

The College of Arts and Sciences

Takita F. Sumter, Dean
Robert Prickett, 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 programs, 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, Bachelor of Professional Studies, 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: English, environmental studies, history, individualized studies, mass communication, mathematics, modern languages, philosophy and religion, political science, psychology, social studies education, and sociology.

Bachelor of Professional Studies

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

Bachelor of Social Work

Master of Arts: English, history, and Spanish.

Master of Liberal Arts: liberal arts.

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

Master of Social Work

Specialist in School Psychology

Minors for undergraduate degrees are offered through the College of Arts and Sciences in African American studies; anthropology; applied physics; biology; chemistry; child and youth well-being; civic and public engagement; communication studies; community-based learning; criminal justice; English; film and content production; French; general science; geography; geology; German; gerontology; history; human nutrition; humanities; international and global studies; legal studies; mathematics; medieval studies; peace, justice, and conflict resolution studies; philosophy; philosophy and religion; political science; psychology; religion; social sciences; social welfare; sociology; Spanish; Spanish for law and helping professions; sustainability; women and gender studies; and writing. See the section on Minors, p. 142, for requirements.

Winthrop's undergraduate program in human nutrition is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics. 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.

College of Arts and Sciences Requirements

Foreign Language Requirements: A candidate for a B.A. or B.S. 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 (such as CLEP) or by passing a foreign language course numbered 102 or any foreign language course with 102 as a prerequisite. **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.** (A native speaker is defined as one who has achieved a high level of reading, writing, speaking and listening ability in that language. This would be demonstrated by having completed significant secondary schooling in that language or by having other proof of that level of ability.) **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.**

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 cannot minor in business.

Teacher Certification: Certification is available in the following areas: biology, chemistry (graduate level only), English, French, mathematics, Spanish, and social studies. Students must meet all requirements for admission to and completion of the Teacher Education Program and its core curriculum.

Bachelor of Professional Studies

General Education Courses		Semester Hours
Shared Skills and Proficiencies		
Writing and Critical Thinking (<i>A grade of C- or better is required in these courses</i>)		
WRIT 101	Composition: Introduction to Academic Discourse	3
HMPX 102	Requirement satisfied with major courses PFST 301 and 302	0
CRTW 201	Requirement satisfied with major course PFST 303	0
Oral Communication	See approved list, p. 16; may be met in major	0-3
Technology	See approved list, p. 16; may be met in major	3
Intensive Writing	See approved list, p. 16	3
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators; may be partially met in major	3-6
Humanities and Arts	See approved list, p. 16; must include 2 designators;	6
Quantitative Skills and Natural Science (3 courses)*		9-12
Quantitative Skills	See approved list, p. 16; may be met in major	(3-8)
Natural Science	See approved list, p. 16; may be met in major [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
Subtotal		34-46
Requirements in Major		42
PFST 301	Introduction to Professional Studies	3
PFST 302	Diversity and Collaboration in the Workplace	3
PFST 303	Applied Critical Thinking	3
PFST 401	Professional Identity and Leadership Development	3
PFST 402	Global Environments and Economies	3
PFST 495	Professional Studies Capstone Seminar	3
<i>Choose a Concentration**</i>		
Organizational Operations Concentration		24
ACCT 280	Introduction to Financial Accounting	3
QMTM 205	Quantitative Methods in Business	3
MGMT 321	Management and Leadership	3
MKTG 380	Principles of Marketing	3
Choose 2 courses from the following:		
BADM 250	Legal and Ethical Environment of Business	3
ECON 215	Principles of Microeconomics	3
ECON 216	Principles of Macroeconomics	3
ENTR 373	Introduction to Entrepreneurship	3
MGMT 325	Organizational Theory and Behavior	3
MKTG 381	Consumer Behavior	3
Choose 2 courses from the following:		
MCOM 205, 341, 370, 412	Intro to Mass Com, Advertising Principles	3
	Public Relations Principles, Ethics & Issues in Mass Com	3
PLSC 321	Public Policy and Policy Analysis	3
PSYC 305, 316	Social Psych: Individ & Other People; Indus & Organ Psych	3
SCWK 306	Working with Multi-Cultural Populations	3
SOCL 314, 332, 518	Race & Ethnic Relations; Sociol of Conflict & Conflict Resolu;	3
	Social Organization	3
Health Services Concentration		24
HCMT 200	Introduction to Health Care Management	3
HCMT 302	Health Care Planning & Marketing	3
HLTH 300	Personal and Community Health	3
PSYC 510, SCWK 305, or SOCL 339	Behavior Anal/Behavior Change;	3
	Human Behavior in the Social Environ; Soc of Hlth/Illness	3

COLLEGE OF ARTS & SCIENCES--PROFESSIONAL STUDIES

Choose 4 courses from the following. At least 2 designators required:

BADM 250	Legal and Ethical Environment of Business	3
GRNT/SCWK 300, GRNT/SOCL 304	Intro to Gerontology; Death and Grief as Social Processes	3
HCMT 300, 303, 492	Hlth Care Mgr, Hlth Care Organ/Legal Env, HC Econ/Finan	3
HDFS 450	Family Stress and Resilience	3
HLTH 406, 500, 501, 506, 507	Exercise & Hlth Promotion, Contemp Hlth Prob; Human Sexuality; Women's Health Issues	3
MKTG 380	Principles of Marketing	3
MGMT 321, 325, 365;	Mgmt & Lead, Organ Theory/Behav, Bus Com & Prof Devel	3
NUTR 221, 370	Human Nutrition; Food & Nutrition in Cult Perspect	3
PLSC 324	Health Politics and Policy	3
PSYC 301, 320, 402, 510, 515	Statistics; Racial, Cultural & Ethnic Infl on Ident Devel; Positive Psychology; Behavior Anal/Behavior Change; Health Psychology and Behavioral Medicine	3-4
SCWK 305	Human Behavior in the Social Environment	3
SOCL 316, 319, 339	Soc Res I: Statistics; Study of Population; Soc of Hlth/Illness	3-4
Electives		32-44
Total		120

**Note: Because this is an interdisciplinary major, the two course rule is not in affect for these areas.*

***A maximum of 18 credit hours in courses with designators in the College of Business Administration may be applied to a PFST concentration (ACCT, BADM, CSCI, ECON, ENTR, HCMT, MGMT, MKTG, and QMTH).*

The student must attain a cumulative grade-point average of 2.00 or better in courses taken at Winthrop and included in the 42 semester hours of the required program.

Within the 120 semester hours required for this degree, the student must include a minimum of 40 semester hours in courses numbered above 299.

See pages 15-18 for additional degree requirements.

BIOLOGY**Faculty****Professors**

Eric Birgbauer
 Dwight Dimaculangan, *Chair*
 Kunsiri Grubbs
 Julian Smith III
 Kristi Westover

Associate Professors

Victoria Frost
 Laura Glasscock
 Kathryn Kohl
 Matthew Stern

Assistant Professors

Salvatore Blair
 Lauren Brasington
 Kiyoshi Sasaki
 Jennifer Schafer
 Daniel Stovall

Professors Emeriti

Janice Chism
 Paula Mitchell
 William Rogers

Instructors

Cassie Bell

Adjuncts

Lauren Carrier
 Steven Fields
 Carol Inglis
 Shannon Kissinger
 Anita McCulloch
 Estelle Newton
 Lynn Snyder
 Silvia Wozniak

Bachelor of Science in Biology

The biology major is frequently chosen by students with career interests related to medicine, botany, zoology, molecular biology, environmental and conservation biology, teaching and secondary education in the sciences, and other careers. Qualified Winthrop students in biology are accepted for postgraduate study in many of those fields. Emphasizing a student's capacity to understand and conduct research, students pursuing the B.S. degree can tailor their program beyond the major's core curriculum to meet their specific needs. In addition, the department offers four sub-tracks within the program with more prescribed curricula: 1) B.S. in Biology with a concentration in Biomedical Research; 2) B.S. in Biology with Teacher Certification; 3) B.S. in Biology with a concentration in Medical Technology; and 4) B.S. in Biology with a concentration in Conservation Biology.

The department offers excellent experiential learning opportunities through undergraduate research and internships that are important for students to matriculate into graduate programs, health profession programs, biology-related jobs, etc. Students can conduct undergraduate research for academic credit with faculty mentors in well-equipped research labs and at regional field sites. Students can also earn up to three hours of internship credit towards their biology degree. Internships are available at a variety of institutions and corporations in Rock Hill and surrounding communities.

**Pre-Health Profession Programs with a Bachelor of Science in Biology
 (i.e. Medicine, Veterinary Medicine, Dentistry, Physician Assistant, Pharmacy, Physical Therapy,
 Occupational Therapy, and Genetic Counseling)**

The biology major is ideal for students preparing to enter into a health profession program because it provides a broad background in the natural sciences as well as specific training in essential biological topics related to the medical field. It is the most popular major for students matriculating into health profession programs. For example, more than 50% of all medical students in the United States were biology majors as undergraduates, which is more than three times greater than any other major including the physical and social sciences.

One of the advantages of choosing the biology major is that students can use the courses required for admission to the health profession programs listed above to fulfill their degree requirements in biology. This enables students to simultaneously complete degree requirements and pre-requisites for the programs which is not possible in every major. Students can find information about recommended courses and related topics for the various pre-health professions on the Biology Department website.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with BIOL 480	0
Technology	Met in major with BIOL 300 & 480	0
Intensive Writing	Met in major with BIOL 300	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)		
Quantitative Skills	See approved list, p. 16	3-4
Natural Science	Met in major with BIOL 220/222 or 220/270 and CHEM 105	0
Subtotal		32-36
Requirements in Major (A minimum of 44 hours in BIOL is required.)		64-65
BIOL 202	Freshman Symposium in Biology	1
BIOL 220/222 or 220/270	Prin of Cell & Molecular Biol & lab or SEA PHAGES lab	4-5
BIOL 221/223 or 221/271	Prin in Ecology, Evolu, & Biodiv & lab or SEA-PHAGE Bioinf	4-5
BIOL 300	Scientific Process in Biology	4
BIOL 316 or 317	Principles of Human Genetics, Genetics	3-4
BIOL 480	Integration of Biological Principles	3
BIOL 390, 490	Departmental Seminars	1
Select one course from Areas A, B, and C. Choose an additional course from A, B, or C. At least one of these courses must include a lab		12-16
Area A. Ecology and Evolution		
BIOL 301, 302, 314, 323, 340, 403, 405, 407, 507, 513, 542, 551, 552A or B		
Area B. Cell and Molecular Biology		
BIOL 310, 311, 315, 320, 321, 422, 517, 519, 522, 526, 528, 529, 532, 539, 555, 560		
Area C. Biodiversity and Organismal Biology		
BIOL 303, 304, 305, 306, 307, 308, 309, 505, 508, 510, 511, 518, 524, 525, 570		
Area D. Select additional courses to total 44 hours in BIOL from the above areas and from the following:		5-12
BIOL 275, 371, 440, 450H, 460, 461, 463, 471, 472, 530, 540, 570		
<i>Students must select at least one 500-level BIOL course from among requirements above.</i>		
Required Math and Science Courses		
CHEM 105, 108	General Chemistry	6
MATH 101, 105, 141, 150, 151, 201, 341, or any MATH course with 201 as the pre-requisite (The MATH course used to satisfy the Quantitative Skills Area may not be counted here)		3-4
Area E. Mathematics and Science Electives		11
Must be chosen from: MATH 101, 105, 141, 150, 151, 201, 341, or any MATH course with 201 as the pre-requisite (The MATH course used to satisfy the Quantitative Skills Area may not be counted here); CHEM (104 or any course above 199 except 461, 462, or 463); PHYS (except 101/102); GEOL; GEOG 305, 308, 320, or 501 (only one may be applied toward credit in the major); and QMTH 205, (if MATH 141 not selected)		
Foreign Language Requirement		3-8†
General Electives		11-21
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

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 and 463. The student must complete a minimum of 12 semester hours of BIOL courses in residence at Winthrop University. A maximum of six hours of credit for research may be used toward the total 44 hours of BIOL courses required for the BS degree.

See pages 15-18 for additional degree requirements.

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 87.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with BIOL 480	0
Technology	Met in major with BIOL 300 & 480	0
Intensive Writing	Met in major with BIOL 300	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives		
Social Science	See approved list, p. 16; must include 2 designators 3 hours met in Education Sequence with EDCO 200	3
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)		
Quantitative Skills	See approved list, p. 16	3-4
Natural Science	Met in major with BIOL 220/222 or 220/270 & CHEM 105	0
Subtotal		29-33
Requirements in Major (A minimum of 44 hours of BIOL is required.)		64-66
BIOL 202	Freshman Symposium in Biology	1
BIOL 220/222 or 220/270	Prin of Cell & Molecular Biol & lab or SEA PHAGES lab	4-5
BIOL 221/223 or 221/271	Prin in Ecology, Evolu, & Biodiv & lab or SEA-PHAGE Bioinf	4-5
BIOL 300	Scientific Process in Biology	4
BIOL 307, 308	Human Anatomy and Physiology	8
BIOL 315	Cell Biology	4
BIOL 316 or 317	Principles of Human Genetics, Genetics	3-4
BIOL 480	Integration of Biological Principles	3
BIOL 390, 490	Departmental Seminars	1
BIOL 513	Organic Evolution	3
BIOL 301, 302, 314, 323, 340, 403, 405, 407, 507, 551, 542, 552A or B		3-4
BIOL 303, 304, 305, 306, 309, 505, 508, 510, 511, 518, 524, 525		3-4
BIOL electives to total 44		0-3
CHEM 105 and 108	General Chemistry	6
MATH 101, 105, 141, 150, 151, 201, 341, or any MATH course with 201 as the pre-requisite		3-4
<i>The MATH course used to satisfy the Quantitative Skills Area may not be counted here; must be MATH 141 if MATH 150 not taken.</i>		
PHYS 201, 202 and GEOL 110/113 or 210	General Physics I & II; Geology	11-12
Professional Education Sequence		38
EDCO 101**	Developing Observation and Analysis Skills	1
EDCO 200**	Developmental Sciences and the Context of Poverty	3
EDCO 201**	Supporting the Engl as Sec Lang student in Gen Ed Classrm	2
EDCO 202**	Supporting Exceptional & Gifted Lrnrs in Gen Ed Classroom	2
EDCO 220**	Assessment to Meet Diverse Needs	2
EDCO 305**	Technology in the Inclusive Classroom	2
EDCO 350**	Acad & Social Strat for Estab Inclusive Classrm Climate	3
EDCO 401	Internship: Contextual Factors	1
EDCO 402	Internship: Assessment and Instruction	9
EDCO 410**	Education in a Democracy	2
SCIE 390**, 391**, 393	Intro to Teaching Sci, Prin of Teaching Sci I, Seminar in Sec Sci	5
READ 331, 346	Foundations of Literacy, Content Area Read/Write	6
Foreign Language Requirement		3-8†
Total		134-145

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

**A grade of C or better is required and may not be taken on the S/U basis.

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.

