
COSC 305	Computer Ethics	ITEC 499	Individual Problems in Information Technology
ITEC 315	Programming		

2. Required Advanced Courses: (22 hours)

COSC 300	Structured Systems Analysis and Design
ITEC 312	Human-Computer Interaction
ITEC 345	Database Systems I
ITEC 355	Network Implementation
ITEC 360	Operating Systems
ITEC 470	Security and Risk Management
ITEC 480	Project Management
ITEC 489	Capstone Course

3. Other Required Courses: (12-13 hours)

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

4. Electives: (6 hours):

Choose a minimum of 6 hours in at least two courses:

ITEC 363	PC Module Installation and Maintenance
ITEC 364	PC Software Installation and Maintenance
ITEC 410	Diversity in the Global Information Technology
ITEC 414	Knowledge Management
ITEC 442	Electronic Commerce
ITEC 445	Database Systems II
ITEC 452	Network Administration and Security

Requirements for Minor in Information Technology

COSC 101	The Discipline of Computer Science (Tech. Fluency)
	or COSC 100 Introduction to Computer Science (Tech. Fluency)
COSC 102	Foundations of Computer Science
COSC 130	Introduction to Programming
ITEC 315	Programming

Two additional Information Technology courses at the 300-level or above.

5. Tracks/Application Areas (12 hours):

Choose one of the following tracks/application areas:

Accounting

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

Business Information Technology

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

Computer Security

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

Graphic Arts

ART 104	Two-Dimensional Design
ART 105	Three-Dimensional Design
ART 207*	Graphic Design
ART 307	Computer Graphics

*Students must see department chair for permission to enroll

Mass Communication

MCOM 105	Introduction to Mass Communication
MCOM 246	Intro to Mass Communication Research Methods
MCOM 287	Intro to Video Production
MCOM 346	Mass Communication Theory

JOURNALISM

Journalism

Minor

MINOR

Total Hours Required:

24

Coordinator:

A. Franklin Parks,
Professor, Department of English

Participating Faculty:

Professors:

Boniece (History), Lutz (English),
L. Pack (Mass Communication),
A. F. Parks (English)

Associate Professors:

Abbay (History), Charney (History),
Ewers (English)

Assistant Professors:

A. Duncan (English), S. Duncan
(English), G. Wood (History)

- The minor in journalism will help you develop:
 - Improved communication skills
 - Familiarity with the roles that journalists perform in different environments
 - Understanding of cultural differences, political matters, and global issues facing the practicing journalist today
 - Enhanced problem-solving skills
 - Ability to perform specific tasks related to print and media journalism
 - Awareness of legal and ethical restrictions on journalists
- You cannot major in journalism.

Summary of Requirements for Minor in Journalism

Minor

1. English: (12 hours)

ENGL 336 Journalistic Writing
ENGL 402 Editing and Production
ENGL 436 Advanced News and Feature Writing
ENGL 494 Field Experience

2. History: (3 hours)

*Choose one from the following:**

HIST 304 History of Latin America
HIST 341 Modern and Contemporary Middle East
HIST 353 Contemporary Africa
HIST 360 Modern and Contemporary Asia
HIST 376 Modern Europe
HIST 404 Revolutionary and Soviet Russia
HIST 467 U.S. in the 20th Century, 1945–Present
HIST 475 Genocide and Mass Violence

3. Mass Communication: (6 hours)

MCOM 326 Writing for the Electronic Media
MCOM 447 Telecommunications Law

4. Political Science: (3 hours)**

POSC 363 Media and Politics***

**Students minoring in journalism are encouraged to take HIST 100, The Contemporary World in Historical Perspective, towards fulfilling the six-hour requirement in the Humanities (Group B) for the General Education Program.*

***Students minoring in journalism are encouraged to take POSC 110, Introduction to American Politics, or POSC 113, Introduction to World Politics, towards fulfilling the six-hour requirement in the Social Sciences (Group D) for the General Education Program.*

****The Political Science Department has agreed to waive the pre-requisite for POSC 363 for journalism minors.*

Law

Bachelors/Juris Doctor Program

Dual-degree program

Hours Required at Frostburg State University	91
Hours Required at University of Baltimore School of Law	29
Total Hours Required:	120

Coordinator:

Scott Johnson, Associate Professor,
Department of Political Science

- Frostburg State University students may earn the last 29 of the 120 credit hours required by Frostburg State University for graduation at the University of Baltimore School of Law. The result of this Bachelors/Juris Doctor Program is that students may attain an undergraduate and a law degree in six years instead of the normal seven years.

Summary of Requirements at FSU for the Bachelors/Juris Doctor Program

1. Complete 91 credit hours with Frostburg State University.
2. Complete all of Frostburg State University's general education requirements.
3. Maintain cumulative grade point averages as required at FSU for the academic major and overall course work.
4. Complete all requirements for an academic major at Frostburg State University.
5. Be accepted by the University of Baltimore School of Law into its early admission program. Students can apply for early admission by simply checking the appropriate box on the regular application form.
6. Attain the Bachelor's degree from Frostburg State University upon transferring 29 credits from the University of Baltimore School of Law.

In addition it is recommended that students meet the following criteria:

1. Maintain a grade point average of 3.3 or above at Frostburg State University to enhance the chances for acceptance by the University of Baltimore School of Law.
2. Complete one of the following majors at Frostburg State University: economics, French, geography, history, law and society, philosophy, political science, psychology, sociology, or Spanish. Other majors are possible, but may require the completion of more than 91 credit hours.

