BIOLOGY (BA)

Program Overview

The Bachelor of Arts degree in Biology provides students with an opportunity to develop interests related to biology, allowing more flexibility for a customized education to match their specific interests, while also gaining skills in critical thinking and scientific reasoning in preparation for entry into advanced academic degree programs and careers that require a more interdisciplinary and less specialized biology background.

Career Opportunities

Career opportunities are available in the following areas: conservation, medicine, pharmacy, biotechnology, research, genetic counseling, veterinary medicine.

Program of Study

Code	Title	Credit
oode	Title	Hours
Core IMPACTS A	rea : Institutional Priorities ¹	4-5
COMM 1110	Public Speaking	3
ITDS 1779	Scholarship Across the Disciplines	2
LEAD 1705	Introduction to Servant Leadership	2
PERS 1506	Perspectives 1-hour	1
PERS 1507	Perspectives 2-hour	2
Foreign Languag	e Course Options	
	REN, GERM, GREK, ITAL, JAPN, KREN, LATIN, POR 002, 2001, 2002	Т,
SWAH 1001	Elementary Swahili I	
SWAH 1002	Elementary Swahili II	
Core IMPACTS A	rea : Mathematics & Quantitative Skills ¹	3-7
DATA 1501	Introduction to Data Science	3
MATH 1001	Quantitative Skills and Reasoning	3
MATH 1101	Introduction to Mathematical Modeling	3
MATH 1111	College Algebra	3
MATH 1113	Pre-Calculus	4
MATH 1125	Applied Calculus	3
MATH 1131	Calculus with Analytic Geometry I	4
MATH 1132	Calculus with Analytic Geometry II	4
MATH 1165	Computer-Assisted Problem Solving	3
MATH 1401	Introduction to Statistics	3
MATH 1501	Calculus I	4
MATH 2125	Introduction to Discrete Mathematics	3
STAT 1401	Elementary Statistics	3
Core IMPACTS A	rea : Political Science and U.S. History	6
HIST 2111	U. S. History to 1865	3
or HIST 2112	U. S. History since 1865	
POLS 1101	American Government	3
Core IMPACTS A	rea : Arts, Humanities, and Ethics	6
Select one Fine A	arts course	3
ARTH 1100	Art Appreciation	
ARTH 2125	Introduction to the History of Art I- Prehistoric through Gothic	

ARTH 2126	Introduction to the History of Art II— Renaissance through Modern	
MUSC 1100	Music Appreciation	
THEA 1100	Theatre Appreciation	
ITDS 1145	Comparative Arts ²	
Select one Huma	nities course	3
ENGL 2111	World Literature I	
ENGL 2112	World Literature II	
ITDS 1774	Introduction to Digital Humanities	
PHIL 2010	Introduction to Philosophy	
ITDS 1145	Comparative Arts ²	
Core IMPACTS Ar	rea : Communicating in Writing	6
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Core IMPACTS Ar	rea : Technology, Mathematics, and Sciences ¹	7-11
ANTH 1145	Human Origins	3
ASTR 1105	Descriptive Astronomy: The Solar System	3
ASTR 1106	Descriptive Astronomy: Stars and Galaxies	3
ASTR 1305	Descriptive Astronomy Lab	1
ATSC 1112	Understanding the Weather	3
ATSC 1112L	Understanding the Weather Lab	1
BIOL 1125	Contemporary Issues in Biology Non-Lab	3
BIOL 1215K	Introductory Biology	4
BIOL 1225K	Contemporary Issues in Biology with Lab	4
CHEM 1151	Survey of Chemistry I	4
& 1151L	and Survey of Chemistry I Lab	
CHEM 1152 & 1152L	Survey of Chemistry II and Survey of Chemistry II Lab	4
CHEM 1211 & 1211L	Principles of Chemistry I and Principles of Chemistry I Lab	4
CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab	4
CPSC 1105	Introduction to Computing Principles and Technology	3
CPSC 1301K	Computer Science I	4
ENVS 1105	Environmental Studies	3
ENVS 1105L	Environmental Studies Laboratory	1
ENVS 1205K	Sustainability and the Environment	4
GEOG 2215	Introduction to the Geographic Information Systems	3
GEOL 1110	Natural Disasters: Our Hazardous Environment	3
GEOL 1121	Introductory Geoscience I: Physical Geology	3
GEOL 1121L	Introductory Geoscience I: Physical Geology Lab	1
GEOL 1122	Introductory Geo-sciences II: Historical Geology	3
GEOL 1322	Introductory Geo-sciences II: Historical Geology Lab	1
GEOL 2225	The Fossil Record	4
PHYS 1111	Introductory Physics I	4
& PHYS 1311	and Introductory Physics I Lab	
PHYS 1112 & PHYS 1312	Introductory Physics II and Introductory Physics II Lab	4
PHYS 1125	Physics of Color and Sound	3
PHYS 1325	Physics of Color and Sound Lab	1