Passage of the PRAXIS Subject Assessment content area examinations is required prior to entry into the professional stage for all candidates in the teacher education program. For the most current PRAXIS information required for test(s) in your content area, visit the South Carolina Department of Education website: <https://ed.sc.gov/educators/certification/>. 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 60-64 hours of the required program. The student must complete a minimum of 12 semester hours of BIOL courses in residence at Winthrop University. 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 and 463. A maximum of six hours of credit research may be used toward the total 44 hours of BIOL courses for the BS degree.

See pages 15-18 for additional degree requirements.

Bachelor of Science in Biology - Certification as a Medical Technologist

Program Director: Dr. Vicky Frost

Students desiring national certification as a Medical Technologist, also known as a Medical Laboratory Scientist, should consult with the department's Medical Technology adviser 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
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication		
Technology	Met in major with BIOL 480	0
Intensive Writing	Met in major with BIOL 300 & 480	0
Constitution Requirement	Met in major with BIOL 300	0
Physical Activity	See approved list, p. 16; may be met by other req	0-3
Thinking Critically Across Disciplines		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)		
Quantitative Skills (MATH 101, 105, 141, 150, 151, 201, or any MATH course with 201 as a pre-requisite)		3-4
Natural Science	Met in major with BIOL 220/222 or 220/270 and CHEM 105	0
Subtotal		32-36
Requirements in Major (A minimum of 44 hours of BIOL is required.)		
BIOL 202	Freshman Symposium in Biology	1
BIOL 220/222 or 220/270	Prin of Cell & Molecular Biol & lab or SEA PHAGES lab	4-5
BIOL 221/223 or 221/271	Prin in Ecology, Evolu, & Biodiv & lab or SEA-PHAGE Bioinf	4-5
BIOL 300	Scientific Process in Biology	4
BIOL 316 or 317	Principles of Human Genetics, Genetics	3-4
BIOL 480	Integration of Biological Principles	3
BIOL 390, 490	Departmental Seminars	1
BIOL 310 and 522	Microbiology, Immunology	8
Select one course from Area A. Choose one additional course from either A, B, or C.		
Area A. Ecology and Evolution		
BIOL 301, 302, 314, 323, 340, 403, 405, 507, 513, 542, 551, 552A or B		
Area B. Cell and Molecular Biology		
BIOL 315, 320, 321, 422, 517, 519, 526, 528, 529, 532, 539, 555, 560		
Area C. Biodiversity and Organismal Biology		
BIOL 303, 304, 305, 306, 307, 308, 309, 505, 508, 510, 511, 518, 524, 525		
Area D. Select additional courses to total 44 hours in BIOL from the above areas and from the following:		
BIOL 275, 371, 440, 450H, 460, 461, 463, 471, 472, 530, 540, 570		
<i>Students must complete at least one 500-level BIOL course from among requirements above.</i>		
Required Math and Science Courses		
CHEM 105, 108	General Chemistry	6

CHEM 301, 302, 304	Organic Chemistry I & II	8
MATH 141		3
Area E. Mathematics and Science electives:		3
Must be chosen from CHEM 313, 314, 523, 524 and 525; CSCI 101 and CSCI 101A, B, and C;		
MATH 101, 105, 150, 151, 201, 341, or any MATH course with 201 as the pre-requisite (the MATH course used to satisfy the Quantitative Skills Area may not be counted here); PHYS (except 101/102); GEOG 305, 308, 320, or 501 (only one may be applied toward credit in the major); GEOL		
Foreign Language Requirement		3-8†
General Electives		12-21
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

The student must complete a minimum of 12 semester hours of BIOL courses in residence at Winthrop University. 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 and 463. A maximum of six hours of credit for research may be used toward the total 44 hours of BIOL courses required for the BS degree.

Students may apply to any NAACLS accredited hospital program in the US. Students should consult with the Med Tech faculty advisor since the specific admission requirements vary among the accredited hospital programs.

Winthrop has an agreement with Carolinas College of Health Sciences in Charlotte, NC, whereby students spend three years at Winthrop taking general, introductory and advanced biology classes. They then attend three semesters at the Carolinas College of Health Sciences (CCHS) leading to certification as a Medical Laboratory Scientist (MLS), which will provide the credentials needed to work in a clinical laboratory setting where they would be able to detect, diagnose and treat human diseases. The advanced science courses completed at CCHS are used to satisfy the remaining required Biology and Math and Science elective coursework for the major. Applicants for admission to the CCHS program must submit evidence of satisfactory completion of the Winthrop coursework for the BS in biology. Interested students should consult with the department chair or the department's Medical Technology adviser for specific details about this program.

See pages 15-18 for additional degree requirements.

Bachelor of Science in Biology - Biomedical Research

This concentration within the biology major is designed to prepare students for admission into post-graduate research programs in the biomedical sciences. Students will complete a year-long research internship.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with BIOL 480	0
Technology	Met in major with BIOL 300 & 480	0
Intensive Writing	Met in major with BIOL 300	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)		
Quantitative Skills	Met in major with MATH 105 or 201	0
Natural Science	Met in major with BIOL 220/222 or 220/270 and CHEM 105	
Subtotal		29-32
Requirements in Major (A minimum of 44 hours of BIOL is required.)		
BIOL 202	Freshman Symposium in Biology	1
BIOL 220/222 or 220/270	Prin of Cell & Molecular Biol & lab or SEA PHAGES lab	4-5
BIOL 221/223 or 221/271	Prin in Ecology, Evolu, & Biodiv & lab or SEA-PHAGE Bioinf	4-5
BIOL 300	Scientific Process in Biology	4
BIOL 307, 308, or 321	Human Anatomy, Human Physiology, Microscopic Anatomy	4
BIOL 310	Microbiology	4

BIOL 315	Cell Biology	4
BIOL 316 or 317	Principles of Human Genetics, Genetics	3-4
BIOL 450H or 471	Selected Topics or Research	3
BIOL 480	Integration of Biological Principles	3
BIOL 390, 490	Departmental Seminars	1
BIOL 517, 519, 522, 526, 529, 530, 532, 539, 555, or 560		3-4
Select one course from Area A		3-4
<i>(If BIOL 321 is chosen from above, choose one additional course from Area C.)</i>		
Area A. Ecology and Evolution		
BIOL 301, 302, 314, 323, 340, 403, 405, 407, 507, 513, 542, 551, 552A or B		
Area B. Cell and Molecular Biology		
BIOL 321, 422, 517, 519, 522, 526, 528, 529, 532, 539, 555, 560		
Area C. Biodiversity and Organismal Biology		
BIOL 303, 304, 305, 306, 307, 308, 309, 505, 508, 510, 511, 518, 524, 525		
Area D. Select additional courses to total 44 hours in BIOL from the above areas and from the following: 0-3		
BIOL 275, 371, 440, 450H, 460, 461, 463, 471, 472, 530, 540, 570		
<i>Student must complete two semesters of undergraduate research. A paid summer research position may count as one semester if approved by the Department Chair. A maximum of six hours of credit for research may be used toward the total 44 hours of BIOL courses required for the BS degree.</i>		
Required Math and Science Courses		
CHEM 105, 108	General Chemistry	6
CHEM 301, 302, 304	Organic Chemistry I & II	8
CHEM 323, 520, or 523/525	Intro to Biochemistry, Essentials of Biochem, Biochem I/Lab	3-5
MATH 105 or 201	Applied Calculus , Calculus I	3-4
MATH 141, 341, 541, 546 or BIOL 570	Statistics	3
PHYS 201 or 211	General Physics I, Physics with Calculus	4
Foreign Language Requirement		3-8†
Electives		0-17
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

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 and 463. The student must complete a minimum of 12 semester hours of BIOL courses in residence at Winthrop University.

See pages 15-18 for additional degree requirements.

Bachelor of Science in Biology-Conservation Biology

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with BIOL 480	0
Technology	Met in major with BIOL 300 & 480	0
Intensive Writing	Met in major with BIOL 300	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)		
Quantitative Skills	See approved list, p. 16	3-4
Natural Science	Met in major with BIOL 220/222 or 220/270 and CHEM 105	0
Subtotal		32-36
Requirements in Major (A minimum of 44 hours of BIOL is required.)		
BIOL 202	Freshman Symposium in Biology	1

COLLEGE OF ARTS & SCIENCES--BIOLOGY CONSERVATION

BIOL 220/222 or 220/270	Prin of Cell & Molecular Biol & lab or SEA PHAGES lab	4-5
BIOL 221/223 or 221/271	Prin in Ecology, Evolu, & Biodiv & lab or SEA-PHAGE Bioinf	4-5
BIOL 300	Scientific Process in Biology	4
BIOL 317	Genetics	4
BIOL 403, 405, or 407	Ecology, Freshwater Ecology, Environ Biol	4
BIOL 513	Organic Evolution	3
BIOL 480	Integration of Biological Principles	3
BIOL 390, 490	Departmental Seminars	1
BIOL 551	Conservation Biology	3
Select courses from among the following to total 3 hours in Conservation Experiential Learning		3
BIOL 370, 450H, 461, 463, 471, 552A, or 552B		
Select one course from Areas B and C.		6-8
Area A. Ecology and Evolution		
BIOL 301, 302, 314, 323, 340, 403, 405, 407, 507, 542, 552A or B		
Area B. Cell and Molecular Biology		
BIOL 310, 311, 315, 320, 321, 422, 517, 519, 522, 526, 528, 529, 532, 539, 555 and 560		
Area C. Biodiversity and Organismal Biology		
BIOL 303, 304, 305, 306, 307, 308, 309, 505, 508, 510, 511, 518, 524, 525		
Area D. Select additional courses to total 44 hours in BIOL from the above areas and from the following:		0-4
BIOL 275, 371, 440, 450H, 460, 461, 463, 471, 472, 530, 539, 540, 570		
Required Math and Science Courses		
CHEM 105, 108	General Chemistry	6
MATH (101, 105, 141, 150, 151, 201, 341, or any MATH course with 201 as a pre-requisite (The MATH course used to satisfy the Quantitative Skills Area may not be counted here.)		3-4
Area E. Mathematics and Science Electives		11
Must be chosen from: MATH 101, 105, 141, 150, 151, 201, 341, or any MATH course with 201 as the pre-requisite (The MATH course used to satisfy the Quantitative Skills Area may not be counted here.); CHEM (104 or any course above 199 except 461, 462, or 463); PHYS (except 101/102); GEOG 305, 308, 320, or 501 (only one may be applied toward credit in the major) GEOL; and QMTH 205 (if MATH 141 not selected).		
Foreign Language Requirement		3-8†
General Electives		11-21
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

A maximum of six hours of credit for research may be used toward the total 44 hours of BIOL courses required for the BS degree.

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 and 463. The student must complete a minimum of 12 semester hours of BIOL courses in residence at Winthrop University.

See pages 15-18 for additional degree requirements.

CHEMISTRY, PHYSICS, GEOLOGY, and the ENVIRONMENT**Faculty****Professors**

Diana L. Boyer
 Clifton P. Calloway
 Maria C. Gelabert
 Nicholas Grosseohme
 James Hanna, Jr.
 Jason C. Hurlbert
 Aaron M. Hartel
 Robin K. Lammi, *Chair*
 Ponn Maheswaranathan
 Pat Owens
 Takita F. Sumter, *Dean*
 Scott Werts

Associate Professors

Fatima Amir
 Gwen M. Daley
 T. Christian Grattan
 Cliff Harris

Assistant Professors

Timea Fernandez
 Lauren Kohut
 Kathie Snyder

Instructor

Athena Detrick

Adjuncts

Marsha Bollinger, *Professor Emeritus*
 Cheryl Dammann
 Heidi Hearne
 Lille-Dunn Holton-McGuinness
 Sam Johnson
 Kristen Kull
 Bryan McFadden
 William McGuinness
 Gregg McIntosh
 Timothy Vowles

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 five degree tracks to tailor their curricula to meet their long-term professional objectives. The ACS chemistry degree track meets American Chemical Society (ACS) requirements for a professional certification in chemistry. The ASBMB Biochemistry track was the nation's first American Society for Biochemistry and Molecular Biology (ASBMB)-Accredited program.

The Health and Chemical Sciences degree track is designed for maximum flexibility to meet a broad array of student interests and needs. Because it allows students to count math and science elective courses toward the chemistry degree, it is ideal for students interested in health professions that do not require undergraduate research, as well as for double-majors and transfer students. The Forensic Chemistry and Pre-Engineering degree tracks prepare students for technical positions in government or industry.

Pre-Health Profession Programs with a Bachelor of Science in Chemistry

(i.e. Medicine, Veterinary Medicine, Dentistry, Pharmacy, Physical Therapy)

Students who wish to prepare for application to health professional programs 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 health professional programs requirements without taking a large number of courses outside the major. In addition, the percentage of chemistry majors applying and being accepted to these programs is higher than observed for most other majors. Programs generally require two semesters of each of the following courses: inorganic chemistry, organic chemistry, biochemistry, 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

		Semester Hours
General Education Courses		
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	See approved list, p. 16; may be met in major with CHEM 552	0-3
Technology	See approved list, p. 16; may be met in major	0-3
Intensive Writing	See approved list, p. 16; may be met in major with CHEM 552	0-3
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)		0
Quantitative Skills	Met in major with MATH 201 and 202	
Natural Science	Met in major with PHYS 201 or 211	
Subtotal		29-41

Requirements in Major: Complete one of five Degree Tracks (Chemistry, Biochemistry, Health and Chemical Sciences, Pre-Engineering, or Forensic Chemistry).

Chemistry Degree Track		65-68
<i>(Students completing this degree track will be ACS-certified chemistry graduates.)</i>		
BIOL 220, 222	Principles of Cell & Molecular Biology	4
MATH 201-202	Calculus I & II	8
PHYS 211, 212	Physics with Calculus I & II	8
CHEM 105, 108	General Chemistry & Lab	6
CHEM 301, 302/304	Organic Chemistry I & II/Lab	8
CHEM 305	Chemical Hygiene and Safety	1
CHEM 312	Introductory Chemometrics	1
CHEM 313, 314	Quantitative Analysis/Lab	4
CHEM 323	Introduction to Biochemistry	3
CHEM 330, 332	Introductory Inorganic Chemistry/Lab	4
CHEM 407-410	Physical Chemistry I & II/Labs	8
CHEM 491, 492, 493, 494	Department Seminars	0
CHEM 495	Senior Seminar in Chemistry	1
<i>Additional Requirements for ACS-certified degree:</i>		
Complete Option A or B below:		9-12
<i>Option A</i>		
CHEM 551-552	Research	6
Complete at least 3 hrs of In-Depth courses:		3-5
CHEM 307, 420, 502/503, 505/506, 523/525, 529, 530, 541, 570, 571		
<i>Option B:</i>		
CHEM 526 OR 570	Adv Techniques in Biochemistry , Chemical Synthesis	2
Two of the following:		8-9
CHEM 502/503, CHEM 505/506, CHEM 523/525		
Foreign Language Requirement		3-8†
General Electives		3-23
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

See pages 15-18 for additional degree requirements.