Law and Society

Major

Concentrations in:

- CRIMINAL JUSTICE
- LEGAL STUDIES

Coordinator:

Scott Johnson, Associate Professor,
Department of Political Science

Coordinating Committee:

Professor:

D. Lewis (Political Science)

Associate Professors:

S. Johnson (Political Science),
McMullen (Sociology)

Assistant Professor:

Mathias (Philosophy)

- Law and Society is an interdisciplinary major that offers concentrations in criminal justice and legal studies.
- An internship is optional but strongly encouraged.
- You cannot minor in Law and Society.

	MAJOR	CRIMINAL JUSTICE CONCENTRATION	LEGAL STUDIES CONCENTRATION
Total Hours Required:	46-49	49	46

Summary of Requirements for Major in Law and Society

Major

1. Required Core Courses: (19 hours)

POSC 110 Intro. to American Politics (GEP Group D)	POSC 250 Research Methods
or POSC 112 Honors Intro. to American Politics (GEP Group D)	or SOCI 311 Basic Research Methods
SOCI 100 Intro. to Sociology (GEP Group D)	POSC 422 American Constitutional Law I
or SOCI 111 Honors Intro. to Sociology (GEP Group D)	POSC 423 American Constitutional Law II
PHIL 102 Contemporary Ethical Problems (GEP Group B)	POSC 489 Law & Society Capstone
or PHIL 201 Ethics	

2. Concentrations: (27-30 hours) Complete one of the following concentrations:

Concentration in Legal Studies (27 hours)

A. Required Course (3 hours)

PHIL 410 Philosophy of Law

B. Elective Courses (24 hours)

Select a total of eight courses, with at least three from Group 1 and at least four from Group 2:

Group 1

BLAW 291	Legal Environment of Business
GEOG 473	Environmental Law
MCOM 447	Telecommunications Law
MGMT 457	Labor Relations
POSC 324	Criminal Justice Systems
POSC 488	Comparative Legal Systems

Group 2

CMST 302	Argumentation and Advocacy
PHIL 205	Logic
PHIL 304	Social Philosophy
POSC 321	State and Local Politics
POSC 323	Public Administration
POSC 358	American Public Policy
SOCI 340	Criminology
SOCI 442	Juvenile Delinquency
SOCI 443	The American Correctional System

LAW SCHOOL PREPARATION

Concentration in Criminal Justice (30 hours)**A. Required Courses (30 hours)**

CMST 102 Introduction to Human Communication
 or CMST 122 Introduction to Public Speaking
 PHIL 304 Social Philosophy
 or PHIL 410 Philosophy of Law
 POSC 324 Criminal Justice Systems
 SOCI 200 Social Problems
 or SOCI 203 Deviant Behavior
 SOCI 340 Criminology
 SOCI 443 The American Correctional System

B. Elective Courses (12 hrs)

Select any **FOUR (4)** of the following courses:

POSC 321 American State & Local Politics
 POSC 323 Public Administration

POSC 355 Public Budgeting
 POSC 358 American Public Policy
 POSC 455 Public Program Evaluation
 PSYC 340 Forensic Psychology
 PSYC 386 Drugs & Human Behavior
 SOCI 305 Racial & Cultural Minorities
 SOCI 442 Juvenile Delinquency
 SPAN 101 Basic Elements Of Spanish I
 SPAN 211 Spanish Grammar & Composition

3. Internship: (optional; 9 or 15 hours)

POSC 492 Internship Seminar
 POSC 495 Internship in Political Science

Law School Preparation

Pre-professional program

Pre-law Advisor:

Scott Johnson, Associate Professor,
 Department of Political Science

- While you cannot major or minor in law school preparation, there are law-related courses offered at Frostburg State University.
- Prospective law students should carefully examine the catalog of the law school they wish to attend in order to determine the test requirements for that school.

The traditional preparatory majors for entering law schools have been political science, history, English, philosophy, or sociology. Most law schools prefer that undergraduates interested in admission to law school *not* follow a prescribed "pre-law" curriculum. Rather, they prefer that students pursue a broad, *liberal* education.

Almost all professional law schools require applicants to take the Law School Aptitude Test. In some cases, the Graduate Record Exam may also be required. Information regarding the L.S.A.T. may be obtained from this university's pre-law advisor. Information regarding the G.R.E. may be obtained from University Counseling and Psychological Services.

Prospective law students should strive to acquire exceptional ability in communication; gain critical understanding of human values and institutions; and develop understanding in the use of various types of reasoning: deductive, inductive, and analogous. Students should develop the ability to think creatively and to analyze critically. They should also learn how to recognize, differentiate, and organize facts according to their relevance to particular issues.

Suggested Elective Courses for Law School Preparation

The following courses may be especially helpful in achieving the qualities stated above. Students are advised to choose elective courses from this list:

BLAW 291	Legal Environment of Business	ENGL 338	Technical Writing
CMST 122	Intro. to Public Speaking	GEOG 450	Urban Planning
CMST 225	Interviewing	GEOG 473	Environmental Law
CMST 302	Argumentation & Advocacy	HIST 103,104	History of U.S. I, II
CMST 322	Presentational Communication	PHIL 102	Contemporary Ethical Problems
CMST 451	Seminar in Communication Theory	PHIL 205	Logic
ECON 307	Govt. and Business	PHIL 410	Philosophy of Law
ECON 404	Public Finance	POSC 324	Criminal Justice Systems
ENGL 330	Business Writing	POSC 422,423	American Constitutional Law I, II
ENGL 334	Creative Writing	SOCI 200	Social Problems
ENGL 336	Journalistic Writing	SOCI 443	The Amer. Correctional System

Law School Admission Test (LSAT) Preparation Course

This non-credit course is designed to help students prepare for the Law School Admission Test (LSAT), a prerequisite for all students seeking admission to law school. The course is offered twice during the academic year in preparation for the October and June tests. There is a fee for the course that covers the costs of instruction and a textbook that contains more than 500 questions and problems, including analytical exercises, practice tests, and a full-length home-study exam. The course covers each of the main sections of the LSAT in depth: application of rules, reading comprehension, logical games, logical reasoning, and essay writing. For each section, students are exposed to a wide variety of sample questions, which are analyzed in class, and various suggestions and methods are presented in lectures for approaching the types of questions in each section.

