

# *The College of Arts and Sciences*

*Debra C. Boyd, Dean*

*Sarah F. Stallings, Associate Dean*

## **Undergraduate Degree Programs and Requirements**

The College of Arts and Sciences provides educational opportunities for students to gain knowledge, insights, and skills in order to grow more sensitive to the significance of the human heritage, to participate and contribute knowledgeably and effectively as citizens, and to lead rewarding, productive, and enriched lives within the contemporary world.

Providing the liberal arts foundation for all Winthrop University students, the College of Arts and Sciences offers a broad spectrum of general education courses so undergraduate students may be afforded the central core of knowledge enjoyed by well-educated citizenry.

Some of the degree programs in Arts and Sciences prepare majors directly for professional employment; others prepare them for admission to professional and graduate schools; others, combined with an appropriate minor from Arts and Sciences or one of the professional schools, provide a valuable basis for a career.

The College of Arts and Sciences offers the Bachelor of Arts, Bachelor of Science, Bachelor of Social Work, Master of Arts, Master of Liberal Arts, Master of Science, Master of Social Work, and Specialist in School Psychology degrees with the following majors:

**Bachelor of Arts Degree:** English, environmental studies, general communication disorders, history, mass communication, mathematics, modern languages, philosophy and religion, political science, psychology and sociology.

**Bachelor of Science Degree:** biology, chemistry, environmental sciences, human nutrition, integrated marketing communication, mathematics, and science communication.

**Bachelor of Social Work Degree:** social work.

**Master of Arts Degree:** English, history, and Spanish.

**Master of Liberal Arts Degree:** liberal arts.

**Master of Science Degree:** biology, human nutrition, and school psychology.

**Master of Social Work**

**Specialist in School Psychology Degree:** school psychology.

Minors for undergraduate degrees are offered through the College of Arts and Sciences in African-American studies, anthropology, applied physics, biology, chemistry, English, environmental studies, French, general science, geography, geology, German, gerontology, history, human nutrition, international area studies, mathematics, philosophy, philosophy and religion, political science, psychology, religion, secondary education, social sciences, social welfare, sociology, Spanish, women's studies, and writing. See the section on Minors for requirements.

Winthrop's undergraduate program in human nutrition is accredited by the Commission on Accreditation for Dietetics Education (CADE) of The American Dietetic Association. The Bachelor of Social Work program is accredited by the Council on Social Work Education. The Department of Mass Communication is accredited by the Accrediting Council of Education in Journalism and Mass Communications.

## **Pre-major Advising Center--University College**

Students who do not declare majors are assigned advisers in the Pre-major Advising Center. Advising is provided by faculty members representing a variety of academic departments who help resolve issues that pre-majors tend to encounter. The Pre-major Advising Center is administered by University College and is located in 106 Kinard.

## **Pre-College Credit and Dual Credit**

Qualified high school students may enroll for university courses at Winthrop during the regular academic year or summer session. To qualify, students must be recommended by their high school counselors or principals. Credit earned can count towards a high school diploma, for college credit at Winthrop or both. However, this dual credit option is limited to secondary schools with which Winthrop has dual credit agreements.

## **College of Arts and Sciences Requirements**

**Foreign Language Requirements:** A candidate for a BA or BS degree in the College of Arts and Sciences must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized proficiency examination or by passing a foreign language course numbered 102 or any foreign language course with 102 as a prerequisite. A maximum of three semester hours of foreign language courses may be applied to Logic/Language/Semiotics area of the Winthrop University General Education requirements. **Non-native speakers of English can petition the College of Arts and Sciences Curriculum Committee for possible exemption from the foreign language requirement. Native speakers of a foreign language will not receive CLEP credit for the 101, 102, 201, or 202 courses in that language. Students who are fluent in a language other than their native language or English may receive CLEP credit in that language, but may not enroll in 101, 102, 201, or 202 courses in the second language in which they are fluent.**

**Grade Point Average (GPA) Requirement:** A minimum grade-point average of 2.0 cumulative is required for courses taken at Winthrop, as well as for courses counted toward the major program. All students pursuing degrees that require a minor must achieve a minimum cumulative GPA average of at least 2.0 in courses counted toward the minor.

**B.A. Degree Requirements:** All B.A. degree programs require that students complete a minor. Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. A student may elect to apply up to 6 semester hours in the same subject designator toward general electives, general education distribution requirements, or a minor with the exception of the social sciences minor, unless limited by the major program.

**B.S. and B.S.W Degree Requirements:** Although not required, students enrolled in B.S. and B.S.W. degree programs may complete a minor. In such cases, students may use courses required in the major to also satisfy minor requirements. Students pursuing the B.S. degree in Integrated Marketing Communication can not minor in business or mass communication.

**Teacher Certification:** Certification is available in the following areas: biology, English, French, mathematics, social studies (which includes anthropology, economics, geography, history, political science and sociology) and Spanish. Students must meet all requirements for admission to and completion of the Teacher Education Program and its core curriculum. All phase-in information as explained in the College of Education section of this catalog will be applicable.

## BIOLOGY

### Faculty

#### Professors

Janice B. Chism  
Dwight D. Dimaculangan  
James W. Johnston, *Chair*  
Paula L. Mitchell  
William Rogers

#### Associate Professors

Susan Marks  
Peter C. Phillips  
Julian Smith III

#### Assistant Professors

Lee Anne Cope  
Laura Glasscock  
John M. Schmidt  
Kristi Westover

#### Lecturers

Jack Bagwell  
Jessica Boulware  
Nancy Chappell  
Peter Cumbie  
Deborah R. Curry  
Lockett V. Davis, *Professor Emeritus*  
Steven E. Fields  
Martha Love  
Janie Manning  
Charles Neilson  
Bill Olson  
Lynn Snyder  
Pravda Stoeva-Popova  
Jen Wearly  
Silvia Wozniak  
Almaz Yilma

#### Instructor

Cassie Bell

### Bachelor of Science in Biology

The biology major is frequently chosen by students with career interests related to medicine, environmental science, biological research and teaching, and secondary education in the sciences. Qualified Winthrop students in biology are accepted for postgraduate study in many fields, including medicine, dentistry, veterinary medicine, physical therapy, physiology, microbiology, ecology, environmental science, botany, zoology, and medical technology.

Students majoring in biology should take BIOL 203, 204 and 205 or 206, CHEM 105-106 and 107-108 and a MATH elective in the freshman year. Students are required to take at least one 500-level course in Biology.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101, CRTW 201	Composition; Crit Reading, Thinking, Writing	6
<b>Quantitative Skills</b>	Met in major requirements	0
<b>Logic/Language/Semiotics</b>		
MATH	Met by major requirements	0
Foreign Language		3-4†
<b>Oral Communication</b>	Met in major by BIOL 480	0
<b>Technology</b>	Met by major requirements	0
<b>Skills for Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37	3
<b>Historical Perspectives</b>	See approved list, p. 37	3

COLLEGE OF ARTS & SCIENCES--BIOLOGY

**Developing Critical Skills and Applying them to Disciplines**

<b>Natural Science</b>	Met by major requirements	0
<b>Social Science</b>	See approved list, p. 37; must include 2 designators	6-9*
<b>Humanities and Arts</b>	See approved list, p. 38; must include 2 designators	6-9*
*Must take 15 hours from these two categories.		
<b>Intensive Writing</b>	Met by major requirements	0
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other req	0-3
<b>Subtotal</b>		<b>34-38</b>
<b>Requirements in Major</b>		<b>67</b>
BIOL 203, 204, 205, 206, 300, 480, 491, 492		19
<b>BIOL electives – select one course from each of the following areas:</b>		<b>23</b>
<b>Ecology/Evolution</b>		
BIOL 323, 403, 513, 515, and 527		
<b>Organismal Biology</b>		
BIOL 303, 304, 310, 505, 508, 510, 511, 518, 520, and 525		
<b>Physiology/Integrative</b>		
BIOL 307, 308, 317, 322, 507, 519, and 524		
<b>Cell/Molecular</b>		
BIOL 315, 321, 517, 521, 522, 526, 555, 556, and 560		
<b>Select additional courses to total 42 hours in BIOL from:</b>		
BIOL 318, 340, A, B, or C, 440, 450, 461, 463, 471, 530, and 540		
(Students must select at least one 500-level BIOL course)		
CHEM 105, 106, 107, and 108	General Chemistry I & II	8
MATH (excl 291 and 292) or CTQR 150		6
Mathematics and Science Electives		11**
<b>Foreign Language Requirement</b>		<b>0- 4</b>
<b>General Electives</b>		<b>15-23</b>
<b>Total</b>		<b>124</b>

†Students completing the required program for the BS degree in Biology must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

\*\*11 hours mathematics and science electives must be chosen from: MATH (except 291 & 292 and any course used to satisfy the Quantitative Reasoning Area); CHEM (except 101, 340A, B, C, 461, 462, or 463); PHYS (except 101/102); GEOL; AND QMTH 205, 206 (if MATH 141 not selected).

The student must attain a cumulative grade-point average of 2.00 or better in courses taken at Winthrop and included in the 67 semester hours of the required program. The student must complete a minimum of 12 semester hours of BIOL courses in residence at Winthrop University. Within the 124 semester hours required for this degree, the student must include a minimum of 40 semester hours in courses numbered above 299. No more than 3 semester hours of credit may be awarded toward a degree in Biology for a student completing any combination of BIOL 461, 463 and 340 A, B, C.

**Bachelor of Science in Biology - Certification as Secondary School Teacher**

Program Coordinator: Cassie Bell

Students desiring certification as teachers of biology should consult with the department's certification adviser and Student Academic Services in the Richard W. Riley College of Education for specific requirements for admission to the Teacher Education Program. See section on College of Education Admission Requirements, page 96.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101, CRTW 201	Composition; Crit Reading, Thinking, Writing	6
<b>Quantitative Skills</b>	Met in major requirements	0
<b>Logic/Language/Semiotics</b>		
MATH	Met by major requirements	0
Foreign Language		3-4†
<b>Oral Communication</b>	Met in major by BIOL 480	0
<b>Technology</b>	Met by major requirements	0
<b>Skills for Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global/Multicultural Perspectives</b>	See approved lists, p. 37.	3

<b>Historical Perspectives</b>	See approved list, p. 37.	3
<b>Developing Critical Skills and Applying them to Disciplines</b>		
<b>Natural Science</b>	Met by major requirements	0
<b>Social Science</b>	See approved list, p. 37; must include 2 designators	6-9*
<b>Humanities and Arts</b>	See approved list, p. 38; must include 2 designators	6-9*
*Must take 15 hours from these two categories.		
<b>Intensive Writing</b>	Met by major requirements	0
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other req	0-3
<b>Subtotal</b>		<b>34-38</b>
<b>Requirements in Major</b>		
		<b>71</b>
BIOL 203, 204, 205, 206, 300, 307, 308, 310, 315, 317, 318, 480, 491, 492, 513, and 403 or 515		46
CHEM 105, 106, 107, and 108	General Chemistry I & II	8
MATH (excluding 291 and 292) or CTQR 150		6
PHYS 201, 202 and GEOL	General Physics I & II	11
<b>Professional Education Sequence</b>		
		<b>33</b>
EDUC 110, 210, 250, 275, 310, 390, 475, 490		29**
SCIE 391, 392		4
<b>Foreign Language Requirement</b>		
		<b>0- 4</b>
<b>General Electives</b>		
		<b>0</b>
<b>Total</b>		<b>138-146</b>

†Students completing the required program for the BS degree in Biology must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

\*\*A grade of C or better is required in EDUC 110, 210, 250, 275, 310, and 390.

In addition to the requirements for their major, students must meet requirements for the Teacher Education Program, which include the requirements for Admission to Teacher Education, Entry to the Professional Stage, and Program Completion. For information on these requirements, consult the Student Academic Services in the College of Education. **The PRAXIS II Series is required prior to graduation:** 1) Subject Assessment/Specialty Area Tests and 2) Principles of Learning and Teaching (PLT) Test.

The student must attain a cumulative grade-point average of 2.75 or better in courses taken at Winthrop and a minimum of a 2.0 in the 71 hours of the required program. The student must complete a minimum of 12 semester hours of BIOL courses in residence at Winthrop University. Within the 137-146 hours required for the degree, the student must include a minimum of 40 hours in courses numbered above 299. No more than 3 semester hours of credit may be awarded toward a degree in Biology for a student completing any combination of BIOL 461, 463, and 340 A, B, and C.

### Certification as a Medical Technologist - Bachelor of Science in Biology

Program Director: Dr. Lee Anne Cope

Students desiring national certification as a Medical Technologist should consult with the department's Med-Tech advisor for specific details about this program. Qualified graduates must be accepted by a School of Medical Technology for a year (12 months) of hospital training before being certified.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101, CRTW 201	Composition; Crit Reading, Thinking, Writing	6
<b>Quantitative Skills</b>		
	Met in major requirements	0
<b>Logic/Language/Semiotics</b>		
MATH	Met by major requirements	0
Foreign Language		3-4†
<b>Oral Communication</b>		
	Met in major by BIOL 480	0
<b>Technology</b>		
	Met by major requirements	0
<b>Skills for Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>		
	See approved list, p. 37	3
<b>Historical Perspectives</b>		
	See approved list, p. 37	3
<b>Developing Critical Skills and Applying them to Disciplines</b>		
<b>Natural Science</b>		
	Met by major requirements	0
<b>Social Science</b>		
	See approved list, p. 37; must include 2 designators	6-9*

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<b>Humanities and Arts</b>	See approved list, p. 38; must include 2 designators	6-9*
*Must take 15 hours from these two categories.		
<b>Intensive Writing</b>	Met by major requirements	0
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other req	0-3
<b>Subtotal</b>		<b>34-38</b>
<b>Requirements in Major</b>		<b>66-68</b>
BIOL 203, 204, 205, 206, 300, 480, 491, 492		19
<b>BIOL electives - select one course from each of the following areas:</b>		14-15
<b>Ecology/Evolution</b>		
BIOL 403, 513, 515, and 527		
<b>Organismal Biology</b>		
BIOL 310	Microbiology	
<b>Physiology/Integrative</b>		
BIOL 317	Genetics	
<b>Cell/Molecular</b>		
BIOL 522	Immunology	
<b>Select additional courses to total 42 hours in BIOL from the following list:</b>		8-9
BIOL 315, 318, 440, 517, 525, 526, 530, 555. or 556		
(Students must select at least one 500-level BIOL course)		
CHEM 105, 106, 107, and 108	General Chemistry I & II	8
CHEM 301, 302, 303, 304	Organic Chemistry I & II	8
MATH (excl 291 and 292) or CTQR 150		6
Mathematics, CTQR 150, and Science Electives: Select additional courses from the following list: CHEM 313, 314, 523, 524, and 525; CSCI 101 and 101A, B, and C; MATH 141 (or QMTH 205 and 206); CTQR 150.		3
Students are advised (optional) to complete CHEM 313 and 314.		
<b>Foreign Language Requirement</b>		<b>0- 4</b>
<b>General Electives</b>		<b>14-24</b>
<b>Total</b>		<b>124</b>

†Students completing the required program for the BS degree in Biology must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

The student must attain a cumulative grade-point average of 2.0 or better in courses taken at Winthrop and included in the 67 semester hours of the required program. The student must complete a minimum of 12 semester hours of BIOL courses in residence at Winthrop University. Within the 124 semester hours required for this degree, the student must include a minimum of 40 semester hours in courses numbered above 299. No more than 3 semester hours of credit may be awarded toward a degree in Biology for a student completing any combination of BIOL 461, 463, and 340A, B, C.