Biochemistry Degree Track		80-82
<i>(Students completing this degree track will be ACS-certified chemistry and ASBMB Accredited biochemistry graduates.)</i>		
BIOL 220, 222	Principles of Cell & Molecular Biology	4
Three BIOL courses from BIOL 310, 315, 316, 317, or approved advanced BIOL courses	Microbiol, Cell Biol, Human Genetics, Genetics, Molecular Biol	10-12
MATH 201, 202	Calculus I & II	8
PHYS 211, 212	Physics with Calculus I & II	8
CHEM 105, 108	General Chemistry & Lab	6
CHEM 301, 302/304	Organic Chemistry I & II/Lab	8
CHEM 305	Chemical Hygiene and Safety	1
CHEM 312	Introductory Chemometrics	1
CHEM 313/ 314	Quantitative Analysis/Lab	4
CHEM 323	Introduction to Biochemistry	3
CHEM 330, 332	Introductory Inorganic Chemistry	4
CHEM 407-410	Physical Chemistry I & II	8
CHEM 491, 492, 493, 494	Department Seminars	0
CHEM 495	Senior Seminar in Chemistry	1
CHEM 523/525	Biochemistry I/Lab	5
CHEM 524	Biochemistry II	3
CHEM 551, 552	Research	6
Foreign Language Requirement		3-8†
General Electives		0-8
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

See pages 15-18 for additional degree requirements.

Health and Chemical Sciences Degree Track	<i>(Pending Notification to the SC Commission on Higher Education)</i>	67
MATH 201, 202	Calculus I & II	8
BIOL 220, 222	Principles of Cell & Molecular Biology	4
CHEM 105, 108	General Chemistry I & Lab	6
CHEM 301, 302/304	Organic Chemistry I & II/Lab	8
CHEM 305	Chemical Hygiene and Safety	1
CHEM 312	Introductory Chemometrics	1
CHEM 313/314	Quantitative Analysis/Lab	4
CHEM 407-410	Physical Chemistry I & II/Labs	8
CHEM 491, 492, 493, 494	Department Seminars	0
CHEM 495	Senior Seminar in Chemistry	1
CHEM (>299)	Chemistry electives	6
PHYS 211-212	Physics with Calculus I & II	8
or PHYS 201-202	General Physics I & II	
Math or science electives (BIOL, CHEM, CSCI, GEOL, QMTH, PHYS, MATH >299)		12
Foreign Language Requirement		3-8†
General Electives		4-21
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

See pages 15-18 for additional degree requirements.

Pre-Engineering Degree Track		69-71
<i>Students may choose to complete 6-12 hours of optional additional requirements to earn an ACS-certified degree.</i>		
BIOL 220, 222	Principles of Cell & Molecular Biology	4
MATH 201, 202	Calculus I & II	8
MATH 301, 305	Calculus III, Differential Equations	7
CHEM 105, 108	General Chemistry I/Lab	6
CHEM 301, 302/304	Organic Chemistry I & II/Lab	8
CHEM 305	Chemical Hygiene and Safety	1
CHEM 312	Introductory Chemometrics	1
CHEM 313/314	Quantitative Analysis/Lab	4

CHEM 323	Introduction to Biochemistry	3
CHEM 330, 332	Introductory Inorganic Chemistry/Lab	4
CHEM 407-410	Physical Chemistry I & II/Labs	8
CHEM 491, 492, 493, 494	Department Seminars	0
CHEM 495	Senior Seminar in Chemistry	1
CHEM 530 or 523/525	Inorganic Chemistry, Biochemistry I/Lab	3-5
PHYS 211-212	Physics with Calculus I & II	8
PHYS 321	Materials Science	3
Additional Requirements for ACS-certified degree (Optional):		(6-12)
Complete Option A OR Option B below:		
<i>Option A:</i> CHEM 551/552		
<i>Option B:</i> CHEM 526 OR CHEM 570 plus additional lab hours:		
If CHEM 523/525 is taken, add one of CHEM 502/503, CHEM 505/506, 526, 570.		
If CHEM 530 is taken, add one of CHEM 526, CHEM 570 OR add two of CHEM 502/503, CHEM 505/506, CHEM 523/525.		
Foreign Language Requirement		3-8†
General Electives		0-19
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

See pages 15-18 for additional degree requirements.

Forensic Chemistry Degree Track		68
<i>Students may choose to complete 3-6 hours of optional additional requirements to earn an ACS-certified degree.</i>		
BIOL 220, 222	Principles of Cell & Molecular Biology	4
MATH 201, 202	Calculus I & II	8
PHYS 211-212	Physics with Calculus I & II	8
CHEM 105, 108	General Chemistry/Lab	6
CHEM 301, 302/304	Organic Chemistry I & II/Lab	8
CHEM 305	Chemical Hygiene and Safety	1
CHEM 312	Introductory Chemometrics	1
CHEM 313/314	Quantitative Analysis/Lab	4
CHEM 323	Introduction to Biochemistry	3
CHEM 330, 332	Introduction to Inorganic Chemistry	4
CHEM 407-410	Physical Chemistry I & II/Labs	8
CHEM 491, 492, 493, 494	Department Seminars	0
CHEM 495	Senior Seminar in Chemistry	1
CHEM 523/525	Biochemistry I/Lab	5
CHEM 530	Inorganic Chemistry	3
CHEM 502/503	Instrumental Analysis/Lab	4
OR CHEM 505/506	Forensic Analytical Chemistry/Lab	
Additional Requirements for ACS-certified degree (Optional):		(3-6)
CHEM 551/552	Research	6
CHEM 526 OR 570	Adv Techniques in Biochemistry, Chemical Synthesis	2
Foreign Language Requirement		3-8†
General Electives		3-20
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

See pages 15-18 for additional degree requirements.

Bachelor of Arts in Environmental Studies

The Bachelor of Arts degree in Environmental Studies will provide students with a broad introduction to the scientific, social, political, cultural, economic, and policy aspects of environmental issues. B.A. 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
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	See approved list, p. 16; may be met by other req	0-3
Technology	Met in major with GEOG 305 or 308	0
Intensive Writing	Met in major with ENVS 490	0
Constitution Requirement	May be met in major with ECON 103 or PLSC 201	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	Met in major with GEOG 101 or 201	0
Historical Perspectives	See approved list, p. 16; may be met in major	0-3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	Met in the major with ENVS 101 and ECON 103 or 215	0
Humanities and Arts	See approved list, p. 16; must include 2 designators May be partially met in the major	3-6
Quantitative Skills and Natural Science* (3 courses)		
Quantitative Skills	Partially met in the major with MATH 141 or QMTH 205	(0-3)
Natural Science	Partially met in the major with BIOL 221/223 See approved list, p. 16; If 2 courses taken, must be in different group: <i>Physical or Earth</i>].	(0-3)
Subtotal		17-29
Requirements in the Major		
51-54		
ENVS 101	Intro to Environmental Issues	3
ENVS 220	Environmental Career Exploration	1
ENVS 350, 375, or 510	Special Topics, Field Studies in the Environment	3
ENVS 490	Senior Seminar in the Environment	3
BIOL 221/223	Principles of Ecology and Evolution/Lab	4
ECON 103 or 215	Intro to Political Economy, Prin of Microeconomics	3
GEOG 101 or 201	Human Geography, Geog of World Regions	3
GEOG 305 or 308	Intro to Geographic Info Systems, Intro to Geospatial Tech	3
PLSC 201	American Government	3
One course in statistics: MATH 141, QMTH 205, PLSC 350 or PSYC 301		3-4
Environmental experiential learning: ENVS 461, 462, 463, or 495		1-3
<i>Environmental Electives</i> --Select six courses from the following with at least three designators:		18
ANTH 326, 350 (when titled "Food & Culture"), 540, BIOL 309, ECON 343, ENVS 350 (when different titles), 510 (when different titles), GEOG 305, 308, 315, 320, HIST/PEAC 502, PHIL 340, PLSC 321, 325, PSYC 311, SUST 102, 300, MGMT 330		
<i>Science and Math Electives:</i>		3-4
In addition to courses that fulfill Quantitative Skills and Natural Sciences General Education requirements, select one course in BIOL, CHEM, GEOL, MATH, NUTR, PHYS, or SCIE		
Foreign Language		3-8†
Minor		15-24
General Electives		5-34
Total		120

†This requirement may be met by a satisfactory score or a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

*Note: Because this is an interdisciplinary major, the two course rule is not in effect for these areas.

See pages 15-18 for additional degree requirements.

Bachelor of Science in Environmental Sciences

The Bachelor of Science 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.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	See approved list, p. 16; may be met in major	0-3
Technology	Met in major with GEOG 305 or 308	0
Intensive Writing	Met in major with ENVS 490	0
Constitution Requirement	See approved list, p. 16; may be met in major with ECON 103	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16; may be met in major	0-3
Historical Perspectives	See approved list, p. 16; may be met in major	0-3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators;	0-6
May be met in the major		
Humanities and Arts	See approved list, p. 16; must include 2 designators	3-6
May be partially met in the major		
Quantitative Skills and Natural Science* (3 courses)		
Quantitative Skills	Met in major with MATH	0
Natural Science	Met in major with BIOL 220/222 and CHEM 105	0
Subtotal		14-35
Requirements in the Major		62-68
ENVS 101	Intro to Environ Issues	3
ENVS 220	Environmental Career Exploration	1
ENVS 350	Special Topics in the Environment	3
ENVS 490	Senior Seminar in the Environment	3
BIOL 220/222, 221/223	Cell & Molecular Biol; Ecol, Evolu, Biodiversity w/labs	8
CHEM 105/108	General Chem I/Lab	5
GEOG 305 or 308	Intro to Geographic Info Systems, Intro to Geospatial Tech	3
GEOL 110/113	Physical Geol/Lab	4
MATH 101 or 151	Alg & Trig for Calculus, Applied College Algebra	3-4
PHYS 201 or 211	General Physics, Physics with Calculus	4
MATH 141, QMTH 205, PLSC 350 or PSYC 301	Statistics	3-4
Environmental experiential learning: ENVS 461, 462, 463, or 495		1-3
<i>Science/Math Electives</i>		12-16
Select four additional courses numbered above 199 from at least 2 designators in BIOL, CHEM, ENVS 375, 376, GEOL, MATH, NUTR, PHYS, or SCIE (<i>BIOL 300 is recommended.</i>)		
<i>Environmental electives</i>		9
Select three courses with at least two designators from the following:		
ANTH 326, 350, 540	Native Peoples & Environ, Special Topics (when titled Food and Culture), Environmental Justice	
ECON 103 or 215, 343	Polit Econ, Prin of Microecon, Envir Econ	
ENVS 350 or 510 (when different titles)	Special Topics in the Environment	
ENVS 375/376	Field Studies in Environment, lab	
GEOG 101 or 201, 302, 320	Human Geog, World Geog, Economic Geog, Remote Sensing	
GEOG 305, 308, 315	Intro to Geog Info Syst, Intro to Geospatial Tech, Global Sust Dev	
HIST/PEAC 502	Social Movements in US Since 1960	
PHIL 340	Environmental Ethics	
PLSC 321, 325	Public Policy & Policy Analysis, Environmental Politics	
PSYC 311	Ecological Psychology	
SOCL 310	Sociology of Environment	
SUST 102, 300	Intro to Sustainability, Topics in Applied Sustainability	
MGMT 330	Sustainable Business Practices	
Foreign Language Requirement		3-8†
General Electives		9-41
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

*Note: Because this is an interdisciplinary major, the two course rule is not in effect for these areas.

See pages 15-18 for additional degree requirements.

ENGLISH**Faculty****Professors**

Casey Cothran, *Chair*
 Jack DeRochi
 Matthew A. Fike
 Amanda Hiner
 Josephine A. Koster
 Robert G. Prickett
 Kelly Richardson

Instructors

Kara Beasley
 Amanda Campbell
 Amanda Covington
 Bryan Ghent
 Ann Jordan
 Mary Martin
 Evelyne Weeks

Adjuncts

Steven Case
 J. Mae Harmon
 Amanda Stewart
 MacKenzie Vattimo

Associate Professors

Leslie W. Bickford
 Dustin Hoffman
 Allan Nail
 Devon Ralston
 Ephraim Sommers

Bachelor of Arts in English

The Bachelor of Arts in English is designed for those students who wish to combine their love of reading with a close study of the elements of literary analysis. The English degree prepares students for advanced study in literature and/or careers where writing plays a central role.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Critical Reading, Thinking, & Writing	9
Oral Communication	May be met in major or another Gen Ed req	0-3
Technology	May be met in major or another Gen Ed req	0-3
Intensive Writing	May be met in major	0-3
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	Could be met in major by required courses See approved list, p. 16	0-3
Historical Perspectives	Could be met in major by required courses See approved list, p. 16	0-3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	Could be partially met in major by required courses See approved list, p. 16; must include 2 designators	3-6
Quantitative Skills and Natural Science (3 courses)*		
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16; must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth.</i>	(3-8)
<i>*No more than two courses in the major may count toward requirements in these areas</i>		
Subtotal		32-53
Requirements in Major (6 hours must be at the 500 level)		
Foundations:		
ENGL 291	Introduction to the English Major	3
One from ENGL 203, 208, or 211	Maj British Auth, Found of World Lit, Maj American Auth	3
Frameworks:		
ENGL 300, WRIT 300, 350, 502, or 503	Appr to Lit, Rhetorical Theory, Intro to Comp Theory & Pedag, 3 Digital Engl Stud, Creative Writing Theory	

Strategic, Creative and Critical Communication:	
Six hours from ENGL 507, 530, WRIT 300, 307, 311, 316, 350, 351, 366, 367, 431, 432, 433, 465, 500, 501, 502, 507, 510 (if appropriate), 511 (if appropriate), 516, 530, or 566.	6
Critical Reading and Research:	
Nine hours from ENGE 510 (if appropriate), 519; ENGL 203, 208, 211, 300, 305, 307, 308 (if appropriate), 310 (if appropriate), 312, 317, 319, 320 (if appropriate), 323, 324, 325, 330, 333 (if appropriate), 370, 431, 432, 433, 470, 471, 472, 473, 501, 502, 503, 504, 505, 510 (if appropriate), 511, 512, 513, 514, 515, 520, 521, 525, 527, 528, 529, 550; WRIT 300, 500, 510 and 511 (if appropriate)	9
Electives in ENGL, ENGE, or WRIT	9
Capstone:	
ENGL 494	3
Foreign Language Requirement	3-8†
Minor	15-24
General Electives	0-34
Total	120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 14 for more information.

The student must complete a minimum of 12 semester hours of ENGL, ENGE, and WRIT courses in residence at Winthrop University.

Transfer Students bringing in more than 12 hours of ENGL and WRIT credit may be exempted from ENGL 291 by permission of the Chair; they will replace those 3 hours with 3 hours of electives in ENGL, WRIT, or ENGE.