Graduates of the LSAT prep course have gained admission to such law schools as The Georgetown University Law Center, Duquesne University School of Law, The University of Baltimore School of Law, The West Virginia University College of Law, Appalachian School of Law, Ohio Northern University College of Law, The Thomas M. Cooley Law School, and Liberty College of Law.

For further information, contact Dr. Scott Johnson, pre-law advisor and instructor of the course.

Mass Communication

Major

	MAJOR	MINOR
Hours Required in Mass Communication	30-42	24
Hours Required in Other Departments:	3-15	0
Total Hours Required:	45	24

Professors:

Pack, Phipps

Associate Professor:

Lombardi (chair)

Assistant Professor:

McAlexander

Instructor:

Boehm

- Only courses in which you earn a grade of C or better may count towards satisfaction of major requirements.
- All grades earned in courses completed for the major in Mass Communication count in determining whether you meet the graduation requirement of a 2.0 cumulative grade point average in the major.
- All courses completed for the Mass Communication major count in determining whether one-half of the major is completed at FSU.

Summary of Requirements for Major In Mass Communication

Major

1. Introductory/Prerequisite Course: (3 hours)

MCOM 105 Introduction to Mass Communication

2. Mass Communication Practice Courses: (9 hours)

ART 207 Graphic Design (*Tech. Fluency*)
 MCOM 287 Introduction to Video Production
 MCOM 246* Introduction to Mass Communication Research Methods

3. Advanced Mass Communication Courses: (18 hours)

MCOM 326* Writing for Electronic Media
 MCOM 346* Mass Communication Theory
 MCOM 447* Telecommunications Law
 MCOM 485* Electronic Media Aesthetics & Criticism
 MCOM 486* Current Issues and New Technology in Mass Communication
 MCOM 498* Senior Seminar in Mass Communication (*Capstone*)

4. Internship: (Minimum of 3 hours)

MCOM 492 and 495 Internship Project/Extended Internship
 or MCOM 494 Internship
 or One 3-credit Mass Communication Elective

5. Professional Focus: (12 hours)

All MCOM majors must complete one of the focus groupings listed below OR one of the following minors: *Communication Studies, Graphic Design, Journalism, Leadership Studies, Marketing or Public Relations*. Students wishing to substitute a course for one of the courses in the listed focus groupings may petition the Chair, in writing, prior to earning 90 credit hours. Many of these courses have prerequisites and students should plan their earlier studies accordingly.

Audio Production

Choose four from:

MCOM 213 Audio Production
 MCOM 250 Announcing and Performance
 MCOM 313* Advanced Audio Production
 MCOM 465* Music Promotion and Production
 MCOM 499* Directed Study
 MUSC 358 The Business of Music and Arts Management

Video Production

MCOM 387* Multi-Camera Studio Production
 MCOM 487* Advanced Video Production
 MCOM 488* Multi-Camera Field Production
 MCOM 499* Directed Study

Audio/Video Production

Choose two from each group:

Group 1

MCOM 213 Audio Production
 MCOM 250 Announcing and Performance

Minor

1. Required Courses (18 hours)

MCOM 105 Introduction to Mass Communication
 MCOM 246* Intro. to Mass Communication Research Methods
 MCOM 346* Mass Communication Theory
 MCOM 447* Telecommunications Law
 MCOM 485* Electronic Media Aesthetics and Criticism
 MCOM 486* Current Issues & New Technologies in Mass Communication

2. Electives (6 hours)

Select six additional credits of MCOM courses (excluding MCOM 100 and MCOM 101)

5. Professional Focus for majors continued:

MCOM 313* Advanced Audio Production
 MCOM 465* Music Promotion and Production
 MCOM 499* Directed Study
 MUSC 358 The Business of Music and Arts Management

Group 2

MCOM 387* Multi-Camera Studio Production
 MCOM 487* Advanced Video Production
 MCOM 488* Multi-Camera Field Production
 MCOM 499* Directed Study

Radio Industry

Choose four from:

MCOM 150 Introduction to Radio
 MCOM 213 Audio Production
 MCOM 250 Announcing and Performance
 MCOM 313* Advanced Audio Production
 MCOM 316* Electronic Media Management
 MCOM 336* Broadcast-Cable Programming

Media Management†

Choose four from:

CMST 225 Interviewing
 CMST 335 Organizational Communication
 CMST 345 Conflict Communication
 MCOM 316* Electronic Media Management
 MCOM 336* Broadcast-Cable Programming
 MGMT 351* Management of Organizations
 MGMT 356* Leadership and Human Behavior
 MGMT 357* Human Resource Management
 MUSC 358 The Business of Music and Arts Management

Multimedia Design

ART 307* Computer Graphics
 and choose 9 hours (3 hours in one course and 6 hours in the other) from:

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

*Course has prerequisites; consult the course description section of this catalog

† This program is intended to give a foundational background in some business aspects of MCOM, but is not intended as preparation for a professional career in business.