Although Winthrop University is formally affiliated with the schools of medical technology of Carolinas Medical Center in Charlotte, NC and McLeod Regional Medical Center in Florence, SC, students may apply to any NAACLS accredited hospital program in the US. Although specific admission requirements vary among accredited hospitals, students are normally required to have a cumulative grade-point average of at least 3.0 for acceptance into the hospital program.

**CHEMISTRY, PHYSICS, AND GEOLOGY****Faculty****Professors**

Marsha Bollinger  
Lennart Hans Kullberg  
Ponn Maheswaranathan  
Patrick M. Owens, *Chair*  
Mesgun Sebhatu

**Associate Professors**

Irene Boland  
Clifton P. Calloway

**Assistant Professors**

Gwen M. Daley  
Jay Hanna  
Aaron M. Hartel  
Robin K. Lammi  
Chasta Parker  
Takita F. Sumter

**Instructors**

Roy A. Jameson  
Kathie Snyder

**Lecturers**

Tristram Bethea  
Flora Brooks  
Tom Lipinski  
William A. Quarles  
David Whitley

**Bachelor of Science in Chemistry**

Students major in chemistry to pursue industrial or graduate opportunities in medicine, environmental science, computational molecular modeling, forensics, plastics, chemistry, textiles, health sciences, materials science, energy production, biotechnology, chemical engineering, pharmaceutical sciences, ceramics, environmental engineering, or toxicology. Chemists represent the largest group of industrial scientists in the United States; approximately 50% of all research and development positions in this country are filled by professionals with chemistry or chemical engineering backgrounds.

Students majoring in chemistry can select one of six programs of study to tailor their curricula to meet their long-term professional objectives. Four programs of study focus on **chemistry (ACS Approved)**, **biochemistry (ACS approved)**, **environmental chemistry**, and **forensic chemistry**. A chemistry-engineering program of study is designed for students interested in obtaining engineering and science degrees. The **multidisciplinary chemistry program of study** is designed for maximum flexibility to meet a broad array of students interests or needs.

**Premedical Program with a Bachelor of Science in Chemistry**

Students who wish to prepare for application to medical school should acquire a broad foundation in the natural sciences, mathematics, humanities, and the social sciences. Chemistry is a popular major for such students since it allows them to complete the premed requirements without taking a large number of courses outside the major. In addition, the percentage of chemistry majors applying and being accepted to medical school is higher than observed for most other majors. Medical schools generally require two semesters of each of the following courses:

Inorganic Chemistry, Organic Chemistry, General Biology, Physics, Mathematics, and English Composition and Literature. (Biochemistry, anatomy and physiology, genetics, and microbiology are strongly recommended.) All of the courses listed above can be used to fulfill requirements necessary for a major in chemistry.

**Bachelor of Science in Chemistry**

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>	Met in major requirement by MATH 201	0
<b>Oral Communication</b>	See approved list, p. 37; may be met through other req	0-3
<b>Logic/Language/ Semiotics</b>	Met in major requirement by MATH 202	0
Foreign Language Requirement	Second semester proficiency required	3-4†
<b>Technology</b>	See approved list, p. 37; may be met by another req	0-3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNEP 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37	3
<b>Historical Perspectives</b>	See approved list, p. 37	3

COLLEGE OF ARTS & SCIENCES--CHEMISTRY

**Developing Critical Skills Applying them to Disciplines**

<b>Natural Science</b>	Met by major requirements	0
<b>Social Science</b>	See approved list, p. 37. Must include 2 designators*	6-9
<b>Humanities and Arts</b>	See approved list, p. 38. Must include 2 designators*	6-9
*Must have 15 hours within these two categories.		
<b>Intensive Writing</b>	See approved list, p. 38	3
<b>Constitution Requirement</b>	May be satisfied through other requirements	0-3
<b>Subtotal</b>		<b>37-47</b>

**Requirements in Major:** Complete Core and one of five Programs of Study (ACS-Approved Chemistry, ACS-Approved Biochemistry, Forensic Chemistry, Multidisciplinary Chemistry, or Environmental Chemistry)

**Required Core Program 35**

MATH 201-202	Calculus I & II	6
CHEM 105-108	General Chemistry I & II	8
CHEM 301-304	Organic Chemistry I & II	8
CHEM 312	Introductory Chemometrics	1
CHEM 313-314	Quantitative Analysis	4
CHEM 407-410	Physical Chemistry I & II	8
CHEM 491-494	Department Seminar	0

**Choose one of five programs of study listed below:**

**American Chemical Society (ACS) Approved Chemistry Program of Study 36**

*(Students completing this program of study will be Winthrop-certified ACS chemistry graduates.)*

BIOL 203-204	Principles of Biology	4
PHYS 211-212	Physics with Calculus I & II	8
CHEM 305	Chemical Hygiene and Safety	1
CHEM 330, 332	Introductory Inorganic Chemistry	4
CHEM 502-503	Instrumental Analysis	4
CHEM 523, 525	Biochemistry I	4
CHEM 526 or CHEM 570	Adv Investigative Biochemistry, Chemical Synth	2
CHEM 530	Inorganic Chemistry	3
CHEM 551-552	Individual Research	6

**American Chemical Society (ACS) Approved Biochemistry Program of Study 37-38**

*(Students completing this program of study will be Winthrop-certified ACS biochemistry graduates.)*

BIOL 203-204	Principles of Biology	4
PHYS 211-212	Physics with Calculus I & II	8
CHEM 305	Chemical Hygiene and Safety	1
CHEM 330, 332	Introductory Inorganic Chemistry	4
CHEM 523-525	Biochemistry I, II, & Lab Techniques	7
CHEM 551, 552	Research I & II	6
BIOL 315	Cell Biology	4
BIOL 310 or 317	Microbiology, Genetics	3-4

**Environmental Chemistry Program of Study 44**

BIOL 203-204	Principles of Biology	4
PHYS 211-212	Physics with Calculus I & II	8
CHEM 305	Chemical Hygiene and Safety	1
CHEM 330, 332	Introductory Inorganic Chemistry	4
CHEM 502-503	Instrumental Analysis	4
CHEM 517	Advanced Environmental Chemistry	4
CHEM 523, 525	Biochemistry I	4
CHEM 527	Biochemical Toxicology	3
CHEM 551-552	Individual Research	6
GEOL 335	Fundamentals of Geochemistry	3
GEOL 340	Hydrogeology	3

**Forensic Chemistry Program of Study 51**

BIOL 203-204	Principles of Biology	4
BIOL 317	Genetics	3
MATH 141	Statistics	3
PHYS 211-212	Physics with Calculus I & II	8
CHEM 330	Introductory Inorganic Chemistry	4

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CHEM 495-496	Forensic Chemistry Seminar	0
CHEM 502-503	Instrumental Analysis	4
CHEM 505-506	Forensic Analytical Chemistry	4
CHEM 523, 525	Biochemistry I	4
CHEM 551-552	Research I & II	6
CHEM 575	Forensic Chemistry Internship	6
PHIL 320	Professional Ethics	3
SPCH 201	Public Speaking	3
<b>Total</b>		<b>125-134</b>
<b>Multidisciplinary Chemistry Program of Study</b>		<b>34</b>
CHEM (>299)	Chemistry electives	8
PHYS 211-212 or PHYS 201-202	Physics with Calculus I & II General Physics I & II	8
Approved math or science electives (15 hours >299, BIOL, CHEM, CSCI, QMTH, PHYS, MATH)		18
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>General Electives</b>		<b>4-19</b>
<b>Total</b>		<b>124</b>

**Chemistry-Engineering Dual Degree Program**

*(Students must simultaneously complete engineering degree at Clemson University to be eligible for this Winthrop degree.)*

MATH 201, 202	Calculus I & II	6
MATH 301, 302	Calculus III & IV	6
MATH 305	Differential Equations	3
PHYS 211, 212	Physics with Calculus I & II	8
CHEM 105-108	General Chemistry I & II	8
CHEM 301, 303	Organic Chemistry I	4
CHEM 312	Introductory Chemometrics	1
CHEM 313-314	Quantitative Analysis	4
CHEM 330, 332	Introductory Inorganic Chemistry	4
CHEM 407, 409	Physical Chemistry I	4
CHEM 491, 492	Department Seminar	0
CHEM (above 299)	Approved Chemistry Course	3
Approved math, science, or engineering courses (15 hours >299, may be taken at Winthrop or at the Engineering school)		18
<b>Subtotal</b>		<b>69</b>
<b>(51 hours required at Winthrop)</b>		
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>General Electives</b>		<b>4-18</b>
<b>Total</b>		<b>124</b>

† Students completing the required program in Chemistry must demonstrate proficiency in a foreign language at or above the second semester college-level. This requirement may be met by a satisfactory score or a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

The student must attain a cumulative grade-point average of 2.0 or better in courses taken at Winthrop and included in the 69-79 semester hours of the required program. A cumulative grade-point average of 2.0 or better is also required in CHEM courses. The student must complete a minimum of 12 semester hours of CHEM courses in residence at Winthrop University. Within the 124 semester hours required for this degree, the student must include a minimum of 40 hours in courses numbered above 299.



COLLEGE OF ARTS & SCIENCES--ENGLISH  
**ENGLISH**

**Faculty**

**Professors**

John Bird  
 Susan B. Ludvigson  
 William F. Naufftus  
 David L. Rankin, *Professor Emeritus*  
 Jane B. Smith  
 Margaret Tebo-Messina

**Assistant Professors**

Siobhan Brownson  
 Jack DeRochi  
 Litasha Dennis  
 Cindy Furr  
 Amy Gerald  
 Kelly Richardson

**Lecturers**

Leslie Calandra  
 Judy Corbett  
 Casey Cothran  
 Andy Crissinger  
 Jamie Ferguson  
 Amanda Hiner  
 Jennifer Jewett  
 Ann Jordan  
 Jeannine Jordan  
 Cynthia Macri  
 Tracey Perez

**Associate Professors**

Debra C. Boyd  
 Max L. Childers  
 J. Scott Ely  
 Matthew A. Fike  
 Gloria G. Jones, *Chair*  
 Josephine A. Koster  
 Marquerite Quintelli-Neary

**Instructors**

Leslie W. Bickford  
 Clara Kulmacz  
 Mary Martin  
 Norma McDuffie  
 Marilyn Montgomery  
 Evelyne Weeks

**Bachelor of Arts in English, Language and Literature Track**

The Bachelor of Arts in English with a literature and language concentration is designed for those students who want to focus on world, British, and American literature, in preparation for advanced study of literature as well as other professional careers.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or MATH 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/ Semiotics</b>		
Foreign Language		3†
CSCI, PHIL 220 or 225; SPCH 201; MATH; QMTH; ARTS 281 or VCOM 261		3
<b>Oral Communication</b>	May be met by another req; see approved list, p. 37	0-3
<b>Technology</b>	May be met by major; see approved list, p. 37	0-3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	Met by major requirements	0
<b>Historical Perspectives</b>	Met by major requirements	0
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b>	From two categories and one must be a lab science	7
<b>Social Science</b>	See approved list, p. 37. Must include 2 designators	6
<b>Humanities and Arts</b>	6 hours met in major; remaining 3 from another designator may be met by HIST requirement*	3
<b>Intensive Writing</b>	Met in major	0
<b>Constitution Requirement</b>	See approved list, p. 38; may be met through other req	0-3
<b>Subtotal</b>		<b>35-44</b>
<b>Requirements in Major</b>		
ENGL 203	Survey of British Literature	3
ENGL 207 or 208	Survey of World Literature	3
ENGL 211	Survey of American Literature	3
ENGL 300	Approaches to Literature	3
ENGL 305	Shakespeare	3
ENGL 491	Departmental Seminar	0
ENGL 303 or 507	Grammar; Development of Modern English	3
ENGL 312 or 323 or 324 or 504 or 515 or 529*		3
ENGL 319 or 501 or 503 or 511 or 512 or 513 or 514 or 520 or 521 or 525 or 527*		3
WRIT 300 or 351 or 500 or 501 or 510		3

Electives from ENGL above 299	9
HIST 308, 310, 313, 314, 315, 343, 344, 346, 347, 507, 509, 525, 540, or 542	6
<b>Foreign Language Requirement</b>	<b>0-8</b>
<b>Minor</b>	<b>15-24</b>
<b>General Electives</b>	<b>6-32</b>
<b>Total</b>	<b>124</b>

†Students completing the required program for the BA degree in English must demonstrate proficiency in a foreign language at or above the third semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 201 or any course with 201 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

\*Students must take at least one ENGL course numbered above 499.

The student must attain a cumulative grade-point average of 2.00 or better in courses taken at Winthrop and included in the 42-51 semester hours of the required program. The student must complete a minimum of 12 semester hours of ENGL courses in residence at Winthrop University. In addition to the 42-51 semester hours of the required program, the student must select and complete a minor, attaining no less than a 2.0 GPA in the minor. Within the 124 semester hours required for this degree, the student must include a minimum of 40 hours in courses numbered above 299.

### Bachelor of Arts in English Certification as Secondary School Teacher

Students desiring Certification as teachers of English should consult with the department's teacher certification advisor and the College of Education section of the catalog for specific requirements for admission to the Teacher Education Program.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking Skills</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or MATH 201 or any MATH course with MATH 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3†
CSCI; PHIL 220, 225; SPCH 201; MATH; QMTH; ARTS 281 or VCOM 261		3
<b>Oral Communication</b>	Met by major	0
<b>Technology</b>	Met by major	0
<b>Skills for a Common Experience and Thinking across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	Met by major	0
<b>Historical Perspectives</b>	Met by major	0
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b> (must take a total of 7 semester hours in Natural Sciences courses)		
Laboratory science in life sciences		3-4
Laboratory science in earth or physical sciences		3-4
<b>Social Science</b>	See approved list, p. 37; must include 2 designators	6
<b>Humanities and Arts</b>	6 hours met in the major; select at least 1 course from a different subject area.	3
<b>Intensive Writing</b>	Met by major	0
<b>Constitution Requirement</b>	See approved list, p. 38	0-3
<b>Subtotal</b>		<b>35-38</b>
<b>Requirements in Major</b>		<b>36</b>
ENGL 203, 207 or 208, 211, 305		12
ENGL 300*, 303*, 507*		9
ENGL 491	Departmental Seminar	0
ENGE 519	Adolescent Literature	3
WRIT 350*	Intro to Comp Theory & Pedagogy	3
Electives from ENGL above 299, WRIT 300, 307, 316, or 500 (only 3 hours may be from WRIT 307 or WRIT 316)		9

COLLEGE OF ARTS & SCIENCES--ENGLISH

<b>Professional Education Sequence</b>	<b>33</b>
EDUC 110*, 210*, 250*, 275*, 310*~, 390*~, 475*~, 490*~	29
ENGE 391*~, 392*~	4
Princ of Teaching Engl; Field Exp in Teaching Engl	
<b>Foreign Language requirement</b>	<b>0-8</b>
<b>General Electives</b>	<b>9-20</b>
<b>Total</b>	<b>124</b>

\*A grade of C or better must be earned.