Students seeking admission to the MAT Accelerated Option program with Secondary Certification must include the following classes in their majors: ENGE 519, WRIT 350, ENGL 203, 208, 211, 305, 507, and 530. ENGE 519 and WRIT 350 must be passed with a grade of C or better and may not be taken S/U. Students seeking entry to the MAT program must also complete the requirements of the minor in Educational Studies.

Accelerated BA - MA Program

This option is intended for well-qualified students in the Winthrop BA in English program who will complete up to 9 hours of the work for the MA in English degree program while enrolled in the undergraduate degree program. This option requires completion of 30 hours of approved graduate-level courses. At least half of the work presented for the degree must be 600-level courses.

See pages 15-18 for additional degree requirements.

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
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Critical Reading, Thinking, & Writing	9
Oral Communication	See approved list, p. 16; may be met by other req	0-3
Technology	See approved list, p. 16; may be met by other req	0-3
Intensive Writing	Met in major with WRIT 350	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16; could be met in major	0-3
Historical Perspectives	See approved list, p. 16; could be met in major*	0-3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators; 3 hours met in Education Sequence with EDCO 200	3
Humanities and Arts	Could be partially met in major by required courses See approved list, p. 16; must include 2 designators	3-6
Quantitative Skills and Natural Science (3 courses)*		9-12
Quantitative Skills	See approved list, p. 16	(3-8)

Natural Science	See approved list, p. 15; [Must include a lab science. (3-8) If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	
<i>*No more than two courses in the major may count toward requirements in these areas</i>		
Subtotal		29-47
Requirements in Major		34
Foundations:		
ENGL 291	Introduction to the English Major	3
ENGL 208	Foundations of World Literature	3
Frameworks:		
WRIT 350**	Intro to Comp Theory & Pedagogy	3
Strategic, Creative and Critical Communication:		
ENGL 507, 530	Hist & Devel of Modern Engl; Grammar in Theory/Practice	6
Critical Reading and Research:		
ENGE 519**	Adolescent Literature	3
Six hours from ENGE 510 (if appropriate); ENGL 203, 208, 211, 300, 307, 308 (if appropriate), 310 (if appropriate), 311, 312, 317, 319, 320 (if appropriate), 321, 323, 324, 325, 330, 333 (if appropriate), 370, 431, 432, 433 (if appropriate), 470, 471, 472, 473, 501, 502, 503, 504, 505, 510 (if appropriate), 511, 512, 513, 514, 515, 520, 521, 525, 527, 528, 529, 550; WRIT 300, 500, 510 and 511 (if appropriate)		
ENGL 305	Shakespeare	6
Electives in ENGL, ENGE, or WRIT		3
Capstones:		
ENGE 393 (in professional education sequence) and ENGL 491, Departmental Seminar		7
Professional Education Sequence		40
EDCO 101**	Developing Observation and Analysis Skills	0
EDCO 200**	Developmental Sciences and the Context of Poverty	1
EDCO 201**	Supporting the Engl as Sec Lang student in Gen Ed Classrm	3
EDCO 202**	Supporting Exceptional & Gifted Lrnrs in Gen Ed Classroom	2
EDCO 220**	Assessment to Meet Diverse Needs	2
EDCO 305**	Technology in the Inclusive Classroom	2
EDCO 350**	Acad & Social Strat for Estab Inclusive Classrm Climate	2
EDCO 401	Internship: Contextual Factors	3
EDCO 402	Internship: Assessment and Instruction	1
EDCO 410**	Education in a Democracy	9
ENGE 390**	Junior Field Experience	2
ENGE 391**	Princ of Teaching Engl	3
ENGE 393	Seminar in Secondary English Teaching	3
READ 331**	Foundations of Literacy	1
READ 346**	Content Area Literacy	3
Foreign Language requirement		3-8†
General Electives		0-14
Total		120

**A grade of C or better must be earned and may not be taken on the S/U basis.

†This requirement may be met by a satisfactory score on a recognized proficiency examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

Field hours will be required for WRIT 350, EDCO 200, 201, 202, 305, 401, 402, and 410.

All English Education majors must have a cumulative 2.75 GPA in ENGL, ENGE and WRIT courses prior to the internship. 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. Passage of the PRAXIS II Series content area examinations is required prior to entry into the professional stage for all candidates in the teacher education program. For the most current PRAXIS information required for test(s) in your content area, visit the South Carolina Department of Education website: <https://ed.sc.gov/educators/educator-preparation/educator-preparation-units/educator-preparation-program-admission-examinations/>.

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 34 hours of the required program. The student must complete a minimum of 12 semester hours in the major in residence at Winthrop University.

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

See pages 15-18 for additional degree requirements.

HISTORY**Faculty****Professors**

Gregory S. Crider
J. Edward Lee
Virginia Williams

Assistant Professors

Catherine Chang
Jennifer Dixon-McKnight

Professors Emeriti

James Casada
Rory Cornish
Lynn K. Dunne
Michael L. Kennedy
Louise Pettus
Jason Silverman

Associate Professors

Gregory Bell, *Chair*
L. Andrew Doyle
Margaret Gillikin
Dave Pretty

Adjunct

Jason Doom

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
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	See approved list, p. 16; may be met by other req	0-3
Technology	See approved list, p. 16; may be met by other req	0-3
Intensive Writing	Met in major with HIST 300	0
Constitution Requirement	Met in major with HIST 211 or 212	0
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16 Could be met in major by required courses	0-3
Historical Perspectives	See approved list, p. 16 Could be met in major by required courses	0-3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators Could be partially met in major by required courses	3-6
Quantitative Skills and Natural Science (3 courses)*		
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16; [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
*No more than two courses in the major may count toward requirements in these areas		
Subtotal		32-41
Requirements in the Major		
		33
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 300	Historiography and Methodology	3
HIST 590	Senior Capstone Seminar	3
HIST electives above 299		15
Nine hours must be at the 500 level (including 590) and at least 3 semester hours must be completed from each of the following groupings:		
United States:		
HIST 302, 308, 310, 312, 313, 314, 315, 325, 501, 502, 505, 509, 515, 517, 518, 521, 522, 525, 527		
Europe:		
HIST 344, 345, 346, 347, 360, 540, 539, 542, 545, 547, 548, 549		
Asia, Africa and Latin America:		
HIST 333, 334, 335, 337, 338, 351, 352, 543, 554, 555, 560, 561		

Additional electives above 299 that may, depending on subject matter, count in one of the above groupings:

HIST 350, 355A, B, C, 450, 463, 471/472/473, and 550

Foreign Language Requirement	3-8†
Minor	15-24
General Electives	14-37
Total	120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

Students must complete a minimum of 12 semester hours of HIST courses in residence at Winthrop University.

See pages 15-18 for additional degree requirements.

Bachelor of Arts in Individualized Studies

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	See approved list, p. 16; may be met in major	0-3
Technology	See approved list, p. 16; may be met in major	0-3
Intensive Writing	Met in major with IDVS 490	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16; may be met in major	0-3
Historical Perspectives	See approved list, p. 16; may be met in major	0-3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators; may be met in major	0-6
Humanities and Arts	See approved list, p. 16; must include 2 designators; may be met in major	0-6
Quantitative Skills and Natural Science (3 courses)*		
Quantitative Skills	See approved list, p. 16; may be met in major	0-12 (3-8)
Natural Science	See approved list, p. 16; may be met in major [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
Subtotal		11-50
Requirements in Major**		
IDVS 390	Individualized Studies Methodology	3
IDVS 490	Individualized Studies Project: Capstone	3
Individualized plan of study approved by a review committee which must include at least 18 credit hours above 299.		30 **
Requirements in Minor		
Foreign Language Requirement		3-8†
Electives		2-55
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

*Note: Because this is an interdisciplinary major, the two course rule is not in affect for these areas.

The student must attain a cumulative grade-point average of 2.00 or better in courses taken at Winthrop and included 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 120 semester hours required for this degree, the student must also include a minimum of 40 semester hours in courses numbered above 299.

**To be admitted into the program as a major, the student must submit a program application and plan of study to the Director of the Individualized Studies Program. Consult the program director and program web site for more details on admissions requirements. A student must have successfully completed 30 credit hours and have a GPA of 2.75 or better

before formal admission can take place. Students with a 2.5 or fewer than 30 credits may be admitted at the discretion of the Program Director.

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

See pages 15-18 for additional degree requirements.

Bachelor of Arts in Social Studies Education Certification as Secondary School Teacher

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in Prof Education Sequence with EDCO 401	0
Technology	Met in Prof Education Sequence with EDCO 305	0
Intensive Writing	Met in Prof Education Sequence with SCST 591	0
Constitution Requirement	Met in major with PLSC 201	0
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	Met in major with GEOG 101	0
Historical Perspectives	Met in major with HIST 211	0
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	Met in major with PSYC 101 & ECON 215	0
Humanities and Arts	See approved list, p. 16; must include 2 designators 3 hours met in major with HIST 111, 112 or 113	3
Quantitative Skills and Natural Science (3 courses)*		9-12
Quantitative Skills	See approved list, p. 16; if Economics concentration chosen, must take MATH 105 or 201	(3-8)
Natural Science	See approved list, p. 16; [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
Subtotal		23-26
Core Requirements		39
PLSC 201	American Gov't	3
PLSC 205 or 207	Int'l Politics, Comparative Politics	3
ECON 215, 216	Microeconomics, Macroeconomics	6
GEOG 101;	Human Geography,	3
GEOG 201, 303, 306, 307, or 309	World Regions, Africa, Latin Amer, E Asia, World Events	3
PSYC 101	General Psychology	3
SOCL 101 or 201	Social Problems, Principles of Sociology	3
HIST 211, 212	US History to 1877, US History since 1877	6
2 of HIST 111, 112, 113	World Civ to 950, 950- 1750, Since 1750	6
HIST 344 or 345	European History	3
Concentrations (Choose one)		
Economics		18%
ECON 103	Introduction to Political Economy	3
FINC 211	Personal Finance	3
ECON electives (upper division)		12
Recommended: ECON 331, 345, 348, 357		
History		18%
HIST 300	Historiography and Methodology	3
HIST electives--Choose one course from each of the following categories.		9
US: HIST 302, 308, 310, 312, 313, 314, 315, 325, 501, 502, 505, 509, 515, 517, 518, 521, 522, 525, 527		
Europe: HIST 342, 344, 345, 346, 347, 360, 540, 542, 545, 547, 548, 549		
Asia, Africa, & Latin America: HIST 333, 334, 335, 337, 338, 351, 352, 539, 543, 554, 555, 560, 561		
Choose two additional HIST courses		6
<i>HIST 350, 355C, 450, 463, 471, 472, 550, and 570 may be taken as electives and may be applied to the appropriate grouping of the assigned subject matter.</i>		

COLLEGE OF ARTS & SCIENCES--SOCIAL STUDIES CERTIFICATION

Political Science		18%
PLSC 200	People, Power, & Politics	3
Choose 1 course from each of the following categories		
<i>American Government:</i>	PLSC 202, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 318, 366, 371, 513 or 518	3
<i>Political Theory:</i>	PLSC 351, 352, 353, 355, 356, 551, 553, or 555	3
<i>Public Policy and Administration:</i>	PLSC 316, 317, 319, 320, 321, 323, 324, 325, 504, 508, 512, or 515	3
Choose two additional PLSC courses		
		6
Psychology		18%
Select 3 courses from PSYC 206, 213, 305, 335, 408, 409		
		9
Select 3 PSYC electives		
		9
Sociology and Anthropology		18%
ANTH 101 or 201	Intro to Human Diversity, Intro to Cultural Anthropology	3
ANTH/SOCL 302	Anthropological/Social Theory	3
Choose four additional ANTH/SOCL courses		
		12
Professional Education Sequence		40***
EDCO 101	Developing Observation and Analysis Skills	1
EDCO 200	Developmental Sciences and the Context of Poverty	3
EDCO 201	Supporting the Engl as Sec Lang student in Gen Ed Classrm	2
EDCO 202	Supporting Exceptional & Gifted Lrnrs in Gen Ed Classroom	2
EDCO 220	Assessment to Meet Diverse Needs	2
EDCO 305	Technology in the Inclusive Classroom	2
EDCO 350	Acad & Social Strat for Estab Inclusive Classrm Climate	3
EDCO 401	Internship: Contextual Factors	1
EDCO 402	Internship: Assessment and Instruction	9
EDCO 410	Education in a Democracy	2
READ 331, 346	Found of Literacy-Mid Lev/Sec, Cont Area Read/Write	6
SCST 590, 591, 593	Princ Teaching Soc Studies I & II, Seminar in Soc Stud Educ	7%
Foreign Language Requirement		3-8†
Total		123

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

%Students must receive a C- or better in all SCST core and methods courses and all of their concentration courses.

*Note: Because this is an interdisciplinary major, the two course rule is not in affect for these areas.

***A grade of C or better is required in all EDCO and READ courses. No core course can be taken for S/U credit with the exception of EDCO 401 & 402. Note that field hours will be required for EDCO 200, 201, 202, 305, 350, 401, 402, 410, and SCST 590. EDCO 401 and 402 follow the K-12 public school calendar. More information on all these requirements is included in the course descriptions posted through the Schedule of Courses on the Office of Records and Registration website. 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 Riley College of Education.

Passage of the PRAXIS II Series content area examinations is required prior to entry into the professional stage for all candidates in the teacher education program. For the most current PRAXIS information required for test(s) in your content area, visit <https://ed.sc.gov/educators/certification/>.

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 57 semester hours of the required program. The student must complete a minimum of 12 semester hours of social studies courses in residence at Winthrop University.

See pages 15-18 for additional degree requirements.