MATHEMATICS

Events Planning

Choose four from:

- CMST 102 Introduction to Human Communication
or CMST 122 Introduction to Public Speaking
- LEAD 101 Introduction to Leadership Studies
- MCOM 465* Music Promotion and Production
- MCOM 499* Directed Study
- MUSC 328 The Business of Music and Arts Mgmt.
- RECR 382 Program Planning
- RECR 384 Special Events Management

Web Management

- COSC 101 The Discipline of Computer Science
(Tech. Fluency)
- COSC 120 Introduction to Cyberspace
- COSC 330* Web Design and Development
- COSC 345* The Internet & Multimedia Communication

Media Promotions[†]

Choose four from:

- CMST 322 Presentational Communication
- MCOM 456* Creative Strategies in Adver. & Media Buying
- MCOM 465* Music Promotion and Production
- MCOM 499* Directed Study
- MKTG 361* Principles of Marketing
- MKTG 366* Consumer Behavior
- MUSC 358 The Business of Music and Arts Management

Mathematics

Major

Minor

Teaching Certification Option

	MAJOR	MINOR	TEACHING CERT. OPTION
Hours Required in Mathematics:	39	21	39
Hours Required in Other Departments:	0	0	42.5
Total Hours Required:	39	21	81.5

Summary of Requirements for Major/Minor in Mathematics

Major

1. Basic Courses (21 hours)

- MATH 236 Calculus I (Core Skill 3)
- MATH 237 Calculus II
- MATH 238 Calculus III
- MATH 350 Linear Algebra I
- MATH 470 Mathematical Models
- MATH 491 Seminar in Mathematics (Capstone)

2. Electives (18 hours)

Select from courses at the 300 or 400 level, except MATH 340 Fundamental Concepts of Geometry, MATH 483 Theory of Interest, MATH 485 Actuarial Mathematics II, or MATH 495 Internship in Mathematics

Minor

1. Basic Courses (12 hours)

- MATH 236 Calculus I (Core Skill 3)
- MATH 237 Calculus II
- MATH 238 Calculus III

2. Electives (9 hours)

Select from courses at the 300 or 400 level, except MATH 340 Fundamental Concepts of Geometry, MATH 483 Theory of Interest, MATH 485 Actuarial Mathematics II, or MATH 495 Internship in Mathematics

Professors:

Hegde, Hughes, K. Lemmert,
K. Parks, Revennaugh

Associate Professors:

Barnet, Elder, Michael (Chair),
Wojnar

Assistant Professor:

Forsythe

Lecturer:

N. Tootoonchi

- You may major or minor in Mathematics
- You may elect the teaching certification option with required internship.
- Elementary Education students may elect a specialization in Mathematics.
- You may elect to focus in Mathematical Sciences (see next section). The Mathematical Sciences Focus is designed for mathematics, chemistry, and physics majors.
- The department offers an honors program.

Summary of Requirements for Major in Mathematics - Teaching Certification Option

1. Basic Core Curriculum (21 hours)

- MATH 236 Calculus I (Core Skill 3)
- MATH 237 Calculus II
- MATH 238 Calculus III
- MATH 350 Linear Algebra I
- MATH 470 Mathematical Models and Applications
- MATH 491 Seminar in Mathematics (Capstone)

2. Mathematics Teaching Certification Option Requirements (18 hours)

- MATH 380 Introduction to Probability and Statistics
- MATH 437 Combinatorics and Graph Theory
- MATH 440 Modern College Geometry
- MATH 461 History of Mathematics
- MATH 465 Theory of Numbers
- MATH 415 Foundations of Mathematics
or MATH 451 Modern Higher Algebra

3. Professional Education Sequence (42.5 hours)

Summary of Requirements for Teaching Certification

If you wish to complete a Maryland State approved program in teaching Mathematics, you must:

- Complete the BA/BS in Mathematics - Teaching Certification Option.
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: Secondary School Programs

Mathematical Sciences

Focus

	FOCUS
Hours Required in Mathematics:	12
Hours Required in Other Departments:	10-12
Total Hours Required:	22-24

Coordinator:

Marc Michael, Chair,
Department of Mathematics

- You may elect to focus in Mathematical Sciences.
- The Mathematical Sciences Focus is designed for Mathematics, Chemistry, and Physics majors.
- You cannot major or minor in Mathematical Sciences.

Summary of Requirements for Focus in Mathematical Sciences

Focus

1. Core Mathematics Courses: (3 hours)

From among:

MATH 415	Foundations of Mathematics
MATH 425	Introduction to Real Analysis
MATH 440	Modern College Geometry
MATH 451	Modern Higher Algebra
MATH 452	Linear Algebra II
MATH 460	Introductory Topology
MATH 465	Theory of Numbers

MATH 437	Combinatorics and Graph Theory
MATH 470	Mathematical Models and Applications
MATH 480	Probability and Statistics
MATH 481	Applied Regression Analysis
MATH 492	Internship Seminar

2. Applied Mathematics: (9 hours)

From among:

MATH 380	Introduction to Probability and Statistics
MATH 420	Advanced Calculus
MATH 426	Introduction to Complex Analysis
MATH 432	Differential Equations
MATH 435	Numerical Analysis
MATH 436	Mathematical Physics

3. Required Courses in Other Departments:

Computer Science (7-8 hours)

From among:

COSC 240	Computer Science I
COSC 241	Computer Science II
COSC 350	Low-Level Programming Concepts
COSC 450	Programming Language Principles and Paradigms

Science (3-4 hours)

PHYS 261	Principles of Physics I (GEP Group C) or
CHEM 441	Physical Chemistry I

Medical Technology Preparation

Pre-professional program

FOR PRE-PROFESSIONAL PROGRAM

Total Hours:

60 minimum

Coordinator:

Mary Mumper, Associate Professor,
Department of Chemistry

- You must complete at least 60 hours of academic preparation, exclusive of Health & Physical Education, before beginning the professional segment of this program.
- The Summary of Requirements will assist you in planning your first two years of study which fulfill the requirements of the University of Maryland, Baltimore, and the National Accrediting Agency for Clinical Laboratory Science. Students interested in attending other institutions should consult their catalogs for specific entrance requirements.
- The Pre-Medical Technology Program is competitive and high-quality academic performance is expected.
- You cannot major or minor in Medical Technology Preparation.