~Restricted to students admitted to the Teacher Education Program.

†Students completing the required program for the BA degree in English must demonstrate proficiency in a foreign language at or above the third semester college level. This requirement may be met by a satisfactory score on a recognized proficiency examination or by passing any foreign language course numbered 201 or any course with 201 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

In addition to the requirements for their major, students must meet requirements for the Teacher Education Program, which include the requirements for Admission to Teacher Education, Entry to the Professional Stage, and Program Completion. For information on these requirements, consult the Office of Student Academic Services in the Richard W. Riley College of Education.

**The PRAXIS II Series is required prior to graduation:** 1) Subject Assessment/Specialty Area Tests and 2) Principles of Learning and Teaching (PLT) Test.

Teacher education students must select one course from the Multicultural Perspectives list identified by the Richard W. Riley College of Education.

The student must attain a cumulative grade-point average of 2.75 or better in courses taken at Winthrop and a GPA of 2.0 or better in the 36 hours of the required program. The student must complete a minimum of 12 semester hours in the major in residence at Winthrop University. Within the 124 semester hours required for the BA degree, the student must also include a minimum of 40 semester hours in courses numbered above 299. No more than three hours of Cooperative Education Experience can count toward the major.

### Bachelor of Arts in English, Writing Track

The Bachelor of Arts in English with a writing concentration is designed for those students who wish to combine their love of reading with a close study of the elements of writing in preparation for a future in which writing will play a central role.

General Education Courses	Semester Hours
ACAD 101	1
Principles of the Learning Academy	
<b>Critical Skills</b>	
<b>Writing and Critical Thinking</b>	
WRIT 101	3
Composition	
CRTW 201	3
Critical Reading, Thinking, & Writing	
<b>Quantitative Skills</b>	
CTQR 150 or MATH 105 or MATH 201 or a MATH course with 201 as a prerequisite	3
<b>Logic/Language/Semiotics</b>	
Foreign Language	3†
CSCI; PHIL 220 or 225; SPCH 201; MATH; QMTH; ARTS 281 or VCOM 261	3
<b>Oral Communication</b>	0-3
May be met through other requirement*	
<b>Technology</b>	0-3
May be met through other requirement**	
<b>Skills for a Common Experience and Thinking Across Disciplines</b>	
GNEP 102	3
The Human Experience: Who Am I?	
<b>Global Perspectives</b>	0
Met by major requirements	
<b>Historical Perspectives</b>	0-3
May be met by major requirements	
<b>Developing Critical Skills Applying them to Disciplines</b>	
<b>Natural Science</b>	7
From two categories and one must be a lab science	
<b>Social Science</b>	6
See approved list, p. 37. Must include 2 designators	
<b>Humanities and Arts</b>	3
6 met in major, remaining 3 from other designators	
<b>Intensive Writing</b>	0
Met in major	
<b>Constitution Requirement</b>	0-3
See approved list, p. 38; may be met by another req	
<b>Subtotal</b>	<b>35-47</b>
<b>Requirements in Major</b>	
The English Core:	<b>15</b>
ENGL 203	3
Survey of British Literature	
ENGL 207 or 208	3
Survey of World Literature	
ENGL 211	3
Survey of American Literature	

ENGL 300	Approaches to Literature	3
ENGL 305	Shakespeare	3
ENGL 491	Departmental Seminar	0
<b>The Elements of Writing: Rhetoric, Language, and Audience</b>		<b>12</b>
Select from WRIT 300, 350, 351, 465, 500, 501, 510; ENGL 303, 507; IMCO 105; MCOM 302		
<b>Select one of the following options:</b>		<b>12</b>
<b>Creative Writing</b>		9-12
Select <b>at least two</b> from WRIT 307, 316, 507, 516, 530; <b>and no more than two from</b> ENGL 317, 325, 501, 504, CSCI 101 and 3 of CSCI 101A, B, C, or P; or if focused on an appropriate topic, ENGL 310, 311, 320, or 321		
ENGL/WRIT 431, 432, or 433	Internship	0-3
<b>Writing for Business and Technology</b>		9-12
Select from WRIT 366, 566, VCOM 261, ARTS 281, 305, 311, 371, BADM 180, 411, CSCI 101 and 3 of CSCI 101A, B, C, or P; MCOM 241, 340, 341, 370, 471, MGMT 355, or MKTG 380.		
ENGL/WRIT 431, 432, or 433	Internship	0-3
<b>Foreign Language Requirement</b>		<b>0-8</b>
<b>Minor</b>		<b>15-24</b>
<b>General Electives</b>		<b>6-35</b>
<b>Total</b>		<b>124</b>

*Students majoring in English with a writing concentration may not minor in Writing.*

†Students completing the required program for the BA degree in English must demonstrate proficiency in a foreign language at or above the third semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 201 or any course with 201 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

\*Can be met within the major if students take WRIT 465 or WRIT 566.

\*\*Can be met within the major if students take WRIT 501 or CSCI 101.

The student must attain a cumulative grade-point average of 2.0 or better in courses taken at Winthrop and included in the 39 semester hours of the required program. The student must complete a minimum of 12 semester hours of ENGL courses in residence at Winthrop University. In addition to the 39 semester hours of the required program, the student must select and complete a minor, attaining no less than a 2.0 GPA in the minor. Within the 124 semester hours required for this degree, the student must include a minimum of 40 hours in courses numbered above 299. No more than three hours of Cooperative Education Experience or Academic Internship or a combination of the two can count toward the major in English.

### Bachelor of Science in Science Communication

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or MATH 201 or any MATH course with MATH 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
CSCI; PHIL 220 or 225; SPCH 201; MATH; QMTH; ARTS 281 or VCOM 261		3
<b>Oral Communication</b>		0-3
Technology		0
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNET 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>		3
<b>Historical Perspectives</b>		3
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b>		0-7
<b>Social Sciences</b>		3 hours met in major; remaining 3-6 from other designators
<b>Humanities and Arts</b>		6 hrs met in major
		0-3**
**A total of 9 hours must be taken from these two areas.		
<b>Intensive Writing</b>		0
<b>Constitution Requirement</b>		0-3

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<b>Subtotal</b>		<b>34-48</b>
<b>Requirements in Major</b>		<b>68-70</b>
<b>Writing Core:</b>		
WRIT 300, 351, 566	Rhet Theory; Adv Non-Fict; Tech/Sci Writing	9
WRIT 461, 462	Science Communication Internship	6
ENGL 380	Literature of Science	3
ENGL or WRIT above 299***		6
(***)WRIT 465 or WRIT 566 required if BIOL 300 not taken)		
ENGL 492	Seminar in Science Communication	0
MCOM 241, 340, and either 333 or 343	Media Writ; Pub Prod; News Ed; Feature Writ	9
<b>Technology:</b>		
ARTS 305 or 311	Intro to Photography; Photo Communication	3
CSCI 110 or 151	Intro to Comp & Programming; Overview of CSCI	3
BADM 411	Info Tech in Business Admin	3
<b>Science Methods/Statistics:</b>		11-12
PSYC 101, 301, and 302 (WRIT 465 or WRIT 566 required with this option)		
<b>OR</b>		
BIOL 203, 204, 205, or 206; and BIOL 300 (oral intensive elective required with this option)		
<b>Additional Science Courses</b>		15-16
Choose from areas below and at least 8 hours from one designator:		
Life Sciences: BIOL above 199; ANTH 202, 350; NUTR 201; SCIE 202, 301;		
Physical Sciences: CHEM, PHYS, GEOL, SCIE 201B, 201C		
<b>Foreign Language Requirement</b>		0-4
<b>General Electives</b>		2-22
<b>Total</b>		<b>124</b>

†Students completing the required program for the BS in Science Communication must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

\*Some students may meet Oral Communication in the WRIT core.

The student must attain a cumulative grade-point average of 2.0 or better in courses taken at Winthrop and included in the 61-66 semester hours of the required program. The student must complete a minimum of 12 semester hours of ENGL and/or WRIT courses in residence at Winthrop University. Within the 124 semester hours required for the BS degree, the student must include a minimum of 40 hours in courses numbered above 299.

## ENVIRONMENTAL SCIENCES/STUDIES

Program Coordinator, Dr. Marsha Bollinger, Professor

### Bachelor of Arts in Environmental Studies

The BA degree in Environmental Studies will provide students with a broad introduction to the scientific, social, political, cultural, economic, and policy aspects of environmental issues. BA students will minor in a discipline linked to their major and will be prepared to pursue careers with environmental groups, policy groups, and consulting firms and to continue studies in graduate programs in environmental studies and law.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101, CRTW 201	Comp; Critical Reading, Thinking, & Writing	6
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or MATH 201 or a MATH requiring MATH 201 as prerequisite		3
<b>Logic/Language/Semiotics</b>		
MATH 141	Finite Probability & Statistics	3
Foreign Language		3-4†
<b>Oral Communication</b>	See approved list, p. 37	0-3
<b>Technology</b>		
CSCI 101 & 3 of 101A, B, C, or P	Intro to Comp & Info Processing	3
<b>Skills for Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>		
GEOG 101 or 201	Human Geography or Geog of World Regions	3

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<b>Historical Perspectives</b>	May be met in major; see approved list, p. 37	3
<b>Developing Critical Skills and Applying them to Disciplines</b>		
<b>Natural Science</b>	Met in major by BIOL 203/204 and CHEM 101	0
<b>Social Science</b>		
ECON 103 or 215	May be met in major; see approved list, p. 37	3-9
<b>Humanities and Arts</b>	May be met in major; see approved list, p. 38	3-9
<b>Intensive Writing</b>	Met in major by ENV5 520	0
<b>Constitution Requirement</b>	May be met in major; see approved list, p. 38	0-3
<b>Subtotal</b>		<b>31-53</b>
<b>Requirements in the Major</b>		<b>31-32</b>
BIOL 203/204	Principles of Biology/Lab	4
ENV5 101, 520	Intro to Environ Issues, Seminar in Environ	6
CHEM 101	Applying Chem to Society	3
<b>Social Science/Humanities Electives</b> (select five courses from the following)		15
ANTH 540, ECON 343, ENV5 510, GEOG 305, HIST 530, PHIL 340, PLSC 325, PSYC 311, SOCL 310		
<b>Science Electives</b> (select one from the following)		3-4
BIOL 205, 206, 303, 304, 323, CHEM 105/107, GEOG 500, GEOL 110/113, 201, 220, PHYS 105, 201		
<b>Foreign Language</b>		0-4
<b>Minor</b>		<b>15-24</b>
<b>General Electives</b>		<b>11-47</b>
<b>Total</b>		<b>124</b>

†Students completing the required program in Environmental Studies must demonstrate proficiency in a foreign language at or above the second semester college-level. This requirement may be met by a satisfactory score or a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

**Bachelor of Science in Environmental Sciences**

The BS degree in Environmental Sciences will educate students in the scientific, social, political, ethical, and policy aspects of environmental issues in preparation for scientific careers in industry, government, and consulting, and for graduate programs in environmental sciences.

		<b>Semester Hours</b>
<b>General Education Courses</b>		
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101, CRTW 201	Comp; Critical Reading, Thinking, & Writing	6
<b>Quantitative Skills</b>		
MATH 105 or 201	Calc for Mgr & Life Sci; Calculus I	3
<b>Logic/Language/Semiotics</b>		
MATH 141	Finite Probability & Statistics	3
Foreign Language		3-4†
<b>Oral Communication</b>	See approved list, p. 37	0-3
<b>Technology</b>	See approved list, p. 37 – CSCI 101 and three of CSCI 101 A, B, C or P recommended	0-3
<b>Skills for Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37; may be met in major	0-3
<b>Historical Perspectives</b>	See approved list, p. 37; may be met in major	0-3
<b>Developing Critical Skills and Applying them to Disciplines</b>		
<b>Natural Science</b>	Met in major by BIOL 203/204, GEOL 110	0
<b>Social Science</b>	Met in major	0
<b>Humanities and Arts</b>	3 hours met in major; see approved list for 3 hours from another designator	3
<b>Intensive Writing</b>	Met in major by ENV5 520	0
<b>Constitution Requirement</b>	May be met by other requirements; see approved list, p. 38	0-3
<b>Subtotal</b>		<b>22-38</b>
<b>Requirements in the Major</b>		<b>45</b>
ENV5 101, 520	Intro to Environmental Issues, Seminar in Environ	6
BIOL 203/204	Principles of Biology/Lab	4
BIOL 205 or 206	General Botany, Zoology	4
BIOL 300	Scient Process	4
BIOL 403 or 515	Ecology, Environmental Biol	4
CHEM 105/107,106/108	General Chem I & II	8

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CHEM 301/303 or 310/311	Organic Chem I, Essential of Organic Chem	4
GEOL 110/113, 340	Physical Geol/Lab, Hydrogeology	7
PHYS 201 or 211	General Physics, Physics with Calculus	4
<b>Science/Math Electives</b> (select from the following, at least 2 designators)		<b>9-13</b>
ANTH 540	Ecological Anthropology	
BIOL 205 or 206	Botany, Zoology	
BIOL 310, 323	Microbiology, Tropical Watershed	
CHEM 302/304	Organic Chemistry II	
CHEM 312/313/314, 315	Chemometrics/Quant Analysis/Lab/Envir Chem	
ENVS 495, 510	Independ Res in Environ, Special Topics	
GEOG 500	Global Environment & Sustainable Development	
GEOL 201, 220, 335	Nat Disasters, Oceanography, Fundamentals of Geochemistry	
MATH 202, 300, 305, 546	Calc II, Linear Algebra, Diff Equa, Appl Stats	
PHYS 202 or 212	Gen Physics II, Physics with Calc II	
<b>Environmental humanities and social sciences electives</b>		<b>12</b>
Select at least three designators from the following:		
ECON 103 or 215, and 343	Polit Econ, Prin of Microecon, Envir Econ	
GEOG 101 or 201, and 305	Human Geography, World Geog, Geog Info Systems	
HIST 530	World Environmental Hist	
PHIL 340	Environmental Ethics	
PLSC 325	Environmental Politics	
PSYC 311	Ecological Psychology	
SOCL 310	Soc of Environ	
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>General Electives</b>		<b>12-36</b>
<b>Total</b>		<b>124</b>

†Students completing the required program in Environmental Sciences must demonstrate proficiency in a foreign language at or above the second semester college-level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

## HISTORY

### Faculty

#### Professors

Jason H. Silverman

#### Associate Professors

Rory T. Cornish, *Chair*

L. Andrew Doyle

Lynne Dunn

Edward S. Haynes

J. Edward Lee

Virginia S. Williams

#### Assistant Professors

Michael S. Aradas

Opolot Okia

David Pretty

#### Lecturers

Mary Catherine Griffin

Robert Sturgis

### Bachelor of Arts in History

The history major is frequently chosen by students who wish to pursue careers in such fields as teaching, law, library and archival work, and journalism, as well as in areas less directly related to the study of history, including fields in business and industry.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105, or 201 or a MATH course with MATH 201 prerequisite		3