PHYS 2211	Principles of Physics I	4
& PHYS 2311	and Principles of Physics I Lab	
PHYS 2212	Principles of Physics II	4
& PHYS 2312	and Principles of Physics II Lab	
Core IMPACTS Ar	ea : Social Sciences	6
Select one Behav	ioral Science course	
ECON 2105	Principles of Macroeconomics	
ECON 2106	Principles of Microeconomics	
PHIL 2030	Moral Philosophy	
PSYC 1101	Introduction to General Psychology	
SOCI 1101	Introduction to Sociology	
Select one World	Cultures course	3
ANTH 1107	Discovering Archaeology	
ANTH 1105	Cultural Anthropology	
ANTH 2105	Ancient World Civilizations	
ANTH 2136	Language and Culture	
ENGL 2136	Language and Culture	
GEOG 1101	World Regional Geography	
HIST 1111	World History to 1500	
HIST 1112	World History since 1500	
ITDS 1155	The Western Intellectual Tradition	
ITDS 1156	Understanding Non-Western Cultures	
Core IMPACTS To	tal Hours	42
Health and Wellne	ess	3
KINS 1106	Lifetime Wellness	2
or PHED 1205	Concepts of Fitness	
Select one PEDS	course (https://catalog.columbusstate.edu/course-	

The hours applied in the Institutional Priorities; Mathematics & Quantitative Skills; and Technology, Mathematics, and Sciences areas must add to 18 credit hours.

Major Requirements

descriptions/peds/#peds)

Code	Title	Credit Hours
Core Requireme	ents	
Complete the co	ore requirements for this program	45
Field of Study R	equirements	
Minimum grade	of C is required	
BIOL 1107K	Principles of Biology I	4
BIOL 1108K	Principles of Biology II	4
BIOL 2206K	Organismic Biology I	4
BIOL 2207K	Organismic Biology II	4
Apply one hour	of Guided Electives	1
Apply one hour	from Area A (MATH 1113 or MATH 1131)	1
Field of Study R	equirements Total	18
Required for the	e Major	
Minimum grade	of C is required except for Foreign Language	
BIOL 3215K	Cell Biology	4
BIOL 3216K	Genetics	4