Summary of Requirements for Pre-professional Program in Medical Technology

1. Biology: (15-16 hours)

BIOL 149	General Biology I
BIOL 304	Microbiology
BIOL 321	Anatomy and Physiology I

Biology Elective - choose one from the following:

BIOL 310	Cell Biology
BIOL 322	Anatomy and Physiology II
BIOL 350	Genetics

2. Chemistry (12 hours)

CHEM 201	General Chemistry I
CHEM 202	General Chemistry II
CHEM 301	Organic Chemistry I

3. English (6 hours)

ENGL 101/111	Freshman Composition or ENGL 310/312 Advanced Composition
ENGL 150/250	Intro. to Literature or an advanced English/American Literature course

4. Humanities (3 hours)

Select a non-performing course from art, music, foreign language (2nd year or above), humanities, communication studies, theatre, philosophy.

5. Mathematics (6 hours)

MATH 102	College Algebra
MATH 209/219	Elements of Applied Probability and Statistics

6. Guided Electives (3 hours)

Choose one course:

CMST 102/112	Introduction to Human Communication
COSC 100/110	Intro. to Computer Science or an advanced computer science course

7. Social Sciences (6 hours)

Select courses from economics, geography, history, political science, psychology, sociology, African American studies.

8. Electives (minimum 8 hours)

Strongly recommended:

BIOL 150	General Biology II
BIOL 322	Anatomy and Physiology II (if not selected as a Biology elective)
BIOL 438	Biotechnology Lab
CHEM 302	Organic Chemistry II
PHYS 215	General Physics I and PHYS 216 General Physics II or PHYS 261 Principles of Physics I

Medicine • Dentistry • Optometry • Veterinary Medicine Preparation

Pre-professional programs

Coordinator:

Mary Mumper, Chair,
Health Professions Advisory Com-
mittee and Associate Professor,
Department of Chemistry

- Students applying for professional school should stay in contact with the Health Professions Advisory Committee. The committee interviews candidates for professional school and supplies a committee letter of recommendation to the applicants' prospective school. This procedure enhances the students' application prospects.

Summary of Requirements for Medical, Dental, Optometry & Veterinary Medicine Pre-Health Professions Program

1. Students intending to enter health professions schools should plan their academic programs carefully to meet pre-professional, university and major requirements.
2. Pre-health professions students should continually examine the catalog of the institution they plan to attend in order to complete courses required by the professional school and to fulfill additional entrance expectations. Students should bear in mind that requirements change and they should maintain contact with any professional schools they want to attend.
3. A science major is not a prerequisite for medical school; therefore, a major should be selected in which the student has a high aptitude and interest and which provides career alternatives. A proper course selection is most important; consequently, we highly recommend early consultation with the chair of the department of your selected major, who will assign you to a pre-health professions advisor.
4. Most pre-health professions students at FSU select biology or chemistry as majors. The Pre-Health Professions Option outlined in the Biology section of this catalog should be selected by students majoring in Biology. Chemistry students planning medical school and other pre-health professional programs complete either the Biochemistry concentration or Traditional Track outlined for the Chemistry major. Students opting to minor in either department are advised to use sections 5 and 6 below as a guide to course selection.

5. Professional schools generally require a demonstrated proficiency in the basic sciences. The following courses are among the minimum requirements for students planning to prepare for medical, dental, optometry or veterinary school.

BIOL 149 and 150	General Biology I and II	8 cr.
CHEM 201 and 202	General Chemistry I and II	8 cr.
CHEM 301 and 302	Organic Chemistry I and II	8 cr.
PHYS 215, 216 or 261, 262	General Physics I, II or Principles of Physics I, II	8 cr.
MATH — 2 courses	*See options in #6	6 cr.

6. Some professional schools require and many recommend additional courses as minimal requirements. The following list should be used as a guide for course selection by students in any major.

BIOL 302	Animal Physiology	4 cr.
BIOL 304	Microbiology	4 cr.
BIOL 310	Cell Biology	4 cr.
BIOL 321	Anatomy & Physiology I	4 cr.
BIOL 322	Anatomy & Physiology II	4 cr.
BIOL 350	Genetics	3 cr.
BIOL 401	Genetics Laboratory	1 cr.
BIOL 404	Histology	4 cr.
BIOL 427	Comparative Anatomy	4 cr.
BIOL 435	Molecular Biology	4 cr.
CHEM 320	Quantitative Analytical Chemistry	4 cr.
CHEM 441, 442	Physical Chemistry Lec. I & II	6 cr.
CHEM 455, 457	Biochemistry Lec. I & II	6 cr.
ENGL 338	Technical Writing	3 cr.
MATH 120	Pre-Calculus	3 cr.
MATH 209 or 380	Probability & Statistics	3 cr.
MATH 236, 237, 238	Calculus I, II, III	12 cr.
PHIL 313	Biomedical Ethics	3 cr.