<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
CSCI, PHIL 220 or 225, SPCH 201, MATH, QMTH		3
<b>Oral Communication</b>	Met in major by HIST 500	0
<b>Technology</b>	See approved list, p. 37; may be met by another req	0-3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNET 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	Met in major	0
<b>Historical Perspectives</b>	Met in major	0
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b>	From 2 categories and one must be a lab science	7
<b>Social Science</b>	See approved list, p. 37; must include two designators	6-9*
<b>Humanities and Arts</b>	3 met in major, remaining 6 from two designators on approved list, p. 38	3-6*
*A total of 12 hours must be met from these two categories.		
<b>Intensive Writing</b>	Met in major by HIST 500	0
<b>Constitution Requirement</b>	Met in major	0
<b>Subtotal</b>		<b>38-42</b>
<b>Requirements in the Major</b>		
2 of HIST 111, 112, 113	World Civ to 950, Wld Civ 950-1750, Wld Civ Since 1750	6
HIST 211	US History to 1877	3
HIST 212	US History since 1877	3
HIST 500	Historiography and Methodology	3
<b>HIST electives, including 6 hours at the 500 level and at least 3 semester hours from each of the following groupings:</b>		<b>15</b>
<b>United States:</b>		
HIST 308, 310, 313, 314, 315, 321, 501, 505, 507, 509, 515, 518, 521, 524, 525, 527;		
<b>Europe:</b>		
HIST 343, 344, 345, 346, 347, 540, 542, 547, 548;		
<b>Asia, Africa and Latin America:</b>		
HIST 331, 332, 337, 338, 351, 352, 551, 552, 553, 560, 561.		
HIST 350, 355A, B, C, 450, 463, 471/472, and 550 may also be taken as electives and would be applied to groupings as above in which the particular subject matter applies.		
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>Minor</b>		<b>15-24</b>
<b>General Electives</b>		<b>24-41</b>
<b>Total</b>		<b>124</b>

†Students completing the required program in BA History must demonstrate proficiency in a foreign language at or above the second semester college-level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

### **Bachelor of Arts in History Certification as Secondary School Teacher of Social Studies**

Students desiring Certification as teachers of secondary social studies should consult with the department's teacher certification adviser and the College of Education section of the catalog for specific requirements for admission to the Teacher Education Program.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105, MATH 201 or any MATH with 201 prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
CSCI; PHIL 220-225; SPCH 201; MATH; QMTH; ARTS 281 or VCOM 261		3
<b>Oral Communication</b>	Met in major	0
<b>Technology</b>	Met in major	0



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<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	Met in major	0
<b>Historical Perspectives</b>	Met in major	0
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b>		7
Laboratory science in life sciences		
Laboratory science in earth or physical sciences		
<b>Social Science</b>	Met by major	0
<b>Humanities and Arts</b>	3 hours met in major; select 3 hours from another designator on approved list, p. 38.	3
<b>Intensive Writing</b>	Met by major	0
<b>Constitution Requirement</b>	Met by major	0
<b>Subtotal</b>		<b>29-30</b>
<b>Requirements in the Major</b>		
<b>54</b>		
ANTH 201; ECON 215, 216, GEOG 101, 306; PLSC 201, 202; SOCL 101		
24		
Select 2 from HIST 111, 112, & 113		
6		
HIST 211, 212, 500		
9		
HIST electives		
15		
Including at least 6 hours at the 500 level and at least 3 semester hours from each of the following groupings:		
<b>United States</b>		
HIST 308, 310, 313, 314, 315, 321, 501, 505, 507, 509, 515, 518, 521, 524, 525, 527;		
<b>Europe</b>		
HIST 343, 344, 345, 346, 347, 540, 542, 547, 548;		
<b>Asia, Africa, and Latin America</b>		
HIST 331, 332, 337, 338, 351, 352, 551, 552, 553, 560, 561.		
HIST 350, 355A, B, C; 450, 463, 471/472 and 550 may also be taken as electives and would be applied to the groupings above in which the particular subject matter applies. (Six hours of Global Perspectives and/or European, and 6 hours of US and/or SC are strongly recommended.)		
<b>Professional Education Sequence:</b>		
<b>33</b>		
EDUC 110*, 210*, 250*, 275*, 310*, 390*, 475, 490		
29		
SCST 391, 392		
4		
<b>Foreign Language Requirement</b>		
<b>0-4</b>		
<b>General Electives</b>		
<b>3-8</b>		
<b>Total</b>		
<b>124</b>		

†Students completing the required program for the BA in History, Certification as a secondary school teacher of social studies must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized proficiency examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

\*A grade of C or better is required.

In addition to the requirements for their major, students must meet requirements for the Teacher Education Program, which include the requirements for Admission to Teacher Education, Entry to the Professional Stage, and Program Completion. For information on these requirements, consult the Student Academic Services in the College of Education.

**The PRAXIS II Series is required prior to graduation:** 1) Subject Assessment/Specialty Area Tests and 2) Principles of Learning and Teaching (PL) Test.

The student must attain a cumulative grade-point average of 2.75 or better in courses taken at Winthrop and a minimum of a 2.0 in the 54 semester hours of the required program. The student must complete a minimum of 12 semester hours of HIST courses in residence at Winthrop University. Within the 124 semester hours required for this BA degree, the student must also include a minimum of 40 semester hours in courses numbered above 299. No more than three hours of Cooperative Education Experience can count toward the major.

**HUMAN NUTRITION****Faculty****Professors**

Sarah F. Stallings  
Patrica Giblin Wolman, *Chair*

**Associate Professors**

R. Carlton Bessinger  
E. Jean Silagy Rebovich

**Instructors**

Christine H. Goodner  
Christopher Storie (Geography)  
Judy Harper Thomas

**Lecturers**

Michelle Johnson  
Sally Kiefer  
Ratna Kolhatkar  
Stephanie Nielsen  
Mildred Strother-Davis  
Alice Sutton  
Bryan Townsend (Geography)  
Elizabeth Weikle

**Bachelor of Science in Human Nutrition  
(Didactic Program in Dietetics Option)**

**CADE Accredited Didactic Program in Dietetics**

Students completing Winthrop University's Didactic Program in Dietetics meet or exceed the minimum academic requirements of the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association. CADE is a specialized accrediting body recognized by the Council on Higher Education Accreditation and the United States Department of Education. The address and phone number of CADE are: 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, (312) 899-4876. Students will be prepared to work as entry-level dietitians after completing an accredited internship. CADE Didactic Program in Dietetics verification from Winthrop University requires completion of the BS degree in Human Nutrition with a minimum grade of C in all NUTR courses completed at Winthrop and a grade point average greater than or equal to 2.5 in all NUTR courses.

At least 32 semester hours of NUTR courses above the 299 level must be completed at Winthrop University. A maximum of 12 hours of NUTR-equivalent courses above the 199 level may be transferred into the major from another accredited institution with approval from the Director of the Didactic Program in Dietetics. No credit will be accepted for NUTR courses greater than ten years old unless the student earns a grade of "75%" or better on an examination administered by the instructor of record for the equivalent Winthrop course.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking Skills</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or MATH 201 or any MATH with MATH 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
MATH 141	Finite Probability and Statistics	3
<b>Oral Communication</b>		
SPCH 201	Public Speaking	3
<b>Technology</b>		
	See approved list, p. 37; may be met by major	0-3
<b>Skills for a Common Experience and Thinking across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>		
	See approved list, p. 37	3
<b>Historical Perspectives</b>		
	See approved list, p. 37	3
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b> (must take a total of 7 semester hours in Natural Sciences courses)		
NUTR 221	Human Nutrition	3
CHEM 105/107	Gen Chemistry I/Lab	4
<b>Social Science</b> (must include two designators)		
SOCL 201 or ANTH 201	Princ of Soc or Cultural Anthropology	3
PSYC 101	General Psychology	3

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ECON 215	Microeconomics	3
<b>Humanities and Arts</b>		6
Select at least two courses from two different subject areas. See approved list, p. 38.		
<b>Intensive Writing</b>		
NUTR 534	Seminar in Human Nutrition	3
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other requirements	0-3
<b>Subtotal</b>		<b>53-60</b>
<b>Requirements in Major</b>		<b>65</b>
NUTR 226, 231/232, 327, 340C, 370, 371, 421, 427, 471, 480, 521, 522, 523/524, 527		40
BIOL 308, 310		8
CHEM 106/108, 310/311, 521		11
PSYC 206	Developmental Psychology	3
ACCT 280	Acct info for Bus Decisions I	3
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>General Electives</b>		<b>0-6</b>
<b>Total</b>		<b>124-129</b>

† Students completing the required program in BS Human Nutrition must demonstrate proficiency in a foreign language at or above the second semester college-level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

**Bachelor of Science in Human Nutrition  
(Nutrition Science Option)**

Students completing Winthrop University's Nutrition Science Option meet or exceed the minimum academic requirements for graduate study in medicine, dentistry, physical therapy, pharmacy, and physician assistant programs. At least 21 semester hours of NUTR courses above the 299 level must be completed at Winthrop University. A maximum of 12 hours of NUTR-equivalent courses above the 199 level may be transferred into the major from another accredited institution with approval from the Department Chair. No credit will be accepted for NUTR courses greater than ten years old unless the student earns a grade of "75%" or better on an examination administered by the instructor of record for the equivalent Winthrop course.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking Skills</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or MATH 201 or any MATH with MATH 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
MATH 141	Finite Probability and Statistics	3
<b>Oral Communication</b>		
SPCH 201	Public Speaking	3
<b>Technology</b>	See approved list, p. 37; may be met by another requirement	0-3
<b>Skills for a Common Experience and Thinking across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37	3
<b>Historical Perspectives</b>	See approved list, p. 37	3
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science--Must take a total of 7 semester hours in Natural Sciences courses</b>		
NUTR 221	Human Nutrition	3
CHEM 105/107	Gen Chemistry I/Lab	4
<b>Social Science</b>		
SOCL 201 or ANTH 201	Princ of Soc or Cultural Anthropology	3
PSYC 101	General Psychology	3
ECON 215	Microeconomics	3
<b>Humanities and Arts</b>		6
Select at least two courses from two different subject areas. See approved list, p. 38.		

<b>Intensive Writing</b>		
NUTR 534	Seminar in Human Nutrition	3
<b>Constitution Requirement</b>	See approved list, p. 38	0-3
<b>Subtotal</b>		<b>53-60</b>
<b>Requirements in Major</b>		<b>68</b>
NUTR 231/232, 327, 370, 421, 427, 521, 522, 523/524, 527		27
BIOL 307, 308, 310	Human Anatomy, Physiology, Microbiology	12
CHEM 106/108, 301/303, 302/304, 521	Gen Chem, Organic Chem I & II, Nutri Biochem	15
PHYS 201, 202	General Physics I & II	8
PSYC 206	Developmental Psychology	3
HCMT 200	Intro to Health Care Mgmt	3
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>General Electives</b>		<b>0</b>
<b>Total</b>		<b>124-132</b>

†Students completing the required program in BS Human Nutrition must demonstrate proficiency in a foreign language at or above the second semester college-level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

### **Bachelor of Science in Human Nutrition (Food Systems Management Option)**

Students completing Winthrop University's Food Systems Management Option are prepared for entry-level positions in food systems administration. Career opportunities are available in both institutional and commercial food service settings. Graduates are recruited by food systems management companies. Sales positions with food and equipment companies offer additional career opportunities.

At least 22 semester hours of NUTR courses above the 299 level must be completed at Winthrop University. A maximum of 12 hours of NUTR-equivalent courses above the 199 level may be transferred into the major from another accredited institution with approval from the Department Chair. No credit will be accepted for NUTR courses greater than ten years old unless the student earns a grade of "75%" or better on an examination administered by the instructor of record for the equivalent Winthrop course.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking Skills</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or MATH 201 or any MATH with MATH 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
MATH 141	Finite Probability and Statistics	3
<b>Oral Communication</b>		
SPCH 201	Public Speaking	3
<b>Technology</b>		
CSCI 101 and 3 of 101A, B, C, or P	Intro to Comp & Info Proc	3
<b>Skills for a Common Experience and Thinking across Disciplines</b>		
GNEP 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37	3
<b>Historical Perspectives</b>	See approved list, p. 37	3
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b> --Must take a total of 7 semester hours in Natural Sciences courses		
NUTR 221	Human Nutrition	3
CHEM 105/107	Gen Chemistry I/Lab	4
<b>Social Science</b>		
SOCL 101	Social Problems	3
PSYC 101	General Psychology	3
ECON 215	Microeconomics	3
<b>Humanities and Arts</b>	Select at least 2 courses from 2 different subj areas. See approved list, p. 38.	6

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<b>Intensive Writing</b>		
NUTR 534	Seminar in Human Nutrition	3
<b>Constitution Requirement</b>	May be met by other reqs; see approved list, p. 38	0-3
<b>Subtotal</b>		<b>56-60</b>
<b>Requirements in Major</b>		<b>58</b>
NUTR 231/232, 327, 340C, 370, 371, 421, 471, 480, 523/524		27
ACCT 280, 281	Acct Info for Business Decisions I & II	6
CHEM 106/108	General Chemistry	4
BADM 180	Contemporary Business Issues	3
FINC 311	Principles of Finance	3
HCMT 200, 300	Intro to Health Care Mgmt, Health Care Manager	6
MGMT 321, 422	Principles of Management, Hum Res Mgmt	6
SOCL 314	Race & Ethnic Relations	3
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>General Electives</b>		<b>2-10</b>
<b>Total</b>		<b>124</b>

† Students completing the required program in BS Human Nutrition must demonstrate proficiency in a foreign language at or above the second semester college-level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

## MASS COMMUNICATION

### Faculty

#### Professors

J. William Click, *Chair*  
William A. Fisher

#### Assistant Professors

Padmini Patwardhan  
Guy S. Reel

#### Associate Professors

D. Haney Howell  
Marilyn S. Sarow  
Lawrence C. Timbs

#### Instructor

Mark S. Nortz

### Bachelor of Arts in Mass Communication

Students majoring in mass communication are interested in careers in newspaper journalism, broadcast journalism, broadcast production, media management, magazine journalism, public relations, advertising, business journalism, or online journalism.

By the time of graduation, mass communication graduates are expected to be able to gather, organize and process information; conduct interviews; write in professional style to a professional level of competence; and edit and produce, either in printed or broadcast form; all while meeting standards of professional ethics.

Students will be classified as pre-majors (MCMP) in the department until they have completed WRIT 101, GNED 102, CTQR 150, ECON 215, MCOM 205 and 241, and have attained a 2.0 or higher grade-point average, at which time they can apply for admission to the program.

Students are required to earn a "C" or better in each required course in the major as well as to earn at least a 2.0 GPA in the major.

Students are required to type all written assignments and must furnish their own word processors. Keyboard proficiency is required for MCOM 241 and is tested each semester. Students who fail the test must wait until the following semester to take the test again.

The mass communication major is limited to 36 hours of MCOM and IMCO courses. Students who exceed 36 hours in MCOM and IMCO will not be allowed to apply those additional hours toward the required degree program.

Students are expected to complete courses in the major in numerical order; for example, MCOM 205, 241, 333, 342, 343, 410, 412, 441.

At least 21 semester hours of the major must be completed at Winthrop University. A maximum of 12 semester hours may be transferred into the major from another accredited institution; additional transfer hours in journalism or mass communication will not apply toward the degree. MCOM 241 and 342 must be taken at Winthrop. A grade of B or better in WRIT 101 is required for admission to MCOM 241.