BIOL 3217K Ecology 4 BIOL 4795 Capstone Senior Seminar 2 Foreign Language 1001 3 Foreign Language 1001 3 MATH 1111 College Algebra 3 Use a general elective to substitute for MATH 1111 if shown to be math ready at a higher level. Use a general elective to substitute for any foreign language courses tested out of or used in Area B Required for the Major Total 26 Major Electives Minimum grade of C is required Select 3-4 credits from Cellular and Molecular Biology Electives BIOL 5117U Medical Genetics and Genomics BIOL 5118U Neuroscience BIOL 5215U Developmental Biology BIOL 5216U Histology and Histotechniques BIOL 5217U Cell and Molecular Techniques BIOL 5218U Introduction to Virology BIOL 5218U Reuroscience Lab BIOL 5317U Genomics and Bioinformatics Lab BIOL 5318U Neuroscience Lab BIOL 5245U Comparative Animal Physiology BIOL 5245U Comparative Animal Physiology BIOL 5245U Descence Lab BIOL 5245U Parasitology BIOL 5245U Omparative Animal Physiology BIOL 5245U Parasitology BIOL 5245U Omparative Animal Physiology BIOL 5245U Omparative Animal Physiology BIOL 5245U Parasitology BIOL 5257U Biology of Aging BIOL 5255U Vertebrate Diversity BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives BIOL 5285U Aquatic Biology BIOL 5285U Comparative Vertebrate Anatomy BIOL 5259U Comparative Vertebrate Anatomy BIOL 5285U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives BIOL 5285U Animal Communication BIOL 5285U Animal Communication BIOL 5285U Animal Communication BIOL 5285U Animal Communication BIOL 5285U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 511-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree			
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BIOL 5215U Developmental Biology BIOL 5216U Histology and Histotechniques BIOL 5217U Cell and Molecular Techniques BIOL 5218U Introduction to Virology BIOL 5219U Immunology BIOL 5225U Microbial Pathogenesis BIOL 5317U Genomics and Bioinformatics Lab BIOL 5318U Neuroscience Lab BIOL 5318U Neuroscience Lab BIOL 5515U Selected Topics in Cell and Molecular Biology Select 3-4 credits from Organismal Biology Electives 3-4 BIOL 5245U Comparative Animal Physiology BIOL 5246U Entomology BIOL 5247U Microbial Diversity BIOL 5248U Ornithology BIOL 5250U Parasitology BIOL 5250U Plant Taxonomy BIOL 5250U Plant Taxonomy BIOL 5250U Comparative Vertebrate Anatomy BIOL 5250U Comparative Vertebrate Anatomy BIOL 5250U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5299U Environmental Toxicology BIOL 5299U Animal Communication BIOL 5295U Animal Communication BIOL 5255U Selected Topics in Ecological and Evolutionary Biology BIOL 5255U Selected Topics in Ecological and Evolutionary Biology BIOL 5295U Animal Communication BIOL 5295U Animal Communication BIOL 5295U Animal Communication BIOL 5295U Animal Communication BIOL 5295U Touries in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5117U	Medical Genetics and Genomics	
BIOL 5216U Histology and Histotechniques BIOL 5217U Cell and Molecular Techniques BIOL 5218U Introduction to Virology BIOL 5219U Immunology BIOL 5225U Microbial Pathogenesis BIOL 5317U Genomics and Bioinformatics Lab BIOL 5318U Neuroscience Lab BIOL 5515U Selected Topics in Cell and Molecular Biology Select 3-4 credits from Organismal Biology Electives 3-4 BIOL 5245U Comparative Animal Physiology BIOL 5246U Entomology BIOL 5247U Microbial Diversity BIOL 5248U Ornithology BIOL 5255U Vertebrate Diversity BIOL 5255U Vertebrate Diversity BIOL 5255U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5287U Conservation Genetics BIOL 5289U Environmental Toxicology BIOL 5289U Environmental Toxicology BIOL 5295U Selected Topics in Ecological and Evolutionary Biology BIOL 5289U Environmental Toxicology BIOL 5289U Environmental Toxicology BIOL 5295U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5118U	Neuroscience	
BIOL 5217U Cell and Molecular Techniques BIOL 5218U Introduction to Virology BIOL 5219U Immunology BIOL 5225U Microbial Pathogenesis BIOL 5317U Genomics and Bioinformatics Lab BIOL 5318U Neuroscience Lab BIOL 5515U Selected Topics in Cell and Molecular Biology Select 3-4 credits from Organismal Biology Electives 3-4 BIOL 5245U Comparative Animal Physiology BIOL 5246U Entomology BIOL 5247U Microbial Diversity BIOL 5248U Ornithology BIOL 5255U Vertebrate Diversity BIOL 5255U Vertebrate Diversity BIOL 5255U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5287U Conservation Genetics BIOL 5289U Environmental Toxicology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology BIOL 5535U Selected Topics in Ecological and Evolutionary Biology BIOL 5289U Environmental Toxicology BIOL 5289U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree		Developmental Biology	
BIOL 5218U Introduction to Virology BIOL 5219U Immunology BIOL 5225U Microbial Pathogenesis BIOL 5317U Genomics and Bioinformatics Lab BIOL 5318U Neuroscience Lab BIOL 5515U Selected Topics in Cell and Molecular Biology Select 3-4 credits from Organismal Biology Electives 3-4 BIOL 5245U Comparative Animal Physiology BIOL 5246U Entomology BIOL 5247U Microbial Diversity BIOL 5248U Ornithology BIOL 5249U Parasitology BIOL 5255U Vertebrate Diversity BIOL 5255U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5285U Community Ecology BIOL 5287U Conservation Genetics BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5216U	Histology and Histotechniques	
BIOL 5219U Immunology BIOL 5225U Microbial Pathogenesis BIOL 5317U Genomics and Bioinformatics Lab BIOL 5318U Neuroscience Lab BIOL 5515U Selected Topics in Cell and Molecular Biology Select 3-4 credits from Organismal Biology Electives 3-4 BIOL 5245U Comparative Animal Physiology BIOL 5246U Entomology BIOL 5247U Microbial Diversity BIOL 5249U Parasitology BIOL 5255U Vertebrate Diversity BIOL 5255U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5255U Food Microbiology BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5285U Community Ecology BIOL 5287U Conservation Genetics BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5217U	Cell and Molecular Techniques	
BIOL 5225U Microbial Pathogenesis BIOL 5317U Genomics and Bioinformatics Lab BIOL 5318U Neuroscience Lab BIOL 5515U Selected Topics in Cell and Molecular Biology Select 3-4 credits from Organismal Biology Electives 3-4 BIOL 5245U Comparative Animal Physiology BIOL 5246U Entomology BIOL 5247U Microbial Diversity BIOL 5248U Ornithology BIOL 5255U Vertebrate Diversity BIOL 5255U Vertebrate Diversity BIOL 5255U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5285U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5218U	Introduction to Virology	