7. Biochemistry I (CHEM 455) is an entrance requirement at the Virginia-Maryland Regional College of Veterinary Medicine.

8. Almost all professional schools require applicants to take certain standardized examinations.

Medical Schools	—	Medical College Admission Test (MCAT)
Dental Schools	—	Dental Admissions Test (DAT)
Optometry Schools	—	Optometry Admission Test (OAT)
Veterinary Schools	—	Graduate Record Exam (GRE)

You may obtain information about the tests from Career Services.

Music

Major and minor

Concentrations in:

- VOCAL PERFORMANCE
- MUSIC MANAGEMENT

Track in:

- INSTRUMENTAL PERFORMANCE

Teaching Certification Option

Professors:

Dixon, Grolman,
Soderberg-Sarnaker

Associate Professor:

M. Gallagher (Chair)

Instructor:

Klickman

- All students entering or re-entering the major are required to pass an audition in their primary performance area before being accepted as a music major. Students changing their primary performance area must re-audition before being re-accepted as a music major.
- You must choose a concentration, a track or the teaching certification option.
- Only courses in which you earn a grade of C or better will count towards satisfaction of major requirements.

	TEACHING CERT. OPTION	MAJOR CONCENTRATIONS		MAJOR TRACK	
		VOCAL PERFORM	MUSIC MGMT	INSTRUMENTAL PERFORM	MINOR
Hours Required in Music:	61.5	66	63.5-66.5	63	23
Hours Required in Other Depts:	37.5	15-24	21	0	0
Total Hours Required:	99	81-90	84.5-87.5	63	23

Summary of Requirements for Major/Minor in Music

Major

Core Requirements: (47.5-49 hours)

1. Music Theory: (16 hours)

MUSC 102 Theory I
MUSC 103 Theory II (*Tech. Fluency*)
MUSC 104 Aural Skills I
MUSC 105 Aural Skills II
MUSC 204 Theory III
MUSC 205 Theory IV
MUSC 206 Aural Skills III
MUSC 207 Aural Skills IV

2. Music History & Literature: (9 hours)

MUSC 110 World Music (*GEP Group A*)
or MUSC 117 Music of Africa, Asia & the Americas
(*GEP Group A or F*)
MUSC 308 Music History I
MUSC 309 Music History II

3. Ensemble:

(8 hours for performance specializations, 7 hours for music mgmt. and teaching cert.)

Select from:

MUSC 319 University Chorale
MUSC 330 Wind Ensemble
MUSC 336 Chamber Guitar Ensemble

4. Piano Proficiency: (0 hours)

MUSA 415 Piano Proficiency Exam

5. Private Instruction: (12 hours)

MUSA 116-123 Private Instruction
and/or MUSA 356-363 Private Instruction

6. Recital Attendance:

(4 hours for performance specializations, 3.5 hours for music mgmt and teaching cert.)

MUSA 101 Student Recital Attendance

7. Sophomore Evaluation: (0 hours)

MUSA 287 Sophomore Evaluation

Minor

Core Requirements: (23 hours)

1. Music Theory: (8 hours)

MUSC 102 Theory I
MUSC 103 Theory II (*Tech. Fluency*)
MUSC 104 Aural Skills I
MUSC 105 Aural Skills II

2. Music History & Literature: (6 hours)

MUSC 308 Music History I
MUSC 309 Music History II

3. Ensemble: (3 hours)

Select from:

MUSC 319 University Chorale
MUSC 330 Wind Ensemble
MUSC 336 Chamber Guitar Ensemble

5. Private Instruction: (4 hours)

MUSA 116-123 Private Instruction
and/or MUSA 356-363 Private Instruction

6. Recital Attendance: (2 hours)

MUSA 101 Student Recital Attendance

MUSIC

Summary of Requirements for the Teaching Certification Option in Music

1. Core Courses: (47.5 hours)

Required for all music majors; listed above.

2. Recital Requirement: (1 hour)

MUSA 490 Senior Recital (*Capstone*)

3. Other Required Courses for P-12

Teaching Certification: (51.5 hours)

If you wish to complete a Maryland State approved program in teaching Music, you must:

- Complete the following additional courses in Music:
 - MUSA 108 Class Instruments I: Strings
 - MUSA 208 Class Instruments II: Woodwinds
 - MUSA 209 Class Instruments III: Brass
 - MUSA 311 Class Instruments IV: Percussion
 - MUSC 310 Basic Principles of Conducting I - Choral
 - MUSC 410 Basic Principles of Conducting II - Instrumental
- If your performing area is instrumental, you must complete 2 credit hours of MUSC 319 University Chorale
- If your performing area is guitar, you must complete 2 credit hours of MUSC 319 University Chorale and 2 credit hours of MUSC 330 Wind Ensemble
- If your performing area is vocal, you must complete MUSA 210 Diction
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in the Education: P-12 Programs.

Summary of Requirements for the Instrumental Performance Track

1. Core Courses: (49 hours)

Required for all music majors; listed above.

2. Recital Requirements: (2 hours)

MUSA 390 Junior Recital

MUSA 490 Senior Recital (*Capstone*)

3. Supplementary Requirements: (5 hours)

MUSA 104, 105 Class Piano

MUSA 116-123 Private Instruction

MUSA 356-363 Private Instruction

MUSC 315, 327, 331, 337, 339, 340 Ensembles

4. Other Requirements: (7 hours)

MUSC 310 Basic Principles of Conducting I - Choral

And select four hours from:

MUSA 213 Piano Pedagogy

MUSC 305 Orchestration

MUSC 358 Business of Music and Arts Management

MUSC 360 Special Topics in Music (*up to 4 credits*)

MUSC 401 Form and Analysis

MUSC 407 Counterpoint

MUSC 499 Individual Research in Music (*up to 4 credits*)

Summary of Requirements for the Music Management Concentration

1. Core Courses: (47.5 hours)

Required for all music majors; listed above.