Students must complete at least 65 hours in the basic liberal arts and sciences.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101, CRTW 201	Composition, Crit Reading, Thinking, & Writing	6
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or 201 or a MATH course with 201 as a prerequisite		3
<b>Technology</b>	Met by major, MCOM 205 and 241	0
<b>Oral Communication</b>	Met by major	0
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
SPCH 201	Public Speaking	3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37	3
<b>Historical Perspectives</b>		
HIST 212 or 308 or 507 or 509		3
<b>Developing Critical Skills and Applying them to Disciplines</b>		
<b>Social Science</b>	See approved list, p. 37.	0-3*
PLSC 202, ECON 215	State and Local Gov't, Princ of Microeconomics	6
<b>Humanities and Arts</b>	See approved list, p. 38; 3 hours may be met in major.	6-9*
*Must take 9 hours from these two categories.		
<b>Natural Science</b>	2 designators from two of three categories – earth, life sci, physical sci – must be chosen	7
<b>Intensive Writing</b>	Met in major by MCOM 412	0
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other req	0-3
<b>Subtotal</b>		<b>47-51</b>
<b>Requirements in Major</b>		<b>37-41</b>
Statistics (MATH 141 or QMTH 205 or SOCL 316 or PSYC 301)		3-4
MCOM 205, 241, 410, 412, 499		13
<b>Complete one of the following sequences:</b>		
<b>Journalism:</b>		
MCOM 333, 342, 441; one from MCOM 331 or 343 or 471 or 510; and ARTS 305 or 310 or 311		15
MCOM Electives		9
<b>Broadcast:</b>		
MCOM 325, 346, 425, 446; and 444 or 447		15
MCOM Electives		6
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>Minor</b>		<b>15-24</b>
<b>General Electives</b>		<b>4-25</b>
<b>Total</b>		<b>124</b>

†Students completing the required program for the B.A. degree in Mass Communication must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

In addition to the required major, the student must select and complete a minor or a second major, attaining no less than a 2.0 GPA in the minor or second major. Within the 124 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299. The student must attain a cumulative grade-point average of 2.0 or better in courses taken at Winthrop and in those courses included in the major.

### Bachelor of Science in Integrated Marketing Communication

Students majoring in integrated marketing communication are interested in careers in the various communication professions that support the marketing of products and services to consumers and business organizations, including advertising, public relations, integrated marketing communication, and corporate communication.

By the time of graduation, integrated marketing communication graduates are expected to be able to gather, organize and process information and data, conduct interviews, write in professional style to a professional level of competence, and produce marketing communication messages and materials in printed, electronic or multimedia form, all while meeting standards of professional ethics.

Students will be classified as pre-majors (IMCP) in the program until completion of 19 hours of coursework (CTQR 150, WRIT 101, GNED 102, ECON 215, CSCI 101, IMCO 105, and MCOM 241) with a minimum GPA of 2.0. Students

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must apply to the Integrated Marketing Communication Committee for admission into the program.

Students are required to earn a "C" or better in each course in IMCO, MCOM, MGMT and MKTG.

Keyboard proficiency is required for MCOM 241.

The integrated marketing communication major is limited to 36 hours of MCOM and IMCO courses and 30 hours of business administration courses. Students who exceed these maxima will not be allowed to apply those additional hours toward the required degree program.

Students are expected to complete courses in the major in the prescribed order. Assigned academic advisers should be consulted regarding course selection and sequencing.

At least 35 semester hours of the 47 required hours in mass communication and business administration must be completed at Winthrop University. A maximum of 12 semester hours may be transferred into the major from other accredited institutions; additional transfer hours in journalism, mass communication, marketing and management will not apply toward the major and will not apply toward the degree if they exceed the maxima of 36 hours in MCOM and IMCO or 30 hours in business administration. Students must complete at least 65 hours in the basic liberal arts and sciences.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101, CRTW 201	Composition, Crit Reading, Thinking, & Writing	6
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or 201 or a MATH course with 201 as a prerequisite		3
<b>Technology</b>	Met by major	0
<b>Oral Communication</b>	Met by major	0
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
SPCH 201	Public Speaking	3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37	3
<b>Historical Perspectives</b>		
HIST 212 or 308 or 507 or 509		3
<b>Developing Critical Skills and Applying them to Disciplines</b>		
<b>Social Science</b>	See approved list. p. 37	0-3*
PSYC 101, ECON 215	Gen Psyc, Prin of Microecon	6
<b>Humanities and Arts</b>	See approved list, p. 38; 3 may be met in major	6-9*
*Must take 9 hours from these two categories.		
<b>Natural Science</b>	See approved list, p. 38; 2 categories; one must have a lab	7
<b>Intensive Writing</b>	See approved list, p. 38; may be met by other requirement	0-3
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other requirement	0-3
<b>Subtotal</b>		<b>47-54</b>
<b>Requirements in Major</b>		
IMCO 105, 475	Intro to Integ Mktg Comm,Seminar in IMC	4
MCOM 241, 341, 370, 410, 461 or 462 or 463, 499		14-16
6 hours from MCOM 333, 346, 349, 471, and one MCOM elective		9
ACCT 280; BADM 411; MKTG 380, 381, 481, 482; MGMT 321		21
ARTS 305 or 310 or 311 or VCOM 222 or 251 or 258		3
QMTH 205 and 206	Applied Statistics I & II	6
CSCI 101 & CSCI 101A, B & C	Intro to Comp & Information Processing	3
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>General Electives</b>		<b>4-17</b>
<b>Total</b>		<b>124</b>

†Students completing the required program for the B.S. degree in Integrated Marketing Communication must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score of a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

Within the 124 semester hours required for this degree, the student must also include a minimum of 40 semester hours numbered above 299. The student must attain a cumulative grade-point average of 2.0 or better in courses taken at Winthrop and included in the required courses in the integrated marketing communication program.

**MATHEMATICS****Faculty****Professors**

Gary T. Brooks, *Chair*  
 Ronnie C. Goolsby  
 Thomas W. Polaski  
 Danny W. Turner

**Assistant Professors**

Carlos E. Caballero  
 Beth G. Costner  
 Dawn Strickland

**Instructors**

Nanette Altman  
 Iris Coleman  
 Ovid Mentore  
 Marion Setien  
 Rudolph Wiegand

**Associate Professors**

Heakyung Lee  
 Frank B. Pullano

**Bachelor of Arts in Mathematics**

This degree program is designed for students who wish to major in mathematics as liberal arts students or for students wishing to pursue careers as mathematics teachers. Students who expect to become professional mathematicians or to do graduate work in mathematics should select the Bachelor of Science in mathematics program.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
	Met by major	0
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
<b>Oral Communication</b>	See approved list, p. 37	0-3
<b>Technology</b>	Met in major by CSCI 151	0
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNEP 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37	3
<b>Historical Perspectives</b>	See approved list, p. 37	3
<b>Developing Critical Skills and Applying them to Disciplines</b>		
<b>Natural Science</b>	See approved list, p. 38; must include courses from 2 categories and one lab course	7
<b>Social Science</b>	See approved list, p. 37; must include 2 designators	6-9*
<b>Humanities and Arts</b>	See approved list, p. 38; must include 2 designators	6-9*
*Must have a total of 15 hours in these two categories.		
<b>Intensive Writing</b>	See approved list, p. 38	3
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other requirements	0-3
<b>Subtotal</b>		<b>44-51</b>
<b>Requirements in the Major</b>		
MATH 201, 202, 300, 301, 302, 351, 375, 522, 541		27
Select 9 additional hours from MATH courses above 300		9
CSCI 151, 207	Overview of Comp Sci, Intro to Comp Sci I	7
MAED 200	Intro to Mathematica	1
<b>Minor</b>		<b>15-24</b>
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>General Electives</b>		<b>1-21</b>
<b>Total</b>		<b>124</b>

†Students completing the required program for the BA degree in mathematics must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be applied to the Logic/Language/Semiotics Area.

The student must attain a cumulative GPA of 2.0 or better in courses taken at Winthrop and in the 44 semester hours of the required program. The student must complete a minimum of 12 semester hours of MATH courses in residence at Winthrop University. In addition to the 44 hours of the required program, the student must select and complete a minor, attaining no less than a 2.0 GPA in the minor. Within the 124 hours required for this degree, the student must also include a minimum of 40 hours in courses numbered above 299. No more than three hours of Cooperative Education Experience can count toward the major. Students desiring certification as teachers of mathematics should consult the specific program requirements listed in the next section.



**Bachelor of Arts in Mathematics - Certification as Secondary School Teacher**

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>	Met by major	0
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
<b>Oral Communication</b>	Met by major	0
<b>Technology</b>	Met in major by CSCI 151	0
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives*</b>	See approved list, p. 37	3
<b>Historical Perspectives*</b>	See approved list, p. 37	3
<b>Developing Critical Skills and Applying them to Disciplines</b>		
<b>Natural Science</b>		7
Lab science in life sciences		
Lab science in earth or physical science		
<b>Social Science</b>	See approved list, p. 37; must include 2 designators	6-9*
<b>Humanities and Arts</b>	See approved list, p. 38; must include 2 designators	6-9*
*Must have a total of 15 hours in these two categories.		
<b>Intensive Writing</b>	Met by major	0
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other requirements	0-3
<b>Subtotal</b>		<b>41-45**</b>
<b>Requirements in Major</b>		<b>44</b>
MATH 201, 202, 300, 301, 302, 351, 375, 522, 541		27
MATH 542, 545, or 546	Statistics	3
MATH 520, MAED 548	Found of Geom, Sec Math Cur & Ped Issues	6
CSCI 151, 207	Overview of Comp Sci, Intro to Comp Sci I	7
MAED 200	Intro to Mathematica	1
<b>Professional Education Sequence</b>		<b>33</b>
EDUC 110, 210, 250, 275, 310, 390, 475, 490***		29
MAED 391, 392	Prin of Teaching Math, Field Exp in Teach Math	4
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>General Electives</b>		<b>0-6</b>
<b>Total</b>		<b>124-126</b>

†Students completing the required program for the BA degree in mathematics must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be counted in the Logic/Language/Semiotics Area.

\*\*Teacher education students must select one course from Multi-Cultural Perspectives. See list on page 39.

\*\*\* A grade of C or better is required in EDUC 110, 210, 250, 275, 310, and 390.

In addition to the requirements for their major, students must meet requirements for the Teacher Education Program, which include the requirements for Admission to Teacher Education, Entry to the Professional Stage, and Program Completion. For information on these requirements, consult the Student Academic Services in the College of Education. **The PRAXIS II Series is required prior to graduation:** 1) Subject Assessment/Specialty Area Tests and 2) Principles of Learning and Teaching (PLT) Test.

The student must attain a cumulative grade-point average of 2.75 or better in courses taken at Winthrop and a minimum of a 2.0 in the 43 semester hours of the required program. The student must complete a minimum of 12 semester hours of MATH courses in residence at Winthrop University. Within the 124-126 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299. No more than three hours of cooperative education experience can count toward the major.

**Bachelor of Science in Mathematics**

This degree program is designed for students whose career goals require a strong, comprehensive preparation in mathematics. Such careers include engineering, physics, computer technology and other areas of the sciences. Students pursuing careers as professional mathematicians and those who expect to do graduate work in mathematics are advised to choose this program for their undergraduate major in mathematics.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
	Met by major	0
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
<b>Oral Communication</b>		
	See approved list, p. 37	0-3
<b>Technology</b>		
	Met in major by CSCI 151	0
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNEC 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>		
	See approved list, p. 37	3
<b>Historical Perspectives</b>		
	See approved list, p. 37	3
<b>Developing Critical Skills and Applying them to Disciplines</b>		
<b>Natural Science</b> --See approved list; must include a course from the life or earth sciences; lab science requirement met by PHYS 211		
		3
<b>Social Science</b>		
	See approved list, p. 37; must include 2 designators	6-9*
<b>Humanities and Arts</b>		
	See approved list, p. 38; must include 2 designators	6-9*
*Must have a total of 15 hours in these two categories.		
<b>Intensive Writing</b>		
	See approved list, p. 38	3
<b>Constitution Requirement</b>		
	See approved list, p. 38; may be met by other requirements	0-3
<b>Subtotal</b>		<b>40-47</b>
<b>Required Program</b>		<b>58</b>
MATH 201, 202, 300, 301, 302, 351, 375, 522, 541		27
MATH 509, 551, or 553		3
MATH 542, 543, 545, or 575		3
MATH 509, 542, 543, 545, 551, 553, or 575		3
MATH courses above 300		6
MAED 200	Intro to Mathematica	1
CSCI 151, 207, 208	Overview of Comp Sci, Intro to Comp Sci I& II	11
PHYS 211	Physics with Calculus I	4
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>General Electives</b>		<b>15-26</b>
<b>Total</b>		<b>124</b>

†Students completing the required program for the BS degree in mathematics must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be counted in the Logic/Language/Semiotics Area.

The student must attain a cumulative grade-point average of 2.0 or better in courses taken at Winthrop and included in the 64 hours of the required program. The student must complete a minimum of 12 semester hours of MATH courses in residence at Winthrop University. Within the 124 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299. No more than three hours of Cooperative Education Experience can count toward the major.

**Bachelor of Science in Mathematics - Certification as Secondary School Teacher**

Students desiring certification as teachers of mathematics should consult with the department's teacher certification adviser and the College of Education section of the catalog for specific requirements for admission to the Teacher Education Program.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>	Met by major	0
<b>Logic/Language/Semiotics</b>		
Foreign Language	See additional requirements in major	3-4†
<b>Oral Communication</b>	Met by major by MAED 391	0
<b>Technology</b>	Met by major by EDUC 275	0
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives*</b>	See approved list, p. 37	3
<b>Historical Perspectives*</b>	See approved list, p. 37	3
<b>Developing Critical Skills and Applying them to Disciplines</b>		
Natural Science (met in major by biological lab science and PHYS 211)		0
<b>Social Science</b>	See approved list, p. 37; must include 2 designators	6-9*
<b>Humanities and Arts</b>	See approved list, p. 38; must include 2 designators	6-9*
*Must have a total of 15 hours in these two categories.		
<b>Intensive Writing</b>	Met by major by MAED 548	0
<b>Constitution Requirement</b>	See approved list, p. 38	0-3
<b>Subtotal</b>		<b>35-38**</b>
<b>Requirements in Major</b>		<b>61</b>
MATH 201, 202, 300, 301, 302, 351, 375, 522, 541		27
MATH 509, 551, or 553		3
MATH 542 or 545	Probability & Stats II, Stat Theory & Methods II	3
MATH 509, 542, 543, 545, 551, 553, or 575		3
MATH 520, MAED 548	Foundations of Geom, Sec Math Curriculum	6
MAED 200	Intro to Mathematica	1
CSCI 151, 207, 208	Overview of Comp Sci, Intro to Comp Sci I& II	11
PHYS 211	Physics with Calculus I	4
Lab Science in life science		3
<b>Professional Education Sequence</b>		<b>33</b>
EDUC 110, 210, 250, 275, 310, 390, 475, 490***		29
MAED 391, 392	Prin of Teaching Math, Field Exp in Teach Math	4
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>Total</b>		<b>129-136</b>

†Students completing the required program for the BS degree in mathematics must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be counted in the Logic/Language/Semiotics Area.