BIOL 5317U Genomics and Bioinformatics Lab BIOL 5318U Neuroscience Lab BIOL 5515U Selected Topics in Cell and Molecular Biology Select 3-4 credits from Organismal Biology Electives 3-4 BIOL 5245U Comparative Animal Physiology BIOL 5246U Entomology BIOL 5247U Microbial Diversity BIOL 5248U Ornithology BIOL 5255U Vertebrate Diversity BIOL 5255U Vertebrate Diversity BIOL 5255U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5259U Food Microbiology BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5285U Community Ecology BIOL 5288U Plant Ecology BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5289U Environmental Toxicology BIOL 5255U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5219U	Immunology	
BIOL 5318U Neuroscience Lab BIOL 5515U Selected Topics in Cell and Molecular Biology Select 3-4 credits from Organismal Biology Electives 3-4 BIOL 5245U Comparative Animal Physiology BIOL 5246U Entomology BIOL 5247U Microbial Diversity BIOL 5248U Ornithology BIOL 5249U Parasitology BIOL 5255U Vertebrate Diversity BIOL 5256U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5259U Food Microbiology BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5285U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5225U	Microbial Pathogenesis	
Select 3-4 credits from Organismal Biology Electives 3-4 BIOL 5245U Comparative Animal Physiology BIOL 5246U Entomology BIOL 5247U Microbial Diversity BIOL 5248U Ornithology BIOL 5249U Parasitology BIOL 5255U Vertebrate Diversity BIOL 5256U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5255U Food Microbiology BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5285U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5255U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5317U	Genomics and Bioinformatics Lab	
Select 3-4 credits from Organismal Biology Electives BIOL 5245U Comparative Animal Physiology BIOL 5246U Entomology BIOL 5247U Microbial Diversity BIOL 5248U Ornithology BIOL 5249U Parasitology BIOL 5255U Vertebrate Diversity BIOL 5256U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5255U Food Microbiology BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5318U	Neuroscience Lab	
BIOL 5245U Comparative Animal Physiology BIOL 5246U Entomology BIOL 5247U Microbial Diversity BIOL 5248U Ornithology BIOL 5249U Parasitology BIOL 5255U Vertebrate Diversity BIOL 5256U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5255U Food Microbiology BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5515U	Selected Topics in Cell and Molecular Biology	
BIOL 5246U Entomology BIOL 5247U Microbial Diversity BIOL 5248U Ornithology BIOL 5249U Parasitology BIOL 5255U Vertebrate Diversity BIOL 5256U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5255U Food Microbiology BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5285U Aquatic Biology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	Select 3-4 credits	from Organismal Biology Electives	3-4
BIOL 5247U Microbial Diversity BIOL 5248U Ornithology BIOL 5249U Parasitology BIOL 5255U Vertebrate Diversity BIOL 5255U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5255U Food Microbiology BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5245U	Comparative Animal Physiology	
BIOL 5248U Ornithology BIOL 5249U Parasitology BIOL 5255U Vertebrate Diversity BIOL 5256U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5265U Food Microbiology BIOL 5255U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5246U	Entomology	
BIOL 5249U Parasitology BIOL 5255U Vertebrate Diversity BIOL 5256U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5265U Food Microbiology BIOL 5525U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5285U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5247U	Microbial Diversity	
BIOL 5255U Vertebrate Diversity BIOL 5256U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5265U Food Microbiology BIOL 5525U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5248U	Ornithology	
BIOL 5256U Plant Taxonomy BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5265U Food Microbiology BIOL 5525U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5249U	Parasitology	
BIOL 5257U Biology of Aging BIOL 5259U Comparative Vertebrate Anatomy BIOL 5265U Food Microbiology BIOL 5525U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5255U	Vertebrate Diversity	
BIOL 5259U Comparative Vertebrate Anatomy BIOL 5265U Food Microbiology BIOL 5525U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5256U	Plant Taxonomy	
BIOL 5265U Food Microbiology BIOL 5525U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5257U	Biology of Aging	
BIOL 5525U Selected Topics in Organismic Biology Select 3-4 credits from Ecology and Evolution Electives 3-4 BIOL 5285U Aquatic Biology BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5259U	Comparative Vertebrate Anatomy	
Select 3-4 credits from Ecology and Evolution Electives BIOL 5285U Aquatic Biology BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5265U	Food Microbiology	
BIOL 5285U Aquatic Biology BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5525U	Selected Topics in Organismic Biology	
BIOL 5286U Community Ecology BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	Select 3-4 credits	from Ecology and Evolution Electives	3-4
BIOL 5287U Conservation Genetics BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5285U	Aquatic Biology	
BIOL 5288U Plant Ecology BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5286U	Community Ecology	
BIOL 5289U Environmental Toxicology BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5287U	Conservation Genetics	
BIOL 5295U Animal Communication BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5288U	Plant Ecology	
BIOL 5535U Selected Topics in Ecological and Evolutionary Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5289U	Environmental Toxicology	
Biology Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5295U	Animal Communication	
Major Electives Total 11-12 General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	BIOL 5535U		
General Electives Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	Major Flectives To		11-12
Thirteen to fourteen hours must be 3000-level or above in order to 22-23 reach the 39 required by the degree	-		
reach the 39 required by the degree		en hours must be 3000-level or above in order to	22-23
Total Credit Hours 123	reach the 39 requ	ired by the degree	
	Total Credit Hours	3	123