HUMAN NUTRITION**Faculty****Professor**Wanda Koszewski, *Chair***Instructor**

Stephanie Nielsen

Adjuncts

Brian Collins

Matthew Edwards

Alexa Espinal

Elizabeth Weikle

Assistant Professors

Jessie Hoffman

Hope Lima

Ashley Licata

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

ACEND Accredited Didactic Program in Dietetics

Students completing Winthrop University's Didactic Program in Dietetics meet or exceed the minimum academic requirements of the Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics. ACEND is a specialized accrediting body recognized by the United States Department of Education. The address and phone number of ACEND are: 120 South Riverside Plaza, Suite 2190, Chicago, IL 60606-6995, 1-800-877-1600 ext 5400. ACEND Didactic Program in Dietetics verification from Winthrop University requires completion of the B.S. degree in Human Nutrition with a minimum grade point average of 3.2 in major courses and an overall minimum grade point average of 3.0. While students may graduate with a B.S. degree in Human Nutrition, only students meeting the above criteria will receive an ACEND Verification Statement, which allows graduates to apply to ACEND accredited dietetic internship programs.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in the major with NUTR 428	0
Technology	See approved list, p. 16	3
Intensive Writing	Met in the major with NUTR 494	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)*		
Quantitative Skills	See approved list, p. 16	(3-4)+
Natural Science	Met in major with CHEM 105 and NUTR 222/223	0
Subtotal		35-39
<i>*No more than two courses in the major may count toward requirements in these areas</i>		
Requirements in Major		77
NUTR 223	The Science of Human Nutrition	3
NUTR 222	Intro to Nutr Lab	1
NUTR 226, 227	Orientation to Dietetics , Medical Terminology	2
NUTR 229	Nutritional Assessment	2
NUTR 231/232	Food Composition, Food Comp lab	4
NUTR 321	Nutrition Metabolism	3
NUTR 371	Food & Nutr Mgmt I	3
NUTR 380	Nutr Educ Theory and Practice	3
NUTR 421	Nutrition Through the Life Span	3
NUTR 423/424	Food Science Principles, Sensory, Objective Eval of Food	4
NUTR 427	Medical Nutrition Therapy I	4
NUTR 428	Community Nutrition	3
NUTR 471	Food & Nutr Mgmt II	3
NUTR 490A	Practicum Experience	1

NUTR 494	Seminar in Human Nutrition	3
NUTR 521	Nutritional Biochemistry & Metabolism	3
NUTR 527	Medical Nutrition Therapy II	4
NUTR 580	Nutrition Counseling	2
BIOL 213, 214, 311	Human Anatomy & Physiology I&II, Microbiology	11
CHEM 104, 105, 108 and 310	Chem & Problem-Solv, Gen Chem I, Lab, Ess of Org Chem	12
MATH 141	Finite, Probability, Statistics	3
Foreign Language Requirement		3-8†
General Electives		0-5
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

+Math 151 recommended for the Quantitative Skills requirement. Students are required to take the Math Placement Test.

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.

See pages 15-18 for additional degree requirements.

Combined Bachelor of Science/Master of Science in Human Nutrition (Accelerated Program)

The Department of Human Nutrition in the College of Arts and Sciences offers a Combined Degree Program in Human Nutrition which also meets the minimum academic requirements of the Academy of Nutrition and Dietetics of eligibility to apply to accredited dietetic internships. The Master of Science degree program at Winthrop University is a 30 hour degree program that provides advanced study in human nutrition for students interested in professional advancement and/or doctoral level studies. The program is designed to foster critical thinking and inquiry and prepares graduates to formulate research questions and evaluate research study results. Graduates are able to discuss practical implications of research findings related to nutritional problems of individuals and groups. Eligible undergraduate students can earn both a bachelor's and master's degree in a combined program format.

Undergraduate students can complete 6 to 9 graduate credits in partial fulfillment of the 30 credits required for the M.S. degree during their senior year. These 6 to 9 credits may also fulfill the minimum dietetic program requirements.

Students interested in the B.S. /M.S. program option must meet the program's eligibility criteria. Students completing the B.S. /M.S. program may apply to Winthrop's Accredited Dietetic Internship and are also eligible for the national application process for dietetic internships, if they meet the department's requirements for receiving a verification statement.

Eligibility Criteria:

Students interested in the B.S./M.S. program option, must be a major in Human Nutrition and meet the program's eligibility criteria which includes the following:

- Students must have established junior-level standing with completion of a minimum of 65 credits and have completed NUTR 421.
- Complete the following prerequisites to the M.S. in Human Nutrition program coursework: Anatomy and Physiology I and II, Organic Chemistry, Microbiology.
- Have a minimum 3.0 cumulative GPA and a 3.2 GPA in NUTR courses and exhibit potential to complete graduate-level coursework in the M.S. degree program.
- Students must apply to this program by May 1 prior to the beginning of their senior year. In the application process, they will identify two 500-level courses that will be applied to the master's degree. The courses must be approved by the graduate director or advisor. The student must receive a minimum grade of B to receive graduate credit for these courses.
- Students must meet the eligibility requirements for the M.S. in Human Nutrition program admission by the completion of their B.S. degree.
- This program is designed for full time students in order to complete the five-year period.

Students wishing to complete the B.S./M.S. option must apply and be recommended by faculty for formal acceptance. Students wishing to complete the program on a part-time basis are advised to plan their program carefully to avoid interruptions in course offerings.

Requirements for the Combined Bachelor of Science/Master of Science Degree

Eligible undergraduate students can earn a combined B.S./M.S. degree; candidates earn 144-147 credits in the combined program. Students who are currently completing this combined degree program must follow the catalog year in which they accepted and enrolled in this program option. Students are required to complete a minimum of 120-123 undergraduate degree credits and 30 graduate-level degree credits of which 6 to 9 credits overlap in partial fulfillment of the combined degree requirements. The Bachelor of Science degree will be awarded upon completion of 120-123 credits, which include the general education and Human Nutrition major requirements.

COLLEGE OF ARTS & SCIENCES--HUMAN NUTRITION/HEALTH PROMOTION
Bachelor of Science in Human Nutrition
Heath Promotion Option

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in the major with NUTR 428	0
Technology	See approved list, p. 16	3
Intensive Writing	Met in the major with NUTR 494	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)*		
Quantitative Skills	See approved list, p. 16	(3-4)
Natural Science	Met in major with CHEM 101 and NUTR 221/222	0
Subtotal		35-39
<i>*No more than two courses in the major may count toward requirements in these areas</i>		
Requirements in Major		70
NUTR 221/222	Human Nutrition, Intro to Nutr Lab	4
NUTR 226, 227	Orientation to Dietetics , Medical Terminology	2
NUTR 229	Nutrition Assessment	2
NUTR 231/232	Food Composition, Food Comp lab	4
NUTR 321	Nutrition Metabolism	3
NUTR 329	Nutrition Wellness	2
NUTR 371	Food & Nutr Mgmt I	3
NUTR 380	Nutrition Education Theory and Practice	3
NUTR 421	Nutrition Through the Life Span	3
NUTR 427	Medical Nutrition Therapy I	4
NUTR 428	Community Nutrition	3
NUTR 471	Food and Nutrition Management II	3
NUTR 490A	Practicum Experience	1
NUTR 494	Seminar in Human Nutrition	3
NUTR 580	Nutrition Counseling and Practice	2
HCMT 200	Health Care Management	3
HLTH 300	Personal and Community Health	3
HLTH elective		3
MATH 141	Finite, Probability, Statistics	3
BIOL 150/151	Elements of Living Systems and lab	4
BIOL 213/214	Anatomy & Physiology I and II	8
CHEM 101 or 104 ⁺	Applying Chemistry to Society, Chem & Prob-Solving Fund	3
Foreign Language Requirement		3-8[†]
General Electives		3-12
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

+Does not meet the Natural Science Gen Ed requirement

See pages 15-18 for additional degree requirements.

MASS COMMUNICATION**Faculty****Professors**

J. William Click, *Professor Emeritus*
 Padmini Patwardhan, *Professor Emerita*
 Guy Reel, *Chair*
 Marilyn S. Sarow, *Professor Emerita*

Associate Professors

Nathaniel Fredrick II
 Aimee Meader
 William Schulte

Assistant Professor

Joseph Kasko

Instructors

Mark S. Nortz
 Bonnye Stuart

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 to a professional level of competence; and edit and produce, in printed, broadcast, and online form, all while meeting standards of professional ethics.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with SPCH 201	0
Technology	Met in major with MCOM 226 & 230	0
Intensive Writing	Met in major with MCOM 412	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16; may be met in major	0-3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators May be partially met in major	3-6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science* (3 courses)		
Quantitative Skills	See approved list, p. 16; may be met in major	(0-8)
Natural Science	See approved list, p. 16; [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
*No more than two courses in the major may count toward requirements in these areas		
Subtotal		32-44
Requirements in Major (C- or higher required in all MCOM courses)		
SPCH 201	Public Speaking	3
CSCI 101B	Using Microsoft Excel	0.5
MATH 101, 150 or 151; MATH 141	Alg & Trig for Calculus; Intro Discrete Math, Applied College Alg; Finite Probability & Statistics	6
MCOM 205	Intro to Mass Communication	3
MCOM 226	Multimedia Storytelling & Production	3
MCOM 230	Foundations of Digital Media	3
MCOM 241+	Media Writing	3
MCOM 301	Mass Comm Theory & Research	3
MCOM 310	Mass Media Law	3
MCOM 346	Principles of Television Production	3
MCOM 412	Ethics & Issues in Mass Comm	3
MCOM 461-463 or 464	Mass Comm Internship or Practicum	1-3
MCOM 499	Senior Portfolio	1
<i>Chose one of the following interests:</i>		
Broadcast interest:		
MCOM 325	Broadcast Journalism	3
MCOM 425	Advanced Broadcast Journalism	3

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MCOM 348, 441, or 446	Broadcast Performance, Multimedia Reporting, Adv TV Prod	3
MCOM or IMCO elective		3
Journalism Interest:		
MCOM 325 or 348	Broadcast Journalism or Broadcast Performance	3
MCOM 330	Convergent Journalism	3
MCOM 441	Multimedia Reporting of Public Issues	3
MCOM or IMCO Elective		3
Digital Sports Production Interest		
MCOM 210	Introduction to Sports Production	1
MCOM 211	Live Production I	1
MCOM 212	Live Production II	1
MCOM 309	Social Media & Promotion	3
MCOM 312	Digital Sports Producing	3
MCOM 410	Digital Sports Directing	3
Foreign Language Requirement		3-8†
Minor		15-24
General Electives		0-22.5
Total		120

†This requirement may be met by a satisfactory score on a recognized proficiency examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

The mass communication major is limited to 40 hours of MCOM courses. Students who exceed 40 hours in MCOM will not be allowed to apply those additional hours toward the 120 hours required for the degree program.

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 must be taken at Winthrop or at an ACEJMC accredited institution. Students must complete at least 72 credit hours outside of MCOM.

See pages 15-18 for additional degree requirements.

Bachelor of Science in Integrated Marketing Communication

Students majoring in integrated marketing communication are interested in careers in the communication professions that support the strategic promotion 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 promotional communication messages and materials in printed, electronic or multimedia form, all while meeting standards of professional ethics.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with SPCH 201	0
Technology	Met in major with MCOM 226 and 230	0
Intensive Writing	Met in major with IMCO 471	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16; could be met in major	0-3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators May be partially met in major	3-6
Quantitative Skills and Natural Science* (3 courses)		6-8
Quantitative Skills	See approved list, p. 16; May be partially met in major	0-4
Natural Science	See approved list, p. 16; [Must include a lab science. If 2 courses taken, must be in 2 different groups: Life, Physical, Earth].	(3-8)
Subtotal		29-40

*No more than two courses in the major may count toward requirements in these areas

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Requirements in Major (C- or higher required in all IMCO, MCOM, MGMT & MKTG courses)	63.5 65.5
SPCH 201 Public Speaking	3
MATH 151 Applied College Algebra	3
Visual Arts	3
ARTS 305, 324, DESF 222, VCOM 258, 262, 354, 392^	
Business	18.5
CSCI 101B Microsoft Excel	0.5
QMTM 205 Business Statistics	3
MGMT 321 Management & Leadership	3
MKTG 380 Principles of Marketing	3
MKTG 381 Consumer Behavior	3
MKTG 385 Marketing Research	3
One from ACCT 280, DIFD 141, ENTR 373, MGMT 220+, MKTG 387, 581	3
Mass Communication/Integrated Marketing	36-38
IMCO 105 Intro to Integrated Marketing Communication	1
IMCO 341 Advertising Principles	3
IMCO 349 Advertising Copy and Layout	3
IMCO 370 Public Relations Principles	3
IMCO 471 Public Relations Writing and Production	3
IMCO 475 Senior Seminar in Integrated Marketing Communication	3
MCOM 226 Multimedia Storytelling & Production	3
MCOM 230 Foundations of Digital Media	3
MCOM 241** Media Writing	3
MCOM 310 Mass Media Law	3
One of MCOM 461 or 462 or 463 Mass Comm Internship	1-3
MCOM 499 Senior Portfolio	1
MCOM elective above 299	6
Foreign Language Requirement	3-8†
General Electives	6.5-24.5
Total	120

†This requirement may be met by a satisfactory score of a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

^Subject to approval by MCOM department chair and IMC program coordinator

**MCOM 241 must be taken at Winthrop or at an ACEJMC accredited institution.

*Requires additional pre-requisite of CSCI 101 and 101B and MATH 101, 105, 151, or 201.

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.

The integrated marketing communication major is limited to 36 hours of MCOM and IMCO courses and 30 hours of business administration courses (excluding CSCI, ECON, and QMTH as prescribed by major). Students who exceed these maxima will not be allowed to apply those additional hours toward the required degree program. An IMCO major may minor in business administration only with prior approval.

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, integrated marketing communication, mass communication, marketing and management will not apply toward the major and will not apply toward the degree if they exceed 36 hours in MCOM and IMCO or 30 hours in business administration. Students must complete at least 72 hours outside of MCOM.

See pages 15-18 for additional degree requirements.

MATHEMATICS**Faculty****Professors**

Kristen Abernathy, *Chair*
 Thomas W. Polaski
 Frank B. Pullano

Instructors

Stephanie Herring
 Jane Wilkes

Adjuncts

Brian Hipp
 Christopher Howle
 Julie Ratcliff
 Lesley Reel
 Suzy Tolson
 Susie Varnadore

Associate Professors

Zachary Abernathy
 Duha Hamed
 Arran Hamm
 Jessica Hamm
 Trent Kull

Bachelor of Arts in Mathematics

The Bachelor of Arts in Mathematics program is designed to provide a broad introduction to the study of mathematics and its sub-fields and to allow students to pursue a minor in a related field of study. This program is the more flexible option for students wishing to complete combined majors and equips students to follow a variety of post-college paths.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with MATH 400	0
Technology	Met in major with CSCI 151	0
Intensive Writing	Met in major with MATH 400	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)		
Quantitative Skills	Met in major with MATH 201 and 202	0
Natural Science	See approved list, p. 16; must include a lab science.	3-4
Subtotal		32-36
Requirements in the Major		
MATH 201*, 202*, & 301	Calculus I, II, & III	12
MATH 300	Linear Algebra	3
MATH 310	Mathematical Reasoning	3
MATH 341	Statistical Methods	3
MATH 370	Mathematical Modeling	3
MATH 400	Senior Seminar	3
MATH 311 or 351	Real Analysis, Introduction to Modern Algebra	3
MATH courses above 300 (excluding MATH 393 & 546)		3
MATH courses above 500 (excluding MATH 546)		3
CSCI 151, 207	Overview of Comp Sci, Intro to Comp Sci I	7
MAED 200, 400	Intro to Mathematica, Assessment Capstone	1
Minor		15-24
Foreign Language Requirement		3-8†
General Electives		8-26
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

*A grade of C- or better required

The student must complete a minimum of 12 semester hours of MATH courses in residence at Winthrop University. No more than three hours of Academic Internship in mathematics (MATH 461 or 463) can count toward the major. Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

See pages 15-18 for additional degree requirements.