\*\* Teacher education students must select one course from Multi-Cultural Perspectives. See list on page 39.

\*\*\* A grade of C or better is required in EDUC 110, 210, 250, 275, 310, and 390.

In addition to the requirements for their major, students must meet requirements for the Teacher Education Program, which include the requirements for Admission to Teacher Education, Entry to the Professional Stage, and Program Completion. For information on these requirements, consult Student Academic Services in the College of Education. **The PRAXIS II Series is required prior to graduation:** 1) Subject Assessment/Specialty Area Tests and 2) Principles of Learning and Teaching (PLT) Test.

The student must attain a cumulative grade-point average of 2.75 or better in courses taken at Winthrop and a minimum of a 2.0 GPA in the 61 hours of the required program. The student must complete a minimum of 12 semester hours of MATH courses in residence at Winthrop University. Within the 128-136 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299 and complete PLSC 201 or ECON 103 or HIST 211 and 212. No more than three hours of Cooperative Education Experience can count toward the major.

**MODERN LANGUAGES****Faculty****Professors**

Donald Flanell Friedman  
Kenneth Gordon, *Chair*

**Associate Professors**

Barbara Esquivel-Heinemann  
Cecile Leung  
Pedro M. Muñoz

**Instructor**

Catalina Adams

**Lecturers**

Adelheid Carpenter  
Natasha L. Carrillo  
Guillermo I. Castillo-Feliú, *Professor Emeritus*  
Catherine D'Agostino  
Elizabeth Diaz  
Darlene Hegel  
Shelia Hill-Carter  
Steve Johnson  
Robert Lucas  
Claudia H. Priest

Charlene G. Rodriguez  
Deann M. Segal  
Tom Shealy, *Professor Emeritus*  
Jialin Shen  
Martine Simmons  
Victoria Uricoechea

**Bachelor of Arts in Modern Languages**

The Department of Modern and Classical Languages offers a BA in Modern Languages with two specializations, Spanish and French. Students majoring in foreign language have gone on to graduate school in advanced language study or international business, have entered the teaching profession, or have obtained positions in translation services and bilingual capacities in business and industry and in travel agencies.

The beginning courses (101-102), or the equivalent, are prerequisites for all other courses; however, they may not be applied toward fulfillment of the required program in any language. Beginning courses (101-102) in another language may be applied to the six hours required in the second language.

**Bachelor of Arts in Modern Languages – French**

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language	Met by major	0
CSCI; PHIL 220 OR 225; SPCH 201; MATH; QMTH; ARTS 281 or VCOM 261		3
<b>Oral Communication</b>	See approved list, p. 37; may be met by another req	0-3
<b>Technology</b>	See approved list, p. 37 ; may be met by another req	0-3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37; may be met by major	3
<b>Historical Perspectives</b>	See approved list, p. 37	3
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b>	See approved list, p. 38; select from 2 categories and one must be a lab science	7
<b>Social Science</b>	See approved list, p. 37; select from 2 designators	6-9*
<b>Humanities and Arts</b>	See approved list, p. 38; select from 2 designators	6-9*
*A total of 15 semester hours must be taken from these two categories.		
<b>Intensive Writing</b>	See approved list, p. 38; may be met by other requirement	0-3
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other requirement	0-3
<b>Subtotal</b>		<b>44-56</b>
<b>Requirements in Major</b>		<b>35-37</b>
FREN 201, 202, 250, 301 or 302, 310, 401 or 402, 499		19
FREN electives above 202 (excluding 575; may include MLAN 330A or 530A)		7
FREN 500-level electives		3
Second Foreign Language (excluding 575)		6-8
<b>Minor</b>		<b>15-24</b>
<b>General Electives</b>		<b>7-30</b>
<b>Total</b>		<b>124</b>

**Bachelor of Arts in Modern Languages – Spanish**

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language	Met by major	0
CSCI; PHIL 220 or 225; SPCH 201; MATH; QMTH; ARTS 281 or VCOM 261		3
<b>Oral Communication</b>	See approved list, p. 37; may be met by another req	0-3
<b>Technology</b>	See approved list, p. 37; may be met by another req	0-3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	Met by major	0
<b>Historical Perspectives</b>		
HIST 351 or HIST 352	Latin Am Hist, Hist of US-Latin Am Relations	3
<b>Developing Critical Skills applying them to Disciplines</b>		
<b>Natural Science</b> --See approved list; select from 2 categories and one must be a lab science)		7
<b>Social Science</b>	See approved list, p. 37; select from 2 designators	6-9*
<b>Humanities and Arts</b>	See approved list, p. 38; select from 2 designators	6-9*
*A total of 15 semester hours must be taken from these two categories.		
<b>Intensive Writing</b>	See approved list, p. 38; may be met by other requirement	0-3
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other requirement	0-3
<b>Subtotal</b>		<b>41-53</b>
<b>Requirements in Major</b>		
SPAN 201, 202, 225, 250, 301 or 302, 310, 401 or 402, 499		22
SPAN electives (above 202, excluding 575, may include MLAN 330B or 530B; must include at least three hours at the 500-level)		10
Second Foreign Language		6-8
<b>Minor</b>		<b>15-21</b>
<b>General Electives</b> (15 sem hours of study abroad in a Spanish Speaking country recommended)		<b>7-30</b>
<b>Total</b>		<b>124</b>

A competency exam on the basic skills may be administered to all majors, minors and any interested students after completion of the intermediate sequence (201, 202, 250). The exam is diagnostic, and remedial work, if needed, will be recommended.

Students should enroll in 499 and will be tested individually, after completion of 18 semester hours above 102, usually no later than the second semester of the junior year, and before enrollment in any 500-level course. Remedial work, if needed, will be recommended. A grade of S is required for graduation.

The student must complete a minimum of 12 semester hours in the major in residence at Winthrop University. In addition to the 36 semester hours of the required program, the student must select and complete a minor, attaining no less than a 2.0 GPA in the minor. Within the 124 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299. No more than three hours of Cooperative Education Experience can count toward the major.

**Bachelor of Arts in Modern Languages Certification as School Teacher (K-12)  
(French or Spanish Emphasis)**

Students desiring Certification as teachers of French or Spanish should consult with the department's teacher certification advisor and the College of Education section of the catalog for specific requirements for admission to the Teacher Education Program.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language	Met by major	0
CSCI; PHIL 220-225; SPCH 201; MATH; QMTH; ARTS 281 or VCOM 261		3
<b>Oral Communication</b>		
	Met by major	0
<b>Technology</b>		
	Met by major	0
<b>Skills for a Common Experience and Thinking across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>		
	Met by major	0
<b>Historical Perspectives</b>		
	See approved list, p. 37	3
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b>		
		7
Laboratory science in life sciences		
Laboratory science in earth or physical sciences		
<b>Social Science</b>		
	See approved list, p. 37; must include 2 designators	6-9**
<b>Humanities and Arts</b>		
	Select at least 2 courses from 2 different subj areas	6-9**
**A total of 15 hours must be taken from these two areas.		
<b>Intensive Writing</b>		
	See approved list, p. 38; may be met by other requirement	0-3
<b>Constitution Requirement</b>		
	See approved list, p. 38; may be met by other requirement	0-3
<b>Subtotal</b>		
		<b>41-47</b>
<b>Requirement in Major (Select one emphasis from the following.)</b>		
		<b>35-37</b>
<b>French Emphasis:</b> FREN 201, 202, 250, 301 or 302, 310, 401 or 402, 499		
		19
Select courses from FREN above 202 to include at least 3 hours at the 500 level		10
Electives in a second foreign language (excluding 575)		6-8
<b>Spanish Emphasis:</b> 201, 202, 225, 250, 301 or 302, 310, 401 or 402, 499		
		19
Select courses from SPAN above 202 to include at least 3 hours at the 500 level		10
Electives in a second foreign language (excluding 575)		6-8
<b>Professional Education Sequence</b>		
		<b>33</b>
EDUC 110*, 210*, 250*, 275*, 310*~, 390*~, 475~, 490~		29
MLAN 391~, 392~	Prin of Teach and Field Exp in Teach Mod Lang	4
<b>General Electives</b>		
		<b>7-15</b>
<b>Total</b>		
		<b>124</b>

\*A grade of C or better must be earned and may not be taken for S/U credit.

~Restricted to students admitted to the Teacher Education Program.

In addition to the requirements for their major, students must meet requirements for the Teacher Education Program, which include the requirements for Admission to Teacher Education, Entry to the Profession Stage, and Program Completion. For information on these requirements, consult the Student Academic Services in the Richard W. Riley College of Education.

**The PRAXIS II Series is required prior to graduation:** 1) Subject Assessment/Specialty Area Tests and 2) Principles of Learning and Teaching (PLT) Test.

The student must attain a cumulative grade-point average of 2.75 or better in courses taken at Winthrop and a GPA of 2.0 or better in the 36 hours of the required program. The student must complete a minimum of 12 semester hours in the major in residence at Winthrop University. Within the 124 semester hours required for the BA degree, the student must also include a minimum of 40 semester hours in courses numbered above 299. No more than three hours of Cooperative Education Experience can count toward the major.

COLLEGE OF ARTS & SCIENCES--PHILOSOPHY & RELIGIOUS STUDIES  
**PHILOSOPHY AND RELIGIOUS STUDIES**

**Faculty**

**Professor**

Houston A. Craighead, *Chair*

**Assistant Professors**

Peter J. Judge  
 Kristin Beise Kiblinger  
 William P. Kiblinger  
 David Meeler

**Professor Emeritus**

William W. Daniel

**Bachelor of Arts in Philosophy and Religion**

The study of Philosophy and Religion develops the skills of critical analysis at the most fundamental levels of human understanding. Students trained in philosophy and religion have pursued careers in teaching, ministry, law, medicine, management, publishing, sales, criminal justice and other fields.

Students may concentrate in either subject depending on career goals. Those planning graduate study in philosophy or religious studies would select the appropriate concentration.

The major program requires a total of 33 semester hours, including a required program of 18 hours and selection of 15 hours from one of three tracks.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
PHIL 220 or 225	Met by major requirements	0
<b>Oral Communication</b>	See approved list, p. 37; may be met by another req	0-3
<b>Technology</b>	See approved list, p. 37; may be met by another req	0-3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	Met by major requirements	0
<b>Historical Perspectives</b>	Met by major requirements	0
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b>	Select from 2 categories and one must be a lab science	7
<b>Social Science</b>	See approved list, p. 37; must include 2 designators	6
<b>Humanities and Arts</b>	Met in major	0
<b>Intensive Writing</b>	Met in major	0
<b>Constitution Requirement</b>	See approved list, p. 38	3
<b>Subtotal</b>		<b>32-39</b>
<b>Requirements in Major</b>		
<b>18</b>		
PHIL 201	Intro to Basic Issues In Philosophy	3
RELG 201	Intro to Religious Studies	3
PHIL 300	Hist of Phil from Plato to Modern Age	3
RELG 300	Comparative Religion	3
PHIL 220 or 225	Logic & Language, Symbolic Logic	3
PHIL 495 or RELG 495	Meth & Research Seminar in Philosophy/Religion	3
<b>Select from one of three tracks:</b>		
<b>Philosophy Track</b>		
<b>15</b>		
PHIL 230 or 315	Intro to Ethics, Hist Develop in Moral Reasoning	3
PHIL 303 or 310	Existentialism, Theories of Knowledge	3
Elect from other PHIL courses above 299 (excluding PHIL 320 and 340)		9
<b>Religious Studies Track</b>		
<b>15</b>		
RELG 313, 314, 320	Intro to Old Test, New Test, Religion in America	9
PHIL 390	Philosophy of Religion	3
Elect from other PHIL or RELG courses (excluding PHIL 320 and 340)		3
<b>Combined Track</b>		
<b>15</b>		
Elect from PHIL or RELG courses to include at least three hours above 299 from each (excluding PHIL 320 and 340)		
<b>Foreign Language</b>		<b>0-4</b>

<b>Minor</b>	<b>15-24</b>
<b>General Electives</b>	<b>24-44</b>
<b>Total</b>	<b>124</b>

†Students completing the required program for the BA degree in Philosophy and Religious Studies must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be counted in the Logic/Language/Semiotics Area.

The student must attain a cumulative grade-point average of 2.00 or better in courses taken at Winthrop and included in the 33 semester hours of the required program. The student must complete a minimum of 12 semester hours of PHIL and/or RELG courses in residence at Winthrop University. In addition to the 33 semester hours of the required programs, the student must select and complete a minor, attaining no less than a 2.00 GPA in the minor. Within the 124 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299.

**POLITICAL SCIENCE**

**Faculty**

**Professors**

Karen M. Kedrowski, *Chair*  
 Stephen S. Smith  
 Melford A. Wilson, Jr.

**Assistant Professors**

Adolphus G. Belk, Jr.  
 Jennifer Leigh Disney  
 Scott Huffmon  
 Michael Lipscomb

**Associate Professors**

Timothy S. Boylan  
 Christopher Van Aller

**Lecturer**

David Vehaun

**Bachelor of Arts in Political Science**

The study of political science provides students with an understanding of politics, law, international relations, government and public administration. Recent graduates have gone to work for local, state and national organizations as well as the United Nations. A large percentage of our graduates go to graduate or law school.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
CSCI, PHIL 220 or 225, SPCH 201, MATH, QMTH		3
<b>Oral Communication</b>	May be met in major	0-3
<b>Technology</b>	See approved list, p. 37; may be met by another req	0-3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNET 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	Met by major requirements	0
<b>Historical Perspectives</b>	See approved list, p. 37	3
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b>	Select from 2 categories and one must be a lab science	7
<b>Social Science</b>	3-6 met in major, 3-6 from other designators	3-6*
<b>Humanities and Arts</b>	3 may be met in major, 3-6 from other designators	6-9*
*a total of 12 semester hours from these two categories must be taken		
<b>Intensive Writing</b>	May be met in major	0-3
<b>Constitution Requirement</b>	Met in major by PLSC 201	0
<b>Subtotal</b>		<b>41-51</b>
<b>Required Program</b>		
PLSC 201	American Government	3



COLLEGE OF ARTS & SCIENCES--POLITICAL SCIENCE

PLSC 350	Scope and Methods	3
<b>American Government</b>		
Select from PLSC 202, 302, 305, 306, 307, 310, 311, 312, 313, 314, 315, 317, 371, or 518		3
<b>Comparative Government and International Relations</b>		
Select from PLSC 205, 207, 260, 335, 336, 337, 338, 345, 504, 505, 506, 508 or 532		3
<b>Political Theory</b>		
Select from PLSC 351, 352, 355, 356, 551 or 553		3
<b>Public Administration</b>		
Select from PLSC 320, 321, 323, 325, 512 or 524H		3
<b>PLSC electives</b>		12-18
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>Minor</b>		<b>15-24</b>
<b>General Electives</b>		<b>9-38</b>
<b>Total</b>		<b>124</b>

Note: Students are limited to a total of nine hours in the major in PLSC 450H, 471, 472, 473, 498, 501, 502, and 503 combined.

†Students completing the required program for the BA degree in Political Science must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be counted in the Logic/Language/Semiotics Area.

The student must attain a cumulative grade-point average of 2.0 or better in courses taken at Winthrop and included in the 30-36 semester hours of the required program. The student must complete a minimum of 12 semester hours of PLSC courses in residence at Winthrop University. In addition to the 30-36 semester hours of the required program, the student must select and complete a minor, attaining no less than a 2.0 GPA in the minor. Within the 124 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299.