2. Advanced Courses: (16-19 hours)

MCOM 465 Music Promotion and Production

MUSC 390 Junior Recital

MUSC 358 The Business of Music and Arts Management

MUSC 492 Senior Project Paper (*Capstone*)

MUSC 495 Internship in Music Management (6 or 9 hours)

3. Required Courses in Other Departments:

(*Business Administration Minor*)(21 hours)

ACCT 211 Financial Accounting

BUAD 100 Introduction to Business

or BLAW 291 Legal Environment of Business

FINA 303 Principles of Finance

or FINA 370 Corporate Finance

or FINA 476 Financial Management

MGMT 351 Management of Organizations

MGMT 356 Leadership and Human Behavior

or BMIS 320 Advanced Computer Applications in Business

MKTG 361 Principles of Marketing

ECON 200 Basic Economics (*GEP Group D*)

or ECON 201/211 Principles of Economics-Macro (*GEP Group D*)

Summary of Requirements for the Vocal Performance Concentration

1. Core Courses: (49 hours)

Required for all music majors; listed above.

2. Recital Requirements: (2 hours)

MUSA 390 Junior Recital

MUSA 490 Senior Recital (*Capstone*)

3. Supplementary Requirements: (5 hours)

MUSA 104, 105 Class Piano

MUSA 116-123 Private Instruction

MUSA 356-363 Private Instruction

MUSC 315, 327, 331, 337, 339, 340 Ensembles

4. Other Requirements for Vocal Performance Majors: (10 hours)

MUSC 210 Diction

MUSC 310 Basic Principles of Conducting I - Choral

MUSC 401 Form & Analysis

MUSC 413 Vocal Pedagogy

5. Foreign Languages & Literature: (15-24 hours)

select one of the following options:

a. A minor in Foreign Languages & Literature:

The minor in French or Spanish consists of a minimum of 18 hours. Students minoring in a language who begin course work at the 300 level are required, through accelerated placement, to pay a fee of \$10.00 per credit hour for the 211, 212 and 250 courses. The 250 course counts toward GEP Group B. If you have no background in French or Spanish, you will need to begin with the 101-102 sequence and complete up to 24 hours in language.

b. Language Option

Select 3 credits from

MDFL 190 Italian

MDFL 190 German,

SPAN 101 or FREN 101

and complete 12 credits from

SPAN 102, 211, 212, 250

or FREN 102, 211, 212, 250

Nursing

RN to BSN Completion Program

Collaborative Transfer Program

Major

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

Coordinator:

Heather A. Gable, Chair,
Department of Nursing

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

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

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

The program is open to all registered nurses who meet the program admissions criteria including an active, unencumbered RN license from within the United States. The program builds on the elements of Associate Degree nursing education. Third or fourth semester students enrolled in an Associate Degree in Nursing (ADN) program at a community college who meet the admission criteria (with the exception of RN licensure) are eligible to take 6 credits (limited to NURS 401 and NURS 403) prior to licensure. Courses are delivered in a part-time, online format to maximize scheduling flexibility and maintain the student-faculty connection that is essential to academic success.

Program Goal

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

Program Objectives

The RN to BSN Program prepares the graduate to:

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

Summary of Requirements for Major in Nursing

General Education Program

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

CORE SKILLS

- | | | |
|-----------------|--|---------|
| 1. ENGL 101 | Freshman Composition (1) | 3 hours |
| 2. ENGL 308 | Social Sciences Advanced Composition (2)*
or ENGL 338 Technical Writing (2)*
or ENGL 339 Scientific Writing (2)* | 3 hours |
| 3. MATH 209/219 | Elements of Applied Probability & Statistics | 3 hours |

MODES OF INQUIRY

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

- | | | |
|--|--|---------|
| A. The Fine and Performing Arts | | 3 hours |
| B. The Humanities | | 6 hours |
| C. The Natural Sciences | | |
| CHEM 201 | General Chemistry I* | 4 hours |
| BIOL 321 | Anatomy and Physiology I (articulated) (1) | 4 hours |
| D. The Social Sciences | | |
| PSYC 150 | Introduction to Psychology (1) | 3 hours |
| SOCI 100 | Introduction to Sociology (1) | 3 hours |
| E. The FSU Colloquia | | 3 hours |
| IDIS 150 | Freshman Colloquium (or a 3 credit interdisciplinary ACM course approved for GEP credit in the "Interdisciplinary and Emerging Issues" category) | |
| IDIS 350 | Advanced Colloquium (2)
or one additional course from Groups A - D | 3 hours |
| F. Identity and Difference | | 3 hours |

Total General Education Hours **41 hours**

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

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

* Chemistry 201 must be completed prior to enrollment in any upper-division nursing courses. Corequisite for FSU's chemistry 201 is MATH 102 (College Algebra). Advanced composition should be completed prior to or soon after beginning nursing courses.