Bachelor of Arts in Mathematics - Certification as Secondary School Teacher

The Bachelor of Arts in Mathematics with certification program is designed to provide a broad introduction to the study of mathematics and its sub-fields while providing a path for certification for mathematics teaching in grades 9 through 12. This program equips students to teach the variety of mathematics courses offered at the high school level and to communicate the connections between various mathematical ideas in a manner appropriate for high school students.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in Education Sequence with EDCO 401	0
Technology	Met in major with CSCI 151	0
Intensive Writing	Met in Education Sequence with MAED 548	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives		
Social Science	See approved list, p. 16; must include 2 designators 3 hours met in Education Sequence with EDCO 200	3
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)		
Quantitative Skills	Met in major with MATH 201 & 202	0
Natural Science	See approved list, p. 16; Must include a lab science.	3-4
Subtotal		29-33
Requirements in Major		
		44
MATH 201*, 202*, 301	Calculus I, II, III	12
MATH 300*	Linear Algebra	3
MATH 310	Mathematical Reasoning	3
MATH 341	Statistical Methods	3
MATH 351	Introduction to Modern Algebra	3
MATH 370	Mathematical Modeling	3
MATH 520*	Foundations of Geometry	3
MATH courses above 300 (excluding MATH 393 & 546)		6
CSCI 151, 207	Overview of Comp Sci, Intro to Comp Sci I	7
MAED 200, 400	Intro to Mathematica, Assess Capstone	1
Professional Education Sequence		
		40%
EDCO 101	Developing Observation and Analysis Skills	1
EDCO 200	Developmental Sciences and the Context of Poverty	3
EDCO 201	Supporting the Engl as Sec Lang student in Gen Ed Classrm	2
EDCO 202	Supporting Exceptional & Gifted Lnrs in Gen Ed Classroom	2
EDCO 220	Assessment to Meet Diverse Needs	2
EDCO 305	Technology in the Inclusive Classroom	2
EDCO 350	Acad & Social Strat for Estab Inclusive Classrm Climate	3
EDCO 401	Internship: Contextual Factors	1
EDCO 402	Internship: Assessment and Instruction	9
EDCO 410	Education in a Democracy	2
MAED 393	Seminar in Mathematics	1
MAED 591*, 548	Prin of Teach Math, Sec Math Curr	6
READ 331, 346	Foundation of Literacy, Content Area Read/Writ	6
Foreign Language Requirement		
		3-8^f
General Electives		
		0-4
Total		120-125

^fThis requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

* A grade of C- or better is required.

%A grade of C or better is required in all EDCO and READ courses. These courses may not be taken on the S/U basis with the exception of EDCO 401 and 402. Field hours will be required for MAED 591, EDCO 200, 201, 202, 305, 401, 402, and 410. EDCO 401 and 402 follow the K-12 public school calendar.

All Mathematics Education majors must have a C- or better in MATH 201, 202, 300, and 520 prior to taking EDCO 401.

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. Passage of the PRAXIS II Series content area examinations is required prior to entry into the professional stage for all candidates in the teacher education program. For the most current PRAXIS information required for test(s) in your content area, visit the South Carolina Department of Education website: <https://ed.sc.gov/educators/certification/>

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 44 hours of the required program. The student must complete a minimum of 12 semester hours in the major in residence at Winthrop University. No more than three hours of Academic Internship in Mathematics (MATH 461 or 463) can count toward the major. *Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.*

See pages 15-18 for additional degree requirements.

Bachelor of Science in Mathematics

The Bachelor of Science in Mathematics program is designed to provide a broad introduction to the study of mathematics and its sub-fields and to give students the opportunity to master advanced material in mathematics and allied disciplines. This program equips students to follow a variety of post-college paths and is specifically designed to prepare students for graduate work in mathematics.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with MATH 400	0
Technology	Met in major with CSCI 151	0
Intensive Writing	Met in major with MATH 400	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)		
Quantitative Skills	Met in major with MATH 201 and 202	0
Natural Science	See approved list, p. 16; must include a lab science. (PHYS 211 recommended)	3-4
Subtotal		32-36
Required Program		
MATH 201*, 202*, 301	Calculus I, II, & III	12
MATH 300	Linear Algebra	3
MATH 310	Mathematical Reasoning	3
MATH 311	Real Analysis	3
MATH 341	Statistical Methods	3
MATH 351	Introduction to Modern Algebra	3
MATH 370	Mathematical Modeling	3
MATH 400	Senior Seminar	3
MATH electives above 300 (excluding MATH 393 and 546)		12
MATH courses above 500 (excluding MATH 546)		6
MAED 200, 400	Intro to Mathematica, Assessment Capstone	1
CSCI 151, 207, 208	Overview of Comp Sci, Intro to Comp Sci I& II	11
Foreign Language Requirement		3-8†
General Electives		13-22
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

*A grade of C- or better is required.

The student must complete a minimum of 12 semester hours of MATH courses in residence at Winthrop University. No more than three hours of Academic Internship in Mathematics (MATH 461 or 463) can count toward the major.

See pages 15-18 for additional degree requirements.

Bachelor of Science in Mathematics - Certification as Secondary School Teacher

The Bachelor of Science in mathematics program with certification is designed to provide a broad introduction to the study of mathematics and its sub-fields, to give students the opportunity to master advanced material in mathematics and allied disciplines, and to provide a path for certification for mathematics teaching in grades 9 through 12. This program equips students to teach the variety of mathematics courses offered at the high school level and to communicate the connections between various mathematical ideas in a manner appropriate for high school students.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in Education Sequence with EDCO 401	0
Technology	Met in major with CSCI 151	0
Intensive Writing	Met in Education Sequence with MAED 548	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives		
Social Science	See approved list, p. 16; must include 2 designators 3 hours met in Education Sequence with EDCO 200	3
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)		
Quantitative Skills	Met in major with MATH 201 & 202	0
Natural Science	See approved list, p. 16; Must include a lab science.	3-4
Subtotal		29-33
Requirements in Major		
		60
MATH 201*, 202*, & 301	Calculus I, II, & III	12
MATH 300	Linear Algebra	3
MATH 310	Mathematical Reasoning	3
MATH 311	Real Analysis	3
MATH 341	Statistical Methods	3
MATH 351	Introduction to Modern Algebra	3
MATH 370	Mathematical Modeling	3
MATH 520*	Foundations of Geometry	3
MATH electives above 300 (excluding MATH 393 and 546)		12
MATH courses above 500 (excluding MATH 546)		3
MAED 200, 400	Intro to Mathematica, Assess Capstone	1
CSCI 151, 207, 208	Overview of Comp Sci, Intro to Comp Sci I& II	11
Professional Education Sequence		
		40[‡]
EDCO 101	Developing Observation and Analysis Skills	1
EDCO 200	Developmental Sciences and the Context of Poverty	3
EDCO 220	Assessment to Meet Diverse Needs	2
EDCO 201	Supporting the Engl as Sec Lang student in Gen Ed Classrm	2
EDCO 202	Supporting Exceptional & Gifted Lrnrs in Gen Ed Classroom	2
EDCO 305	Technology in the Inclusive Classroom	2
EDCO 350	Acad & Social Strat for Estab Inclusive Classrm Climate	3
EDCO 401	Internship: Contextual Factors	1
EDCO 402	Internship: Assessment and Instruction	9
EDCO 410	Education in a Democracy	2
MAED 393, 548, 591*	Semin in Math Ed, Sec Math Curr, Prin of Teaching Math	7
READ 331, 346	Foundation of Literacy, Content Area Read/Writ	6
Foreign Language Requirement		3-8[‡]
Total		132-141

[‡]This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

*A grade of C or better is required in all EDCO and READ courses. These courses may not be taken on the S/U basis with the exception of EDCO 401 & 402 and MAED 393 & 548. Note that field hours will be required for MAED 591, EDCO 200, 201, 202, 305, 401, 402 and 410. EDCO 401 and 402 follow the K-12 public school calendar.

* A grade of C- or better is required.

All Mathematics Education majors must have a C- or better in MATH 201, 202, 300, and 520 prior to taking EDCO 401. 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. Passage of the PRAXIS II Series content area examinations is required prior to entry into the professional stage for all candidates in the teacher education program. For the most current PRAXIS information required for test(s) in your content area, visit the South Carolina Department of Education website: <https://ed.sc.gov/educators/certification/>

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 60 hours of the required program. The student must complete a minimum of 12 semester hours in the major in residence at Winthrop University. No more than three hours of Academic Internship in Mathematics (MATH 461 or 463) can count toward the major.

See pages 15-18 for additional degree requirements.

Bachelor of Arts in Data Science

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with DSCI 402	0
Technology	Met in major with CSCI 207/327	0
Intensive Writing	Met in major with CSCI 327	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science (3 courses)		
Quantitative Skills	Met in major with MATH 201 and 202	0
Natural Science	See approved list, p. 16; must include a lab science.	3-4
Subtotal		32-36
Requirements in the Major		
MAED 200	Introduction to Mathematica	1
MATH 201*, 202	Calculus I, II	8
MATH 300	Linear Algebra	3
MATH 341	Statistical Methods	3
MATH 544	Regression Modeling	3
CSCI 207*, 208*	Intro to Comp Sci I & II	8
CSCI 210	Programming Tools	1
CSCI 271	Algorithm Analysis and Data Structures	4
CSCI 327	Social Implications of Computing	3
CSCI 355	Database Processing	3
DSCI 101	Data Science Seminar	1
DSCI 201	Introduction to Data Science	3
DSCI 401	Data Mining	3
DSCI 402	Data Science Capstone	3
DSCI elective above 299		3
Minor		15-24
Foreign Language Requirement		3-8[†]
General Electives		3-20
Total		120

[†]This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

*A grade of C- or better required

See pages 15-18 for additional degree requirements

POLITICAL SCIENCE,**Faculty****Professors**

Adolphus G. Belk, Jr.
 Jennifer Leigh Disney, *Chair*
 Scott Huffmon
 Kristin Beise Kiblinger
 Michael Lipscomb
 M. Gregory Oakes

Assistant Professors

Hye-Sung Kim
 Brandon Ranallo-Benavidez

Associate Professors

William P. Kiblinger
 David Meeler

Adjuncts

Dale C. Hathaway
 John Holder
 Katarina Moyon
 Meredith -Joy Petersheim

Professors Emeriti

Timothy Boylan
 Houston Craighead
 William W. Daniel
 Peter Judge
 Karen Kedrowski
 Stephen S. Smith
 Christopher Van Aller
 Melford A. Wilson, Jr.

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, national and international organizations. A large percentage of our graduates go to graduate or law school.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	May be met in major with PLSC 260	0-3
Technology	See approved list, p. 16	3
Intensive Writing	Met in major with PLSC 490	0
Constitution Requirement	Met in major with PLSC 201	0
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16	0-3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators	3-6
Humanities and Arts	See approved list, p. 16; must include 2 designators	3-6
Quantitative Skills and Natural Science* (3 courses)		
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16; [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
<i>*No more than two courses in the major may count toward requirements in these areas</i>		
Subtotal		35-44
Required Program		
33		
PLSC 201 (C- or better required)	American Government	3
PLSC 350	Scope and Methods	3
PLSC 490	Sr Capstone	3
American Government		
Select from PLSC 202, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 366, 371, 513, or 518		3
Comparative Politics		
Select from PLSC 207, 332, 335, 336, 337, 338, 345, 475, 505, or 507		3
International Relations		
Select from PLSC 205, 260, 504, 506, 508, or 530		3
Political Theory		
Select from PLSC 351, 352, 353, 355, 356, 551, 553, or 555		3
Public Administration/Policy		

Select from PLSC 316, 317, 319, 320, 321, 323, 324, 325, 512, or 515	3
Experiential Learning Requirement	0-3
Select from PLSC 260, 307, 470, 471, 472, 473, 475, 500, 501, 502, 503 or 514 (Course may also be used to meet another degree requirement.)	
PLSC electives (to total a minimum of 33 hours in PLSC)	9-12
Foreign Language Requirement	3-8†
Minor	15-24
General Electives	11-34
Total	120

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 may earn a total of 3 hours of internship credit (471, 472, 473).

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

The student must complete a minimum of 12 semester hours of PLSC courses in residence at Winthrop University.

See pages 15-18 for additional degree requirements.

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.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	See approved list, p. 16; may be met by other req	0-3
Technology	See approved list, p. 16	3
Intensive Writing	Met in major with PHIL/RELG 495	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16	0-3
Historical Perspectives	See approved list, p. 16	0-3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators	0-6
Humanities and Arts	See approved list, p. 16; must include 2 designators	0-6
Quantitative Skills and Natural Science* (3 courses)		9-12
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16 [Must include a lab science. If 2 courses taken, must be in 2 different groups: Life, Physical, Earth].	(3-8)
*No more than two courses in the major may count toward requirements in these areas		
Subtotal		35-47
Requirements in Major		12
RELG 101 or PHIL 101	Intro to Religious Studies, Intro to Philosophy	3
PHIL 220 or 225 or 371	Logic & Language, Symbolic Logic, LSAT Logic	3
PHIL 390 or RELG 390	Philosophy of Religion	3
PHIL 495 or RELG 495	Senior Seminar on Methods & Resrch in Philosophy/Religion	3
Select from one of three tracks:		
A. Philosophy Track		18
PHIL courses above 299		12
PHIL or RELG electives at any level		6
B. Religious Studies Track		18
RELG courses above 299		12
RELG or PHIL electives at any level		6

C. Combined Track	18
PHIL or RELG electives above 299	12
PHIL or RELG electives at any level	6
Foreign Language	3-8†
Minor	15-24
General Electives	14-37
Total	120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

The student must complete a minimum of 12 semester hours of PHIL and/or RELG courses in residence at Winthrop University.

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

See pages 15-18 for additional degree requirements.

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. Christian Grattan, Dr. Nick Grossoeheme, Dr. Aaron Hartel, Dr. Jason Hulbert, Dr. Kathryn Kohl, 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. Visit the Health Professions Connection for more information about pursuing health professions: <https://www.winthrop.edu/hpc/>.

Pre-Engineering Program

Adviser: Dr. Fatima Amir, Dr. Maria Gelabert, Dr. Ponn Maheswaranathan

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

1. 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.

2. 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. Adolphus Belk, Jr.

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 adviser 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 *Preparing for Law School* (<https://www.winthrop.edu/uploadedFiles/cas/politicalscience/PreparingforLawSchool-ABJR.pdf>).

Pre-Medical

Advisory Committee: Dr. Dwight Dimaculangan, Dr. Laura Glasscock, Dr. Christian Grattan, Dr. Nick Grossoeheme, Dr. Aaron Hartel, Dr. Jason Hurlbert, Dr. Wanda M. Koszewski, Dr. Julian Smith, Dr. Matthew Stern, Dr. Takita F. Sumter, and Dr. Janet Wojcik.

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, biochemistry, 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. Visit the Health Professions Connection for more information about pursuing health professions: <https://www.winthrop.edu/hpc/>.