**Bachelor of Arts in Political Science  
Certification as Secondary School Teacher for Social Studies**

Students desiring Certification as teachers of social studies should consult with the social studies teacher certification adviser and the College of Education section of the catalog for specific requirements for admission to the Teacher Education Program.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
CSCI, PHIL 220 or 225, SPCH 201, MATH, QMTH		3
<b>Oral Communication</b>	May be met in major	0-3
<b>Technology</b>	Met in major	0
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	Met in major	0
<b>Historical Perspective</b>	Met in major	0
<b>Developing Critical Skills/Applying them to Disciplines</b>		
<b>Natural Science</b>		7
Laboratory science in life science		
Laboratory science in earth or physical science		
<b>Social Science</b>	Met in major	0
<b>Humanities and Arts</b>	3 hours may be met in major; remaining 3-6 from second designator on approved list, p. 38	3-6
<b>Intensive Writing</b>	See approved list, p. 38; may be met in major	0-3
<b>Constitution Requirement</b>	Met in major by PLSC 201	0
<b>Subtotal</b>		<b>29-39</b>
<b>Requirements in Major</b>		<b>60</b>
PLSC 201	American Government	3
ANTH 201; ECON 215, 216; GEOG 101; GEOG 103, 104 or 306;		
HIST 211, 212, and 2 of 111, 112, 113; SOCL 101		30

<b>American Government</b>	Select from PLSC 202, 302, 305, 306, 307, 310, 311, 312, 313, 314, 315, 317, 371 or 518	3
<b>Comparative Government and International Relations</b>	Select from PLSC 205, 207, 260, 335, 336, 337, 338, 345, 504, 505, 506, 508 or 532	3
<b>Political Theory</b>	Select from PLSC 351, 352, 355, 356, 551 or 553	3
<b>Public Administration</b>	Select from PLSC 320, 321, 323, 325, 512, or 524H	3
<b>PLSC electives</b>		12-18
<b>Professional Education Sequence:</b>		
	EDUC 110, 210, 250, 275, 310, 390, 475, 490; SCST 391-392	33*
<b>Foreign Language Requirement</b>		0-4
<b>General Electives</b>		0-2
<b>Total</b>		<b>124-142</b>

Note: Students are limited to a total of nine hours in the major in PLSC 450H, 471, 472, 473, 498, 501, 502, and 503 combined.

†Students completing the required program for the BA degree in Political Science must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be counted in the Logic/Language/Semiotics Area.

\* A grade of C or better is required in EDUC 110, 210, 250, 275, 310, and 390.

In addition to the requirements for their major, students must meet requirements for the Teacher Education Program, which include the requirements for Admission to Teacher Education, Entry to the Professional Stage, and Program Completion. For information on these requirements, consult the Student Academic Services in the College of Education.

**The PRAXIS II Series is required prior to graduation:** 1) Subject Assessment/Specialty Area Tests and 2) Principles of Learning and Teaching (PLT) Test.

The student must attain a cumulative grade-point average of 2.75 or better in courses taken at Winthrop and a minimum of a 2.0 in the 60-66 semester hours of the required program. The student must complete a minimum of 12 semester hours of PLSC courses in residence at Winthrop University. Within the 124-142 semester hours required for the BA degree, the student must include a minimum of 40 hours in courses numbered above 299.

### Bachelor of Arts in Political Science Concentration in Public Policy and Administration

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105 or 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
CSCI 101	Intro to Comp & Info Processing	3
<b>Oral Communication</b>	May be met in major	0-3
<b>Technology</b>	Met in major	0
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	Met in major	0
<b>Historical Perspectives</b>	See approved list, p. 37	3
<b>Developing Critical Skills/Applying them to Disciplines</b>		
<b>Natural Science</b>	Select from 2 categories and one must be a lab science	7
<b>Social Science</b>	Met in major	0
ECON 216	Macroeconomics	3
<b>Humanities and Arts</b>	3 may be met in major, 3-6 from another designator	3-6
<b>Intensive Writing</b>	See approved list, p. 38; may be met in major	0-3
<b>Constitution Requirement</b>	Met in major by PLSC 201	0
<b>Subtotal</b>		<b>35-45</b>
<b>Required Program</b>		<b>30-36</b>
	PLSC 201, 202, 321, 323, 350, 473	18
	Select from PLSC 302, 315, 320, 325, 512, or 524H	3

## COLLEGE OF ARTS & SCIENCES--PRE-PROFESSIONAL PROGRAMS

<b>Comparative Government and International Relations</b>	
Select from PLSC 205, 207, 260, 335, 336, 337, 338, 345, 504, 505, 506, 508 or 532	3
<b>Political Theory</b>	
Select from PLSC 351, 352, 355, 356, 551 or 553	3
<b>PLSC electives</b>	3-9
<b>Foreign Language Requirement</b>	<b>0-4</b>
<b>Minor</b>	<b>15-24</b>
<b>General Electives</b>	<b>15-44</b>
<b>Total</b>	<b>124</b>

*Note: Students are limited to a total of nine hours in the major in PLSC 450H, 471, 472, 473, 498, 501, 502, and 503 combined.*

*†Students completing the required program for the BA degree in Political Science with a Concentration in Public Policy and Administration must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be counted in the Logic/Language/Semiotics Area.*

The student must attain a cumulative grade-point average of 2.0 or better in courses taken at Winthrop and included in the 30-36 semester hours of the required program. The student must complete a minimum of 12 semester hours of PLSC courses in residence at Winthrop University. In addition to the 30-36 semester hours of the required program, the student must select and complete a minor, attaining no less than a 2.0 GPA in the minor. Within the 124 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299.

## PRE-PROFESSIONAL PROGRAMS

Winthrop offers programs which prepare students for professional study in a variety of fields. Some of these are degree programs preliminary to advanced study in such disciplines as engineering, medicine, nursing, dentistry and law. A Winthrop faculty adviser will help students plan their studies to meet the requirements of several professional schools.

### Pre-Dental

Advisers: Dr. Carlton Bessinger, Dr. Lee Anne Cope, Dr. Aaron Hartel, Dr. James Johnston, Dr. Chasta Parker, Dr. Julian Smith, and Dr. Takita F. Sumter

A student who wishes to prepare for application to schools of dentistry or veterinary medicine should acquire a broad foundation in the natural sciences, mathematics, humanities and the social sciences. The specific requirements for admission to the College of Dental Medicine at the Medical University of South Carolina are 8 semester hours of each of the following: general chemistry, organic chemistry, physics, biology, and science electives. In addition, 6 semester hours of English composition and mathematics are required. Other dental schools have similar requirements. Students interested in dental medicine should seek advice about which science electives would be best. The Dental Admission Test (DAT) must be taken no later than the fall of the senior year. A B+ average in science courses and an acceptable score on the DAT are essential for dental school admission.

### Pre-Engineering Program

Adviser: Dr. Mesgun Sebhatu

The Pre-Engineering program provides students with the opportunity to complete an engineering degree at another university in four or five years by transferring from Winthrop after completing the necessary mathematics and science courses as well as basic courses in English, social sciences and humanities. Engineering programs require students to complete fundamental courses in calculus, differential equations, chemistry, physics, computer science, and engineering science during their first several years of college. Students who begin their college career at Winthrop have the advantage of completing these basic courses in smaller classes where they get individual faculty attention and access to modern instrumentation.

After two years of study at Winthrop, Pre-Engineering students have three options available to further their engineering education:

- 1. Dual Degree option:** Students selecting this option spend three years at Winthrop and two to three years at Clemson University. Upon graduation, they receive a Bachelor of Science degree in chemistry from Winthrop and an engineering degree from Clemson.
- 2. Engineering School option:** After two to three years at Winthrop, students selecting this option transfer directly into a specific program at an engineering school such as Clemson University, the University of South Carolina, Virginia Tech, Georgia Tech, North Carolina State, or the University of Florida to complete an engineering degree in their field of interest within another two to three years.
- 3. Winthrop Science/Mathematics Degree option:** After two years at Winthrop, Pre-Engineering students selecting

this option decide to complete a Bachelor of Science (e.g. mathematics, Chemistry, Computer Science, Environmental Science) at Winthrop within another two years and then to matriculate directly into a graduate engineering or science program at an engineering school or research university.

### **Pre-Law**

Adviser: Dr. Christopher Van Aller

The Association of American Law Schools and the Law School Admission Council do not prescribe a specific major or series of courses as preparation for law school. Although most pre-law students major in the social sciences or humanities, almost any discipline is suitable. More important than the major is the acquisition of thorough intellectual training, including a broad understanding of human institutions as well as analytical and communications skills. Early in their undergraduate careers, students considering law school should meet with the pre-law advisor in the Political Science Department for assistance in planning a suitable course of pre-law study compatible with the student's major subject. Additional information for students considering legal studies can be found in the Pre-Law Handbook (<http://www.winthrop.edu/plsc/prelaw.htm>).

### **Pre-Medical**

Advisory Committee: Dr. Carlton Bessinger, Dr. Janice Chism, Dr. Dwight Dimaculangan, Dr. Laura Glasscock, Dr. Aaron Hartel, Dr. James Johnston, Dr. Chasta Parker, Dr. Julian Smith, Dr. Takita F. Sumter, and Dr. Kristi Westover,

A student who wishes to prepare for application to medical school should acquire a broad foundation in the natural sciences, mathematics, humanities and the social sciences. Medical schools intentionally limit the absolute requirements for entry to encourage diversity among their applicants. Most medical schools require 6 semester hours each of English and Mathematics, and 8 semester hours each of biology, physics, general chemistry, and organic chemistry. Beyond these requirements, pre-medical students may select any major program they may wish to pursue. The most important requirements for admission to a medical school are at least a B+ average on all science courses taken and a good score on the Medical College Admission Test (MCAT), which is normally taken in the spring before the senior year.

### **Pre-Pharmacy**

Advisers: Dr. Carlton Bessinger, Dr. Aaron Hartel, Dr. James Johnston, Dr. Chasta Parker, Dr. Julian Smith, and Dr. Takita F. Sumter,

A student who wishes to prepare for application for Pharmacy school should acquire a solid foundation in the chemical and biological sciences. The specific requirements for admission to the Pharm.D. program at the Medical University of South Carolina include 8 hours of general chemistry, 8 hours of organic chemistry, 6 hours of physics, 6 hours of mathematics (at least 3 of which must be calculus), 3 hours of statistics, 8 hours of biology, 4 hours of microbiology, 9 hours of social sciences, 6 hours of English composition and literature and 3 hours of economics, psychology and interpersonal communication. The most important requirement is that students maintain a B+ average on all science courses.

### **Pre-Physical Therapy**

Advisers: Dr. James Johnston, Dr. Janice Chism, and Dr. Lee Anne Cope

A student who wishes to prepare for admission to either of the two physical therapy programs in South Carolina (USC or MUSC) must complete a 4-year baccalaureate degree. Regardless of the major, the student must complete course work in statistics, chemistry, physics, biology, anatomy, physiology, and psychology. A minimum grade point average of 3.0 is required. The student must present acceptable scores on all three components (verbal reasoning, quantitative reasoning and writing) of the Graduate Record Examination (GRE). In addition to acceptable grades and GRE scores, the student must have some experience with the practice of physical therapy. This is best accomplished through an internship course or other volunteer work.

### **Pre-Veterinary**

Advisers: Dr. Lee Anne Cope, Dr. Aaron Hartel, Dr. James Johnston, Dr. Chasta Parker, Dr. Julian Smith, and Dr. Takita F. Sumter,

A student who wishes to prepare for application to schools of veterinary medicine should acquire a broad foundation in the natural sciences, mathematics, humanities, and social sciences. The requirements for entry into schools of veterinary medicine are more variable than those for schools of medicine and dentistry. A student pursuing a career in veterinary medicine should major in biology or chemistry and consult the pre-veterinary adviser.

### **Other Pre-Professional Health Studies**

Adviser: Dr. James Johnston

Students may prepare themselves for application to programs in other health-related professions, such as nursing, optometry and podiatry. Persons interested in these fields should consult the adviser for specific details.

**PSYCHOLOGY****Faculty****Professors**

Melvin Goldstein  
 Heidar A. Modaresi  
 Joseph S. Prus, *Chair*

**Associate Professors**

Gary L. Alderman  
 Tim Daugherty  
 Cheryl Fortner-Wood  
 Kathy A. Lyon  
 Antigo D. Martin-Delaney  
 Donna Nelson  
 Jeff Sinn

**Assistant Professors**

Leigh Armistead  
 Jane Rankin  
 Darren Ritzer  
 Kwabena Sankofa  
 David Sleeth-Keppler  
 Merry Sleigh

**Instructor**

Lois J. Veronen

**Bachelor of Arts in Psychology**

The Psychology Major continues to be one of the most popular academic disciplines because the broad-based curriculum helps students 1) think scientifically, 2) appreciate and respect others, 3) communicate clearly, and 4) use technology and knowledge sources effectively. Graduates with a degree in Psychology are well prepared to make the transition to meaningful employment in many areas, including business and social service agencies. They have also been successful in pursuing advanced education within our own discipline, as well as others such as law, medicine, and social work. Students majoring in psychology take PSYC 101, 198 and CTQR 150 in their freshman year; CRTW 201, PSYC 301-302 in their sophomore year, 206 or other core courses in their junior year, and one of three capstone courses (PSYC 400, 463 or 498) in their senior year. Psychology majors must take PSYC 301-302 before enrolling in any other upper-division psychology courses.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 (preferred) or MATH 105, 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language (See additional requirements in major)		3-4†
CSCI; PHIL 220 or 225; SPCH 201; MATH; QMTH; ARTS 281 or VCOM 261		3
<b>Oral Communication</b>	See approved list, p. 37	3
<b>Technology</b>	See approved list, p. 37	3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37	3
<b>Historical Perspectives</b>	See approved list, p. 37	3
<b>Developing Critical Skills: Applying them to Disciplines</b>		
<b>Natural Science</b>	Select from 2 categories and one must be a lab science	7
<b>Social Science</b>	3 met in major, 3 from another designator	3-6*
<b>Humanities and Arts</b>	See approved list, p. 38	6-9*
*a total of 15 semester hours from these two groups must be taken		
<b>Intensive Writing</b>	See approved list, 38	3
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other requirement	0-3
<b>Subtotal</b>		<b>44-54</b>
<b>Requirements in Major</b>		<b>36</b>
<b>Foundations--PSYC 101, 198</b>	Gen Psychology, Psyc as Discipline & Profes	4
<b>Experimental Sequence--PSYC 301, 302</b>	Research I & II	8
<b>SR Capstone Exper--PSYC 400, 463 or 498</b>	Hist & Sys of PSYC, Internship, SR Seminar	3
<b>Core Courses--Choose 3 of 6: PSYC 206, 305, 313, 335, 409, 508</b>		9
<b>PSYC Electives (courses numbered above 299)</b>		12
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>Minor</b>		<b>6-29</b>
<b>General Electives</b>		<b>3-17</b>
<b>Total</b>		<b>124</b>

†Students completing the required program for the BA degree in Psychology must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized proficiency examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be counted in the Logic/Language/Semiotics Area.