Additional Prerequisite Courses+

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

- | | | |
|--|-------------------------------|---------|
| BIOL 322 | Anatomy and Physiology II (1) | 4 hours |
| BIOL 304 | Microbiology (1) | 4 hours |
| HEED 200 | Nutrition | 3 hours |
| PSYC 208 | Intro to Lifespan Development | 3 hours |
| ACM's Psychology 203 Human Growth and Development or a Human Growth and Development course from another institution approved by the Program Coordinator. (1) | | |

Total Additional Hours **14 hours**

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

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

Upper Division Credits**TOTAL HOURS FOR UNENCUMBERED RN LICENSE****30 hours****Courses that must be completed at FSU******1. Discipline core courses:**

NURS 401	Health Assessment	3 hours
NURS 402	Nursing Research and Evidence-Based Practice	3 hours
NURS 403	Elements of the Professional Nursing Role	3 hours
NURS 404	Nursing Informatics (<i>Tech. Fluency</i>)	3 hours
NURS 405	Ethics in Contemporary Nursing Practice	3 hours
NURS 406	Leadership for Quality and Safety	3 hours
NURS 494	Population-Focused Nursing Practice	6 hours
NURS 496	Capstone Project	2 hours

2. Courses outside the discipline:**a. Required:**

MGMT 356	Leadership and Human Behavior	3 hours
----------	-------------------------------	---------

b. Electives*(choose one of the following):*

CMST 300	Interpersonal Communication	3 hours
HEED 418	Current Issues in Health	
HLTH 330	Epidemiology of Health	
HLTH 430	Methods and Materials for Health Promotion	
HLTH 435	Health Promotion Programming	
MGMT 359	Quality Management	
PSYC 386	Drugs and Human Behavior	
PSYC 430	Health Psychology	
SOCI 367	Sociology of Medicine	
SOWK 468/SOCI 468	Sociology of Later Life	

Total Hours in Major:**32 hours**

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

Nursing Preparation

Pre-professional program

PRE-PROFESSIONAL PROGRAM

Total Hours Required:

60

Coordinator:Kara Platt, Lecturer,
Department of Nursing

- Prospective nurses interested in a B.S. degree from a school of nursing may take a two-year program at FSU. It is expected that each student enrolled in the pre-nursing program will earn and maintain **a minimum 3.2** cumulative grade point average.
- Most nursing schools (including the University of Maryland, Baltimore School of Nursing) require an admissions test prior to applying. Students should consult individual nursing schools for information.
- You cannot major or minor in Nursing Preparation.
- This program does not result in a degree in nursing.

A liberal arts program is recommended as preparation for professional study in the field of nursing, particularly if you are interested in the additional career opportunities available to those earning a B.S. degree in Nursing.

1. Biology: (16 hours)

BIOL 149	General Biology I
BIOL 304	Microbiology
BIOL 321	Anatomy & Physiology I
BIOL 322	Anatomy & Physiology II

2. Chemistry: (4 or 8 hours*)

CHEM 201	General Chemistry I
CHEM 202	General Chemistry II

(*The University of Maryland, Baltimore only requires CHEM 201)

3. English: (6 hours)

ENGL 101	Freshman Composition
ENGL 338	Technical Writing or ENGL 339 Scientific Writing

4. Humanities: (9 hours)

Must include courses from at least three of the following disciplines:

English (literature courses), history, philosophy, foreign languages, music/art (history and/or appreciation), speech

5. Social Sciences (12 hours)

PSYC 150	General Psychology
PSYC 208	Intro to Lifespan Development
SOCI 100	Introduction to Sociology

6. Other Required Courses: (9 hours)

HEED 200	Nutrition (<i>to be taken in Spring of 2nd year</i>)
MATH 102	College Algebra or MATH 103 Trigonometry
MATH 209	Elements of Probability and Statistics

OCCUPATIONAL THERAPY PREPARATION

Occupational Therapy Preparation

Pre-professional program

Coordinator:

Karen Keller, Assistant Professor,
Department of Biology

- To apply, candidates must have a **cumulative GPA of 3.0** or better.
- You cannot major or minor in Occupational Therapy Preparation.

The following information is relevant for students interested in the Combined BS/MS Occupational Therapy Program at Towson University. The prerequisite courses may also be taken, together with additional requirements, by students interested in completing a professional occupational therapy program at other institutions. Applicants must consult the occupational therapy pages on Towson's website for additional information about the program, including any changes made subsequent to this catalog. Applicants are also highly encouraged to contact the Admissions and Placement Coordinator for the College of Health Professions at Towson University for additional information at 410.704.2653.

- By December 21 of the year prior to application, candidates must complete General Biology I or Anatomy and Physiology I **and** two of the following: Freshman Composition, General Psychology and Introduction to Sociology.
- The remaining prerequisite course must be completed by May 30 of the application year.
- Candidates must earn a grade of B- (2.67) or better in all four prerequisites.
- Candidates must apply to Towson University and complete the Supplemental Application for the Combined BS/MS Program that can be found online at the website listed at the bottom of this page. The supplemental application must be received by March 1.
- By March 1 of application year, candidates must complete a minimum of 14 credits of college-level courses.
- By the screening deadline, candidates must complete at least 30 hours of human service activity. See the supplemental application for details.
- By August 31 of the year prior to the first term of the Occupational Therapy Program, candidates must complete a minimum of 23 credits that meet Towson University's General Education or Core Curriculum requirements.

Summary of Requirements for Pre-professional Program in Occupational Therapy

Prerequisite Courses: (13 hours)

BIOL 149 General Biology I
or BIOL 321 Anatomy and Physiology I
ENGL 101/111 Freshman Composition
PSYC 150/151 General Psychology
SOCI 100/111 Intro. to Sociology

For further information, consult the website for Towson University, Combined Bachelor's & Master's OT Program: www.towson.edu/ot.