Pre-Pharmacy

Advisers: Dr. Eric Birgbauer, Dr. Christian Grattan, Dr. Nick Grossoeheme, Dr. Aaron Hartel, Dr. Jason Hurlbert, and Dr. Takita F. Sumter

A student who wishes to prepare for application to 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 University of South Carolina College of Pharmacy include 8 hours of general chemistry, 8 hours of organic chemistry, 6 hours of physics, 3 hours of calculus, 3 hours of statistics, 8 hours of biology, 6 hours of anatomy and physiology, 9 hours of liberal arts electives, 6 hours of English composition and literature and 3 hours of economics, psychology and verbal skills. The most important requirement is that students maintain a B+ average on all science courses. Visit the Health Professions Connection for more information about pursuing health professions: <https://www.winthrop.edu/hpc/>.

Pre-Seminary

Adviser: Dr. William Kiblinger

A student who wishes to prepare for admission to a seminary program should have a well-rounded undergraduate education that emphasizes critical thinking skills, a capacity for close and careful reading, and a facility with written and oral communication skills. The Bachelor of Arts degree program in Philosophy & Religion at Winthrop highlights the development of these skills. Courses in the program provide essential elements for a student to prepare for graduate seminary work in theology and biblical studies.

Seminary admissions requirements vary depending on denomination, affiliation, and the student's interests (counseling, pastoring, chaplaincy, type of degree, etc.). The department offers pre-seminary advising to help students identify preferences and determine how best to structure their undergraduate program for seminary success.

Pre-Physical Therapy

Advisers: Dr. Dwight Dimaculangan, Dr. Christian Grattan, Dr. Nick Grossoeheme, Dr. Jason Hurlbert, Dr. Alice McLaine, Dr. William Rogers, Dr. Janet Wojcik

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. Winthrop also has an agreement with the physical therapy program at Methodist University in Fayetteville, NC that provides five guaranteed interviewed slots and two admission slots for Winthrop University students. Contact the Biology Department for application guidelines. Visit the Health Professions Connection for more information about pursuing health professions: <https://www.winthrop.edu/hpc/>.

Pre-Veterinary

Advisers: Dr. Christian Grattan, Dr. Nick Grossoeheme, Dr. Aaron Hartel, Dr. Jason Hurlbert, 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. Visit the Health Professions Connection for more information about pursuing health professions: <https://www.winthrop.edu/hpc/>.

Other Pre-Professional Health Studies

Adviser: Dr. Dwight Dimaculangan, Dr. Wanda M. Koszewski, Dr. Janet Wojcik, and Dr. Matthew Stern

Students may prepare themselves for application to programs in other health-related professions, such as nursing, occupational therapy, optometry and podiatry. Persons interested in these fields should consult the adviser for specific details. Visit the Health Professions Connection for more information about pursuing health professions: <https://www.winthrop.edu/hpc/>.

PSYCHOLOGY**Faculty****Professors**

Gary L. Alderman
Cheryl Fortner-Wood
Matthew Hayes
Donna Nelson
Darren Ritzer, *Interim Chair*
Jeff Sinn
Merry Sleight

Associate Professors

Tara Collins
Melissa Reeves
Sarah Reiland

Assistant Professors

Giancarlo Anselmo
Kathleen West

Instructor

Mary McKemy

Professors Emeriti

Kathy Lyon
Antigo D. Martin-Delaney
Joseph S. Prus

Bachelor of Arts in Psychology

Psychology is the scientific study of behavior and mental processes. Psychology majors at Winthrop acquire a broad range of knowledge and skills consistent with both the University's general education goals and the American Psychological Association's *Undergraduate Psychology Learning Goals*. Recent psychology graduates have obtained employment in a wide variety of fields such as health and human services, social services, business, and education, and/or pursued advanced preparation in various specialties of psychology as well as in medicine, law, business, education, and other fields.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	See approved list, p. 16; may be met by other req	0-3
Technology	See approved list, p. 16	3
Intensive Writing	Met in major with PSYC 302	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators 3 hours met in major with PSYC 101	3
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science* (3 courses)		
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16 [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
*No more than two courses in the major may count toward requirements in these areas		
Subtotal		38-47
Requirements in Major		
		36
Foundations--PSYC 101**, 104, 198	Gen Psych, Entry to Psyc Major, Psyc as Discipline & Profes	4
Experimental Sequence--PSYC 301**, 302**	Statistics & Research Methods	8
PSYC 303	Ethics in Psychological Research	0
SR Capstone Exper--PSYC 400, 463 or 498	Hist & Sys of PSYC, Internship, SR Seminar	3
PSYC 404	Exit from the Psych Major	0

Core Courses--Choose 3 of: PSYC 206, 213, 305, 335, 408, 409	9
PSYC Electives (courses numbered above 299)	12
Foreign Language Requirement	3-8†
Minor	15-24
General Electives	5-28
Total	120

**Must attain a grade of C- or higher.

†This requirement may be met by a satisfactory score on a recognized proficiency examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

Not more than 42 semester hours in PSYC may be applied toward the Bachelor of Arts degree. See page 14 for more information.

Major Specific Notes:

- The student must complete a minimum of 12 semester hours of PSYC courses in residence at Winthrop University. No more than three hours of Field Experience or Academic Internship (PSYC 340 or 463) can count toward the major. A student may receive up to 3 semester hours for PSC 471 and/or 472 toward the major, and up to 6 semesters hours of PSYC 471 and/or 472 toward the BA.
- Students are strongly encouraged to take PSYC 104 during their first semester as psychology majors. 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.
- Students **changing their majors from Biology to Psychology** who have completed BIOL 300 with a grade of C- or better, are not required to complete PSYC 302 & 303. **Dual majors** in Psychology and Biology should complete only one of the two required experimental courses (PSYC 302 & 303 or BIOL 300).
- Students changing their majors from **Sociology to Psychology** 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.

See pages 15-18 for additional degree requirements.

SOCIAL WORK

Faculty

Professor

Wendy Sellers

Assistant Professors

Joi D. Anderson
Sara English

Instructors

Ja'Shaun Blanding
Shira Culbreath
Ashley Garrick
Sarah E. Hopkins
Christopher Ward

Associate Professors

Kori R. Bloomquist
Monique A. Constance-Huggins
Anthony J. Hill, *Chair*
Joshua Kirven
Duane R. Neff

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 people with disabilities. 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.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with SCWK 431	0
Technology	See approved list, p. 16; may be met by other req	0-3
Intensive Writing	Met in major with SCWK 330	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16	3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science* (3 courses)		9-12
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16 [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
<i>*No more than two courses in the major may count toward requirements in these areas</i>		
Subtotal		38-47
Requirements in the Major (C- or better required for all SCWK courses)		45
SCWK 200	Introduction to Social Work	3
SCWK 305	Human Behavior in the Social Environment	3
SCWK 306	Working with Multicultural Populations	3
SCWK 321	Social Welfare as a Social Institution	3
SCWK 330	Research Methods for Social Work	3
SCWK 430	Social Work Intervention I	3
SCWK 431	Interpersonal Helping Skills in Social Work Practice	3
SCWK 432	Social Work Intervention II	3
SCWK 433	Social Work Intervention III	3
SCWK 443	Social Work Field Instruction	12
SCWK 463	Social Work Field Seminar	3
SCWK electives		3
General Electives		28-37
Total		120

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 430, 431, 432, and 433 - students must formally apply for admittance to SCWK 430. In addition to completing all of the prerequisites for SCWK 430, students must also have earned 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 433, including passing Social Work courses 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, and a GPA of 2.40 in all social work courses.

The student must complete a minimum of 12 semester hours of SCWK courses in residence at Winthrop University. Although not specifically required, students are encouraged to take related courses in Psychology, Sociology, and Political Science.

See pages 15-18 for additional degree requirements.

SOCIOLOGY, CRIMINOLOGY, and ANTHROPOLOGY**Faculty****Professors**

Richard Chacon
Jeannie Haubert, *Chair*
Jonathan I. Marx

Associate Professors

Bradley G. Tripp

Assistant Professors

Ty Miller
Mike Sickels
Brent Woodfil

Professor Emeritus

Jonathan I. Marx

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.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXF 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	See approved list, p. 16; may be met by other req	0-3
Technology	See approved list, p. 16	3
Intensive Writing	Met in major with SOCL 516 or 519	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16; may be met in the major	0-3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators may be met in the major	0-6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science* (3 courses)		
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16 [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
*No more than two courses in the major may count toward requirements in these areas		
Subtotal		35-47
Requirements in Major		
SOCL 101 or 201	Social Problems & Soc Policy, Princ of Sociology	3
SOCL 298***	Career Development in Sociology	1
SOCL 316 ** (C- or better required)	Social Research I: Statistics	4
ANTH/SOCL 302 (C- or better required)	Anthropological Theory/Social Theory	3
SOCL 516+ or 519+	Social Research II: Methods, Soc Research Meth II: Qual Meth	4
SOCL 598	Senior Seminar in Sociology	1
Additional hours of SOCL		12-18
Additional hours of ANTH****		0-6
Minor		15-24
Foreign Language Requirement		3-8†
General Electives		7-33
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

*C- or better required and may not be taken on the S/U basis.

**Students with double majors in psychology and sociology or sociology majors with a minor in psychology may substitute PSYC 301 (with a grade of C- or higher) for SOCL 316 provided they complete an additional course in sociology. Consult advisers for appropriate courses.

***Students entering into the major with 60 or more completed credit hours should substitute another 1-credit hour Sociology or Anthropology course for this requirement.

****ANTH hours counted towards the sociology major cannot also be counted towards the anthropology minor. However, students with a major in sociology and a minor in anthropology may utilize SOCL/ANTH 302 (required in major) for ANTH 302 (required in

minor) provided they complete an additional course in anthropology towards the minor.

The student must complete a minimum of 12 semester hours of SOCL/ANTH courses in residence at Winthrop University. Although not specifically required, students are strongly encouraged to take related courses in ECON, HIST, MATH, PLSC and PSYC.

Sociology majors must attain a C- or better in SOCL/ANTH 302 to enroll in SOCL 516 or 519. Sociology majors must attain a C- or better in SOCL 516 or SOCL 519 to complete the major. Sociology majors are limited to a total of three hours credit in ANTH 463-464, ANTH 340, SOCL 463-464 or SOCL 340 towards the sociology major.

Students with a major in sociology (excluding anthropology concentrations) are strongly discouraged from attempting a minor in Criminal Justice. It is unfeasible because of not enough distinct courses offered and university rules that regulate hours allowed in a single designator (SOCL).

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

See pages 15-18 for additional degree requirements.

Bachelor of Arts in Sociology - Concentration in Criminology

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	See approved list, p. 16; may be met by other req	0-3
Technology	See approved list, p. 16	3
Intensive Writing	Met in major with SOCL 516 or 519	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16; could be met in major	0-3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators; could be met in major	0-6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science* (3 courses)		
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16 [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
*No more than two courses in the major may count toward requirements in these areas		
Subtotal		35-47
Requirements in Major		
		34
SOCL 101 or 201	Social Problems & Soc Policy, Princ of Sociology	3
SOCL 298***	Career Development in Sociology	1
SOCL 227	Intro to Criminal Justice	3
SOCL 316** (C- or better required)	Social Research I: Statistics	4
ANTH/SOCL 302 (C- or better required)	Anthropological Theory/Social Theory	3
SOCL 325	Criminology	3
SOCL 516+ or 519+	Social Research II: Methods, Soc Research Meth II: Qual Meth	4
SOCL 598	Senior Seminar	1
Six hours from: SOCL 330, 332, 335, 337, or 525		6
Additional hours of SOCL ††		3-6
Additional hours of ANTH (may not be used in an ANTH minor) (must have a total of 6 hours in SOCL or ANTH electives)		0-3
Minor		15-24
Foreign Language		3-8†
General Electives		7-33
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

††SOCL 314 recommended.

**C or better required and may not be taken on the S/U basis.

***Students with double majors in psychology and sociology or sociology majors with a minor in psychology may substitute PSYC

301 (with a grade of C- or higher) for SOCL 316 provided they complete an additional course in sociology. Consult advisers for appropriate courses.

*** Students entering into the major with 60 or more completed credit hours should substitute another 1-credit hour Sociology or Anthropology course for this requirement.

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

The student must complete a minimum of 12 semester hours of SOCL/ ANTH courses in residence at Winthrop University. Although not specifically required, students are strongly encouraged to take related courses in ECON, HIST, MATH, PLSC and PSYC.

Sociology majors must attain a C- or better in SOCL/ ANTH 302 to enroll in SOCL 516 or 519. Sociology majors must attain a C- or better in SOCL 516 or SOCL 519 to complete the major. Sociology majors are limited to a total of three hours credit in ANTH 463-464, ANTH 340, SOCL 463-464 or SOCL 340 towards the sociology major.

See pages 15-18 for additional degree requirements.

Bachelor of Arts in Sociology - Concentration in Anthropology

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	See approved list, p. 16; may be met by other req	0-3
Technology	See approved list, p. 16	3
Intensive Writing	Met in major with SOCL 516 or 519	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16; could be met in major	0-3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators ; could be met in major	0-6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science* (3 courses)		3-12
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16 [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>]; 3-4 hours could be met in major	(0-8)
*No more than two courses in the major may count toward requirements in these areas		
Subtotal		35-47
Requirements in Major		34
SOCL 101 or 201	Social Problems & Social Policy, Principles of Sociology	3
SOCL 298***	Career Development in Sociology	1
ANTH 201	Intro to Cultural Anthropology	3
ANTH 202 or 220 or 315	Intro to Biol Anth, Intro to Archaeology, Forensic Anth	3-4
ANTH/SOCL 302 (C- or better required)	Anthropological Theory/Social Theory	3
SOCL 316** (C- or better required)	Social Research II: Methods,	4
ANTH 341 or 345	Ethnography & Field Work, Field Work in Archaeology	3
SOCL 516+ or 519+	Social Research II: Methods, Soc Research Meth II: Qual Meth	4
SOCL 598	Senior Seminar	
ANTH electives		3-6
SOCL electives		3-6
(must have a total of 9 hours in SOCL or ANTH electives)		
Minor		15-24
Foreign Language		3-8†
General Electives		7-33
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

*C or better required and may not be taken on the S/U basis.

**Students with double majors in psychology and sociology or sociology majors with a minor in psychology may substitute PSYC

301 (with a grade of C- or higher) for SOCL 316 provided they complete an additional course in sociology. Consult advisers for appropriate courses

*** Students entering into the major with 60 or more completed credit hours should substitute another 1-credit hour Sociology or Anthropology course for this requirement.

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

The student must complete a minimum of 12 semester hours of SOCL/ANTH courses in residence at Winthrop University. Although not specifically required, students are strongly encouraged to take related courses in ECON, HIST, MATH, PLSC and PSYC.

Sociology majors must attain a C- or better in SOCL/ANTH 302 to enroll in SOCL 516 or 519. Sociology majors must attain a C- or better in SOCL 516 or SOCL 519 to complete the major. Sociology majors are limited to a total of three hours credit in ANTH 463-464, ANTH 340, SOCL 463-464 or SOCL 340 towards the sociology major.