The student must attain a cumulative grade point average of 2.00 or better in courses taken at Winthrop and in the 36 semester hours of the required program. In addition to the 36 semester hours of the required program, the student must select and complete a minor, attaining no less than a 2.0 GPA in the minor. Within the 124 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299.

#### Major Specific Notes:

- a) The student must attain a **grade of C or better** in **PSYC 101, 301 and 302**.
- b) The student must complete a minimum of 12 semester hours of PSYC courses in residence at Winthrop University. No more than three hours of Cooperative Education Experience or Academic Internship can count toward the major. **Not more than 36 semester hours in any one subject designator may apply to a Bachelor of Arts degree. A student may elect to apply up to 6 hours in the same subject designator toward general electives, general education distribution requirements, or a minor with the exception of the social sciences minor.**
- c) Students must complete the **Quantitative Skills requirement before beginning PSYC 301**.
- d) Students must complete **CRTW 201 before beginning PSYC 302**. Students who take PSYC 302 at Winthrop will receive credit for the Intensive Writing Component of the General Education requirements. Transfer credit for this course with intensive writing credit will be on a case-by-case basis.
- e) PSYC 198 may be waived at the discretion of the Chair and Dean's Office for students transferring with a considerable amount of Psychology credit or those who enter the major as Juniors or Seniors.
- f) Students **changing their majors from Biology to Psychology or Biology majors with Psychology minors**, who have completed BIOL 300 with a grade of "C" or better, are not required to complete PSYC 302. **Dual majors** in Psychology and Biology should complete only one of the two required experimental courses (PSYC 301 or BIOL 300). Consult your adviser for an appropriate course.
- g) Students changing their majors from **Sociology to Psychology or Sociology majors with Psychology minors**, who have passed SOCL 316 with a grade of "C" or better, are not required to complete PSYC 301. **Double majors** in Psychology and Sociology should complete only one of the two required statistics courses (PSYC 301 or SOCL 316). Consult your adviser for an appropriate course.

## SOCIAL WORK

### Faculty

#### Professors

Ronald K. Green, *Chair*  
Wilhelmenia Rembert

#### Assistant Professors

Brent E. Cagle  
Wendy S. Campbell

#### Associate Professors

Susan B. Lyman  
Ameda A. Manetta  
Deanna F. Morrow

#### Instructor

Linda M. Ashley

### Bachelor of Social Work

Students completing requirements for the BSW will be prepared for beginning generalist social work practice in a wide range of organizations such as child welfare agencies, hospitals, nursing homes, prisons, schools, and treatment centers for emotionally disturbed children and adults. The program provides undergraduate education and internship experience for working with individuals, small groups (including the family), organizations, and communities. National accreditation by the Council on Social Work Education (CSWE) allows graduates to become full members of the National Association of Social Workers (NASW) and to be eligible to become licensed social workers in states requiring licensing for employment.

COLLEGE OF ARTS & SCIENCES--SOCIAL WORK

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105, 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>	3 may be met in major by QMTH 205 or MATH 141	3-6
<b>Oral Communication</b>	See approved list; may be met by another req	0-3
<b>Technology</b>	Met in major requirements by CSCI 101, & 101A, B, C	0
<b>Skills for a Common Experience &amp; Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	Met in major	0
<b>Historical Perspectives</b>	See approved list, p. 37	3
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b>	Lab course with 2nd designator; 3 met in major	4
<b>Social Science</b>	Met in major	0
<b>Humanities &amp; Arts</b>	See approved list, p. 38; must include 2 designators	6
<b>Intensive Writing</b>	Met in major	0
<b>Constitution Requirement</b>	Met in major	0
<b>Subtotal</b>		<b>32-35</b>
<b>Requirements in the Major</b>		<b>72-73</b>
ANTH 201	Cultural Anthropology	3
CSCI 101, 101A, B, & C	Intro to Comp & Info Processing	3
ECON 103	Introduction to Political Economy	3
MATH 141 or SOCL 316 or QMTH 205	Statistics	3-4
PLSC 201	American Government	3
PSYC 101	General Psychology	3
SCIE 301	Biology of Aging	3
SCWK 200/201, 305, 306, 321, 330, 395, 432, 433, 434, 443, 463		42
SCWK electives (not to include SCWK 202)		6
SOCL 201	Principles of Sociology	3
<b>General Electives</b>		<b>16-23</b>
<b>Total</b>		<b>124</b>

A student may apply for status as a social work major at any point. In applying for initial entry into the social work program and recognition as a social work major, the student agrees to abide by the NASW (National Association of Social Workers) Code of Ethics. From that point, continued recognition as a social work major requires that the student's behavior comports to the standards of ethical conduct as spelled out in the Code of Ethics.

Prior to starting the social work intervention sequence - SCWK 395, 432, 433 and 434 - students must formally apply for admittance to SCWK 395. This process includes students providing a description of how they have met the requirement for 80 hours of voluntary or paid experience in a human service organization, and a demonstration that they have at least an overall GPA of 2.20 and a 2.40 GPA in all social work courses.

After completing all general education requirements and social work major course requirements through SCWK 434, including passing courses SCWK 200 through SCWK 434 with a grade of C or better and maintaining an overall GPA of 2.20 and a GPA of 2.40 in social work courses, the student is eligible to apply to enroll in the two courses which make up the final semester of field education. For graduation the student must have maintained an overall GPA of 2.20, a GPA of 2.40 in all social work courses, and have passed all social work courses with a grade of C or better.

The student must complete a minimum of 12 semester hours of SCWK courses in residence at Winthrop University and have a minimum of 40 semester hours in courses numbered above 299. No more than three hours of Cooperative Education Experience can count toward the major.

Students enrolled in the Certificate Program in Gerontology may substitute 3 hours of the required SCWK 443 field placement in an agency serving older adults for GRNT 440.

**SOCIOLOGY and ANTHROPOLOGY****Faculty****Professors**

Douglas L. Eckberg, *Chair*  
 April A. Gordon  
 Jonathan I. Marx  
 Jennifer Solomon  
 C. Jack Tucker

**Assistant Professors**

Richard Chacon  
 M. Kelly James

**Instructor**

Brad Tripp

**Bachelor of Arts in Sociology**

Recent graduates in sociology have secured positions in criminal justice, social work, city and urban planning, teaching, management, banking, sales, and marketing. Others have gone on to pursue advanced studies in sociology, social work, criminal justice, urban planning, law, and business administration.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105, 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
CSCI; PHIL 220 or 225; SPCH 201; MATH; QMTH; ARTS 281 or VCOM 261		3
<b>Oral Communication</b>	See approved list, p. 37; may be met by another req	0-3
<b>Technology</b>	See approved list, p. 37; may be met by another req	0-3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNEC 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37	3
<b>Historical Perspectives</b>	See approved list, p. 37	3
<b>Developing Critical Skills &amp; Applying them to Disciplines</b>		
<b>Natural Science</b>	Select from 2 categories and one must be a lab science	7
<b>Social Science</b>	3-6 met in major, 3-6 from another designator	3-6*
<b>Humanities and Arts</b>	See approved list, p. 38; must have at least 2 designators	6-9*
*Must have a total of 12 semester hours from these 2 categories)		
<b>Intensive Writing</b>	See approved list, p. 38; may be met by other requirement	0-3
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other requirement	0-3
<b>Subtotal</b>		<b>44-57</b>
<b>Requirements in Major</b>		
SOCL 101 or 201, and 316**, 498, 502, 516		15
Eighteen additional hours of SOCL, excluding courses listed above and SOCL 340 and 463		18
<b>Minor</b>		<b>15-24</b>
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>General Electives</b>		<b>6-32</b>
<b>Total</b>		<b>124</b>

†Students completing the required program for the BA in Sociology must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be counted in the Logic/Language/Semiotics Area.

\*\*Students with double majors in Psychology and Sociology may substitute PSYC 301 for SOCL 316 provided they complete an additional course in Sociology. Consult advisers for appropriate courses.

To be admitted into the program as a major, the student must complete SOCL 101 or 201 with the grade of C or higher. The student must attain a cumulative grade-point average of 2.0 or better in courses taken at Winthrop and included in the 33 semester hours of the required program. The student must complete a minimum of 12 semester hours of SOCL courses in residence at Winthrop University. Sociology majors are required to enroll in SOCL 316 the first semester after admission to the major, and they may not enroll in more than one SOCL course per semester (apart from SOCL 316 itself) until they meet the requirement. Students must attain a C or better in SOCL 316 to enroll in SOCL 516.



COLLEGE OF ARTS & SCIENCES--SOCIOLOGY

In addition to the 33 semester hours of the required program, the student must select and complete a minor, attaining no less than a 2.0 GPA in the minor. Within the 124 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299. Although not specifically required, students are strongly encouraged to take related courses in ANTH, ECON, HIST, MATH, PLSC and PSYC.

**Bachelor of Arts in Sociology  
Concentration in Criminology**

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105, 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
CSCI; PHIL 220 or 225; SPCH 201; MATH; QMTH; ARTS 281 or VCOM 261		3
<b>Oral Communication</b>	See approved list, p. 37; may be met by another req	0-3
<b>Technology</b>	See approved list, p. 37; may be met by another req	0-3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37	3
<b>Historical Perspectives</b>	See approved list, p. 37	3
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b> --Select from two categories and one must be a lab science		7
<b>Social Science</b>	6 met in major	0-3*
<b>Humanities and Arts</b>	Must have at least 2 subject designators	6-9*
*Must have a total of 9 hours in these two categories		
<b>Intensive Writing</b>	See approved list, p. 38; may be met by another req	0-3
<b>Constitution Requirement</b>	PLSC 201 recommended	3
<b>Subtotal</b>		<b>44-54</b>
<b>Requirements in Major</b>		
SOCL 101 or 201; 227, 316**, 325, 498, 502, and 516		21
SOCL 330, 335, 337, or 525		6
Six hours of SOCL excluding courses listed above and SOCL 340 and 463		6
PLSC 310	The Judiciary	3
<b>Minor</b>		<b>15-24</b>
<b>Foreign Language</b>		<b>0-4</b>
<b>General Electives</b>		<b>6-29</b>
<b>Total</b>		<b>124</b>

†Students completing the required program for the BA in Sociology must demonstrate proficiency in a foreign language at or above the second semester college level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be counted in the Logic/Language/Semiotics Area.

\*\*Students with double majors in Psychology and Sociology may substitute PSYC 301 for SOCL 316 provided they complete an additional course in Sociology. Consult advisers for appropriate courses.

To be admitted into the program as a major, the student must complete SOCL 101 or 201 with the grade of C or higher. The student must attain a cumulative grade-point average of 2.0 or better in courses taken at Winthrop and included in the 36 semester hours of the required program. The student must complete a minimum of 12 semester hours of SOCL courses in residence at Winthrop University. Sociology majors are required to enroll in SOCL 316 the first semester after admission to the major, and they may not enroll in more than one SOCL course per semester (apart from SOCL 316 itself) until they meet the requirement. Students must attain a C or better in SOCL 316 to enroll in SOCL 516.

In addition to the 36 semester hours of the required program, the student must select and complete a minor, attaining no less than a 2.0 GPA in the minor. Within the 124 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299. Although not specifically required, students are strongly encouraged to take related courses in ANTH, ECON, HIST, MATH, PLSC and PSYC.

**SPEECH****Faculty****Professor**Louis J. Rosso, *Chair***Instructor**

Bonnye Stewart

**Lecturers**

Jeannie Jordan

Christa Kea

Jackie Niedringhaus

**Associate Professor**

Anne E. Beard

**Bachelor of Arts in General Communication Disorders**

The Bachelor of Arts in General Communication Disorders provides pre-professional preparation in speech pathology. Students will receive instruction in the identification, diagnostic process, and therapeutic intervention of communication disorders including articulation, language, hearing, voice, and fluency. The program is designed to prepare students for graduate work leading to state and national certification and state licensure as a speech clinician.

<b>General Education Courses</b>		<b>Semester Hours</b>
ACAD 101	Principles of the Learning Academy	1
<b>Critical Skills</b>		
<b>Writing and Critical Thinking</b>		
WRIT 101	Composition	3
CRTW 201	Critical Reading, Thinking, & Writing	3
<b>Quantitative Skills</b>		
CTQR 150 or MATH 105, 201 or a MATH course with 201 as a prerequisite		3
<b>Logic/Language/Semiotics</b>		
Foreign Language		3-4†
CSCI; PHIL 220 or 225; SPCH 201; MATH; QMTH; ARTS 281 or VCOM 261		3
<b>Oral Communication</b>		
Technology	Met by major	0
	See approved list, p. 37; may be met by another req	0-3
<b>Skills for a Common Experience and Thinking Across Disciplines</b>		
GNED 102	The Human Experience: Who Am I?	3
<b>Global Perspectives</b>	See approved list, p. 37	3
<b>Historical Perspectives</b>	See approved list, p. 37	3
<b>Developing Critical Skills Applying them to Disciplines</b>		
<b>Natural Science</b> --Select from two categories and one must be a lab science		7
<b>Social Science</b>	See approved list, p. 37; must include two designators	6-9*
<b>Humanities and Arts</b>	See approved list, p. 38; must include two designators	6-9*
*A total of 15 semester hours from these two categories must be taken		
<b>Intensive Writing</b>	See approved list, p. 38; may be met by other requirement	0-3
<b>Constitution Requirement</b>	See approved list, p. 38; may be met by other requirement	0-3
<b>Subtotal</b>		<b>47-57</b>
<b>Requirements in Major</b>		
SPCH 203	Voice and Diction	3
SPCH 351	Intro to Communication Disorders	3
SPCH 352	Intro to Phonetics	3
SPCH 355	Anatomy & Physiology Speech & Hearing	3
SPCH 360	Articulation & Phonological Disorders	3
SPCH 410	Intro to Audiology	3
SPCH 425	Stuttering	3
SPCH 458	Language: Perspectives in Acquisition & Develop	3
SPCH 460	Princ of Speech Pathology	3
SPCH 465	Language Disorders	3
SPCH 469	Adult Aphasia & Related Lang Disorders	3
SPCH electives		3
<b>Foreign Language Requirement</b>		<b>0-4</b>
<b>Requirements in Minor</b>		<b>15-24</b>
<b>General Electives</b>		<b>3-26</b>
<b>Total</b>		<b>124</b>

†Students completing the required program for the BA in Communication Disorders must demonstrate proficiency in a foreign language at or above the second semester college-level. This requirement may be met by a satisfactory score on a recognized examination or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite. A maximum of one course may be counted in the Logic/Language/Semiotics Area.

*COLLEGE OF ARTS & SCIENCES--SPEECH*

The student must attain a cumulative grade-point average of 2.0 or better in courses taken at Winthrop and included in the 36 semester hours of the required program. The student must complete a minimum of 12 semester hours of SPCH courses in residence at Winthrop University.

Majors must attain a GPA of 2.5 or better in SPCH 351, 352, and 355. Majors must have a GPA of 2.0 or better in SPCH 360, 410, 425, 458, 460, 465 and 469. Students are encouraged to repeat courses resulting in a grade of less than C in the above course sequence.

In addition to the 36 semester hours of the required program, the student must select and complete a minor, attaining no less than a 2.0 GPA in the minor. Within the 124 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299. No more than three hours of Cooperative Education Experience can count toward the major.