ITDS 1145 Comparative Arts, though listed under both Fine Arts and Humanities, may be taken only once.

Program Map

Suggested four year course schedule with MATH 0999B Support for College Algebra B or MATH 0999C Support for College Algebra C

Course	Title	Credit Hours
First Year Fall		
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
AREA C	Fine Arts	3
AREA E	World Culture	3
BIOL 1715	Professionalism and Careers in Biology (Highly recommended Area F Guided Elective to be taken in the first year.)	1
ENGL 1101	English Composition I (minimum grade of C)	3
MATH 1111	College Algebra (minimum grade of C)	3
MATH 0999B or MATH 0999	Support for College Algebra B ¹ or Support for College Algebra C C	
	Credit Hours	14
Spring		
BIOL 1231K	minimum grade of C	4
CHEM 1211 & 1211L	Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C)	4
ENGL 1102	English Composition II (minimum grade of C)	3
AREA G	Foreign Language 1001 (minimum grade of C)	3
MATH 1113	Pre-Calculus (minimum grade of C) ²	4
	Credit Hours	18
Second Year Fall		
BIOL 1232K	minimum grade of C	4
CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C)	4
AREA G	Foreign Language 1002 (minimum grade of C)	3
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
STAT 1401	Elementary Statistics (minimum grade of C)	3
	Credit Hours	16
Spring		
BIOL 2206K	Organismic Biology I (minimum grade of C)	4
BIOL 2207K	Organismic Biology II (minimum grade of C)	4
Area B1	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002	3
AREA G	Foreign Language 2001 (minimum grade of C)	3