Students with a Concentration in Anthropology may not minor in Anthropology.

See pages 15-18 for additional degree requirements.

Bachelor of Arts in Sociology-Concentration in Social Inequalities

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	See approved list, p. 16; may be met by other req	0-3
Technology	See approved list, p. 16	3
Intensive Writing	Met in major with SOCL 516 or 519	0
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16; could be met in major	0-3
Historical Perspectives	See approved list, p. 16	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators; could be met in major	0-6
Humanities and Arts	See approved list, p. 16; must include 2 designators	6
Quantitative Skills and Natural Science* (3 courses)		
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16 [Must include a lab science. If 2 courses taken, must be in 2 different groups: Life, Physical, Earth].	(3-8)
<i>*No more than two courses in the major may count toward requirements in these areas</i>		
Subtotal		35-47
Requirements in Major		
SOCL 101 or 201	Social Problems & Soc Policy, Princ of Sociology	3
SOCL 298***	Career Development in Sociology	1
ANTH/SOCL 302 (C- or better required)	Social Theory	3
SOCL 316** (C- or better required)	Social Research I: Statistics	3
SOCL 516+ or 519+	Social Research II: Methods, Soc Research Meth II: Qual Meth	4
SOCL 598	Senior Seminar	1
Twelve hours from: SOCL 213, 309, 311, 312, 314, 319, 339, 350**		12
Three hours from among SOCL 471, 472, 503A, 503B, 504, 508, 509		3
Three hours of ANTH or SOCL		3
Minor		15-24
Foreign Language		3-8†
General Electives		7-36
Total		120

†This requirement may be met by a satisfactory score on a recognized examination (such as CLEP) or by passing any foreign language course numbered 102 or any course with 102 as a prerequisite.

*C or better required and may not be taken on the S/U basis.

**Students with double majors in psychology and sociology or sociology majors with a minor in psychology may substitute PSYC 301 (with a grade of C- or higher) for SOCL 316 provided they complete an additional course in sociology. Consult advisers for appropriate courses.

****Students entering into the major with 60 or more completed credit hours should substitute another 1-credit hour Sociology or Anthropology course for this requirement.*

***Approval of chair is required for special topics courses.*

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

The student must attain a cumulative grade-point average of 2.00 or better in courses taken at Winthrop and included in the 34 semester hours of the required program.

The student must complete a minimum of 12 semester hours of SOCL courses in residence at Winthrop University.

In addition to the 34 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 120 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 ECON, HIST, MATH, PLSC and PSYC.

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/ ANTH course per semester (apart from SOCL 316 or SOCL/ ANTH302) until they complete both SOCL 316 and SOCL/ ANTH 302 with a grade of C or better. Sociology majors are limited to a total of three hours credit in ANTH 463-464, ANTH 340, SOCL 463-464 or SOCL 340 towards the sociology major.

See pages 15-18 for additional degree requirements.

WORLD LANGUAGES AND CULTURES**Faculty****Professors**Scott Shinabargar, *Chair***Instructor**

Victoria Uricoechea

Associate Professor

Adam Glover

Adjuncts

Lucia Huang

Gerri Martin

Assistant Professors

Anna Igou

Valerie Jepson

Concetta Morris

Bachelor of Arts in Modern Languages

The Department of World Languages and Cultures offers a Bachelor of Arts in Modern Languages with two specializations, Spanish and French. Students majoring in foreign language have gone on to graduate school in advanced language study, law or international business, have entered the teaching profession, or have obtained positions requiring bilingual capacities in business and industry.

The beginning courses (101-102), or the equivalent, are prerequisites for all other courses; however, only 102 is applied to the major, and neither course may be applied toward the minor.

Students may obtain credit for French, German, or Spanish 101, 102, 201 and/or 202 upon completion of the appropriate course with a grade of B or higher. Credit will not be given for courses for which university credit has been awarded previously. No grade is assigned to this credit. A grade is received only for the course taken at Winthrop. The course credits that can be earned are summarized on page 12. For further information, contact the Chair of the Department of World Languages and Cultures.

American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview Requirement

The ACTFL Oral Proficiency Interview is administered as one of the components of French 499 or Spanish 499. All students pursuing a B.A. degree with certification to teach in grades K-12 are expected to score at a level of advanced-low on the ACTFL Oral Proficiency Interview.

All students pursuing a B.A. degree in French or Spanish without teacher certification are expected to score at a level of intermediate-high on the ACTFL Oral Proficiency Interview. This course should be taken during the senior year. For students in the teacher education program, the course must be completed before the internship begins.

Bachelor of Arts in Modern Languages – French

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMPX 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with FREN 202	0
Technology	See approved list, p. 16; may be met by other req	0-3
Intensive Writing	See approved list, p. 16; may be met in the major	0-3
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16; could be met in major	0-3
Historical Perspectives	See approved list, p. 16; could be met in major	0-3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators May be partially met in major	3-6
Quantitative Skills and Natural Science* (3 courses)		
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16 [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
Subtotal		32-50

*No more than two courses in the major may count toward requirements in these areas

Requirements in Major		30-31
FREN 102 or 112	Elementary French II, Accelerated Elementary Fren II	3-4
FREN 201, 202, 300	Intermediate French I, II, Topics for Comp and Conversation	9
FREN 499	Proficiency Exam	0
FREN electives above 202 (may include MLAN 330A or 530A)		18
Minor		15-24
General Electives		15-43
Total		120

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

See pages 15-18 for additional degree requirements.

Bachelor of Arts in Modern Languages – Spanish

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with SPAN 202	0
Technology	See approved list, p. 16	0-3
Intensive Writing	See approved list, p. 16; may be met in the major	0-3
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16; could be met in major	0-3
Historical Perspectives	See approved list, p. 16; could be met in major	0-3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators	6
Humanities and Arts	See approved list, p. 16; must include 2 designators Could be partially met in major	3-6
Quantitative Skills and Natural Science* (3 courses)		9-12
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16 [Must include a lab science. If 2 courses taken, must be in 2 different groups: Life, Physical, Earth].	(3-8)

*No more than two courses in the major may count toward requirements in these areas

Subtotal		29-50
Requirements in Major		33-34
SPAN 102 or 112	Elementary Spanish II, Accelerated Elementary Span II	3-4
SPAN 201, 202, 250	Intermediate Spanish I, II, Intermed Comp & Conversation	9
Select one from SPAN 385, 421, 422	Spanish/Hispanic Civ & Culture	3
SPAN 310	Advanced Grammar & Comp I	3
Select from SPAN 306, 313, 351, 380, 405, 410		3
One course from SPAN 395, 401, or 402	Topics in Sp Lit, Surv of Hispanic Lit, Surv of Span Pen Lit	3
SPAN 499	Proficiency Exam	0
SPAN electives above 202 (may include MLAN 330A or 530A)		9
Minor		15-24
General Electives (15 sem hours of study abroad in a Spanish-speaking country recommended)		12-43
Total		120

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

A proficiency exam on the basic skills may be administered to all majors, minors and any interested students after completion of SPAN 250. The exam is diagnostic, and remedial work, if needed, will be recommended.

Students are required to enroll in SPAN 499. 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. No more than three hours of Practicum Experience can count toward the major.

See pages 15-18 for additional degree requirements.

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

Students desiring certification as teachers of French should consult with the department's teacher certification advisor and the College of Education section of the catalog, page 88, for specific requirements for admission to the Teacher Education Program.

General Education Courses		Semester Hours
ACAD 101	Principles of the Learning Academy	1
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMPX 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with MLAN 391	0
Technology	Met in Education Sequence with EDCO 305	0
Intensive Writing	See approved list, p. 16; may be met in the major	0-3
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines*		
Global Perspectives	See approved list, p. 16; could be met in major	0-3
Historical Perspectives	See approved list, p. 16; could be met in major	3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators 3 hours met in Education Sequence with EDCO 200	3
Humanities and Arts	See approved list, p. 16; must include 2 designators Could be partially met in major	3-6
Quantitative Skills and Natural Science* (3 courses)		9-12
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16 [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
<i>*No more than two courses in the major may count toward requirements in these areas</i>		
Subtotal		29-44
Requirement in Major		30-31
FREN 102 or 112	Elem French II or Accelerated Elementary Fren II	3-4
FREN 201, 202, 300	Intermed French I, II, Topics for Comp and Conversation	9
FREN 499	Proficiency Exam	0
Select courses from FREN above 202; may include MLAN 330A or 530A		18
Professional Education Sequence		38***
EDCO 101	Developing Observation and Analysis Skills	1
EDCO 200	Developmental Sciences and the Context of Poverty	3
EDCO 201	Supporting the Engl as Sec Lang student in Gen Ed Classrm	2
EDCO 202	Supporting Exceptional & Gifted Lrnrs in Gen Ed Classroom	2
EDCO 220	Assessment to Meet Diverse Needs	2
EDCO 305	Technology in the Inclusive Classroom	2
EDCO 350	Acad & Social Strat for Estab Inclusive Classrm Climate	3
EDCO 401	Internship: Contextual Factors	1
EDCO 402	Internship: Assessment and Instruction	9
EDCO 410	Education in a Democracy	2
MLAN 390, 591M, 591S, 393	Practicum, Principles in Teaching, Seminar in Mod Lang Ed	8
READ 346	Content Area Read/Writ	3***
General Electives		7-23
Total		120

***A grade of C or better is required in all READ and EDCO core courses. No core course can be taken for S/U credit with the exception of EDCO 401 & 402. Note that field hours will be required for EDCO 200, 201, 202, 305, 401, 402, and 410. EDCO 401 and 402 follow the K-12 public school calendar. More information on all these requirements is included in the course descriptions posted through the Schedule of Courses on the Office of Records and Registration website.

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 Richard W. Riley College of Education.

Passage of the PRAXIS II Series content area examinations is required prior to entry into the professional stage for all candidates in the teacher education program. For the most current PRAXIS information required for test(s) in your content area, visit the South Carolina Department of Education website: <https://ed.sc.gov/educators/certification/>.

Students seeking teacher certification should begin to plan early their course of study with the teacher education faculty and the department chair. Special attention should be given to completing courses in the proper sequence and to the semester(s) when required courses are offered.

American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview Requirement

All students pursuing a B.A. degree with certification to teach in grades K-12 will be expected to score at a level of advanced-low on the ACTFL Oral Proficiency Interview. This test will be given while the student is enrolled in French 499 and must be completed before the internship begins.

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 30-31 hours of the required program. The student must complete a minimum of 12 semester hours in the major in residence at Winthrop University. No more than three hours of Practicum Experience can count toward the major.

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

See pages 15-18 for additional degree requirements.

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

Students desiring certification as teachers of 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
Shared Skills and Proficiencies		
Writing and Critical Thinking		
WRIT 101, HMXP 102, CRTW 201	Composition; The Human Experience: Who Am I? Crit Reading, Thinking, & Writing	9
Oral Communication	Met in major with MLAN 391	0
Technology	Met in Education Sequence with EDCO 305	0
Intensive Writing	See approved list, p. 16; may be met in the major	0-3
Constitution Requirement	See approved list, p. 16; may be met by other req	0-3
Physical Activity	See approved list, p. 16	1
Thinking Critically Across Disciplines		
Global Perspectives	See approved list, p. 16; could be met in major	0-3
Historical Perspectives	See approved list, p. 16; could be met in major	0-3
Introducing Students to Broad Disciplinary Perspectives*		
Social Science	See approved list, p. 16; must include 2 designators 3 hours met in Education Sequence with EDCO 200	3
Humanities and Arts	See approved list, p. 16; must include 2 designators Could be partially met in major	3-6
Quantitative Skills and Natural Science* (3 courses)		9-12
Quantitative Skills	See approved list, p. 16	(3-8)
Natural Science	See approved list, p. 16 [Must include a lab science. If 2 courses taken, must be in 2 different groups: <i>Life, Physical, Earth</i>].	(3-8)
<i>*No more than two courses in the major may count toward requirements in these areas</i>		
Subtotal		29-44
Requirement in Major		33-34
SPAN 102 or 112	Elem Span II, Accelerated Elementary Span II	3-4
SPAN 201, 202, 250	Intermed Spanish I, II, Intermed Comp & Conv	9
SPAN 385, 421, or 422	Spanish/Hispanic Civ & Culture	3
SPAN 310	Advanced Grammar & Comp I	3
One course from SPAN 306, 313, 351, 380, 405, 410		3
SPAN 395, 401 or 402	Topics in Sp Lit, Surv of Hispanic Lit, Surv of Span Pen Lit	3
SPAN 499	Proficiency Exam	0
Select courses from SPAN above 202; may include MLAN 330A or 530A		9
Professional Education Sequence		38***
EDCO 101	Developing Observation and Analysis Skills	1
EDCO 200	Developmental Sciences and the Context of Poverty	3
EDCO 201	Supporting the Engl as Sec Lang student in Gen Ed Classrm	2

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EDCO 202	Supporting Exceptional & Gifted Lrnrs in Gen Ed Classroom	2
EDCO 220	Assessment to Meet Diverse Needs	2
EDCO 305	Technology in the Inclusive Classroom	2
EDCO 350	Acad & Social Strat for Estab Inclusive Classrm Climate	3
EDCO 401	Internship: Contextual Factors	1
EDCO 402	Internship: Assessment and Instruction	9
EDCO 410	Education in a Democracy	2
MLAN 390, 591M, 591S, 393	Practicum, Principles in Teaching, Seminar in Mod Lang Ed	5
READ 346	Content Area Read/Writ	3
General Electives		4-20
Total		120

****A grade of C or better is required in all READ and EDCO core courses. No core course can be taken for S/U credit with the exception of EDCO 401 & 402. Note that field hours will be required for EDCO 200, 201, 202, 305, 401, 402, and 410. EDCO 401 and 402 follow the K-12 public school calendar. More information on all these requirements is included in the course descriptions posted through the Schedule of Courses on the Office of Records and Registration website.*

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 Richard W. Riley College of Education.

Passage of the PRAXIS II Series content area examinations is required prior to entry into the professional stage for all candidates in the teacher education program. For the most current PRAXIS information required for test(s) in your content area, visit the South Carolina Department of Education website: <https://ed.sc.gov/educators/certification/>.

Students seeking teacher certification should begin to plan early their course of study with the teacher education faculty and the department chair. Special attention should be given to completing courses in the proper sequence and to the semester(s) when required courses are offered.

American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview Requirement

All students pursuing a B.A. degree with certification to teach in grades K-12 will be expected to score at a level of advanced-low on the ACTFL Oral Proficiency Interview. This test will be given while the student is enrolled in Spanish 499 and must be completed before the internship begins.

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 33-34 hours of the required program. The student must complete a minimum of 12 semester hours in the major in residence at Winthrop University. No more than three hours of Practicum Experience can count toward the major.

Not more than 36 semester hours in any one subject designator may be applied toward the major for a Bachelor of Arts degree. See page 15 for more information.

See pages 15-18 for additional degree requirements.