AREA I	Minor Requirement	3
	Credit Hours	17
Third Year		
Fall		
AREA E	Behavioral Science	3
AREA I	Elective (minimum grade of C)	2
BIOL 3215K	Cell Biology (minimum grade of C)	4
BIOL 3216K	Genetics (minimum grade of C)	4
POLS 1101	American Government	3
	Credit Hours	16
Spring		
AREA C	Humanities	3
BIOL 3217K	Ecology (minimum grade of C)	4
AREA H	BIOL Cell/Molecular Senior Elective	4
	(minimum grade of C)	
AREA I	Minor Requirement	3
AREA I	Minor Requirement	3
	Credit Hours	17
Fourth Year		
Fall		
BIOL 4795	Capstone Senior Seminar (minimum grade of C)	2
AREA H	BIOL Organismal Senior Elective (minimum grade of C)	4
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
AREA I	Minor Requirement	3
PEDS Activity		1
	Credit Hours	13
Spring		
AREA I	Elective	2
AREA H	BIOL Ecology/Evolution Senior Elective (minimum grade of C)	4
AREA I	Minor Requirement	3
AREA I	Minor Requirement	3
	Credit Hours	12
	Total Credit Hours	123
		0

¹ Notes: MATH 0999B (2 credits) or MATH 0999C (1 credit) don't count

Suggested four year course schedule with MATH 1111 College Algebra

Course	Title	Credit Hours
First Year		
Fall		
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
AREA C	Fine Arts	3
BIOL 1231K	minimum grade of C	4

toward the degree.

Notes: MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

BIOL 1715	Professionalism and Careers in Biology (Highly recommended Area F Guided Elective to be taken in the first year.)	1
ENGL 1101	English Composition I (minimum grade of C)	3
MATH 1111	College Algebra (minimum grade of C)	3
	Credit Hours	15
Spring		
BIOL 1232K	minimum grade of C	4
Area B1	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002	3
ENGL 1102	English Composition II (minimum grade of C)	3
AREA G	Foreign Language 1001 (minimum grade of C)	3
MATH 1113	Pre-Calculus (minimum grade of C) 1	4
	Credit Hours	17
Second Year		
Fall		
BIOL 2206K	Organismic Biology I (minimum grade of C)	4
CHEM 1211	Principles of Chemistry I	4
& 1211L	and Principles of Chemistry I Lab	
AREA G	(minimum grade of C) Foreign Language 1002 (minimum grade of	3
KINS 1106	C) Lifetime Wellness	2
or PHED 1205	or Concepts of Fitness	2
STAT 1401	Elementary Statistics (minimum grade of C)	3
	Credit Hours	16
Spring		
BIOL 2207K	Organismic Biology II (minimum grade of C)	4
BIOL 3216K	Genetics (minimum grade of C)	4
CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C)	4
	and Principles of Chemistry II Lab	
& 1212L	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of	4
& 1212L AREA G	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C)	3
& 1212L AREA G	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C) Minor Requirement	3
& 1212L AREA G AREA I	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C) Minor Requirement Credit Hours	3 3 18
& 1212L AREA G AREA I Third Year	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C) Minor Requirement Credit Hours Behavioral Science	3
& 1212L AREA G AREA I Third Year Fall AREA E AREA I	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C) Minor Requirement Credit Hours Behavioral Science Elective (minimum grade of C)	3 3 18
& 1212L AREA G AREA I Third Year Fall AREA E AREA I BIOL 3215K	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C) Minor Requirement Credit Hours Behavioral Science Elective (minimum grade of C) Cell Biology (minimum grade of C)	3 3 18 3 2 4
& 1212L AREA G AREA I Third Year Fall AREA E AREA I BIOL 3215K AREA I	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C) Minor Requirement Credit Hours Behavioral Science Elective (minimum grade of C) Cell Biology (minimum grade of C) Minor Requirement	3 3 18 3 2 4 3
& 1212L AREA G AREA I Third Year Fall AREA E AREA I BIOL 3215K	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C) Minor Requirement Credit Hours Behavioral Science Elective (minimum grade of C) Cell Biology (minimum grade of C) Minor Requirement American Government	3 3 18 3 2 4 3 3
& 1212L AREA G AREA I Third Year Fall AREA E AREA I BIOL 3215K AREA I POLS 1101	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C) Minor Requirement Credit Hours Behavioral Science Elective (minimum grade of C) Cell Biology (minimum grade of C) Minor Requirement	3 3 18 3 2 4 3
& 1212L AREA G AREA I Third Year Fall AREA E AREA I BIOL 3215K AREA I POLS 1101 Spring	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C) Minor Requirement Credit Hours Behavioral Science Elective (minimum grade of C) Cell Biology (minimum grade of C) Minor Requirement American Government Credit Hours	3 3 18 3 2 4 3 3 15
& 1212L AREA G AREA I Third Year Fall AREA E AREA I BIOL 3215K AREA I POLS 1101 Spring AREA C	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C) Minor Requirement Credit Hours Behavioral Science Elective (minimum grade of C) Cell Biology (minimum grade of C) Minor Requirement American Government Credit Hours Humanities	3 3 18 3 2 4 3 3 15
& 1212L AREA G AREA I Third Year Fall AREA E AREA I BIOL 3215K AREA I POLS 1101 Spring AREA C AREA E	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C) Minor Requirement Credit Hours Behavioral Science Elective (minimum grade of C) Cell Biology (minimum grade of C) Minor Requirement American Government Credit Hours Humanities World Culture	3 3 18 3 2 4 3 3 15
& 1212L AREA G AREA I Third Year Fall AREA E AREA I BIOL 3215K AREA I POLS 1101 Spring AREA C	and Principles of Chemistry II Lab (minimum grade of C) Foreign Language 2001 (minimum grade of C) Minor Requirement Credit Hours Behavioral Science Elective (minimum grade of C) Cell Biology (minimum grade of C) Minor Requirement American Government Credit Hours Humanities	3 3 18 3 2 4 3 3 15

AREA I	Minor Requirement	3
	Credit Hours	17
Fourth Year		
Fall		
BIOL 4795	Capstone Senior Seminar (minimum grade of C)	2
AREA H	BIOL Organismal Senior Elective (minimum grade of C)	4
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
AREA I	Minor Requirement	3
PEDS Activity		1
	Credit Hours	13
Spring		
AREA I	Elective	2
AREA H	BIOL Ecology/Evolution Senior Elective (minimum grade of C)	4
AREA I	Minor Requirement	6
	Credit Hours	12
	Total Credit Hours	123

 $^{^{\}rm 1}\,$ Notes: MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

Suggested four year course schedule with MATH 1113 Pre-Calculus or higher

Course	Title	Credit Hours
First Year		
Fall		
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
AREA C	Fine Arts	3
BIOL 1231K	minimum grade of C	4
BIOL 1715	Professionalism and Careers in Biology (Highly recommended Area F Guided Elective to be taken in the first year.)	1
CHEM 1211 & 1211L	Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C)	4
ENGL 1101	English Composition I (minimum grade of C)	3
	Credit Hours	16
Spring		
BIOL 1232K	minimum grade of C	4
CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C)	4
ENGL 1102	English Composition II (minimum grade of C)	3
MATH 1113	Pre-Calculus (minimum grade of C) 1	4
	Credit Hours	15

Second Year Fall		
BIOL 2206K	Organismic Biology I (minimum grade of C)	4
Area B1	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002	3
AREA G	Foreign Language 1001 (minimum grade of C)	3
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
STAT 1401	Elementary Statistics (minimum grade of C)	3
	Credit Hours	15
Spring		
BIOL 2207K	Organismic Biology II (minimum grade of C)	4
BIOL 3216K	Genetics (minimum grade of C)	4
AREA G	Foreign Language 1002 (minimum grade of C)	3
AREA I	Minor Requirement	3
	Credit Hours	14
Third Year Fall		
AREA E	Behavioral Science	3
AREA I	Elective (minimum grade of C)	2
BIOL 3215K	Cell Biology (minimum grade of C)	4
AREA G	Foreign Language 2001 (minimum grade of C)	3
POLS 1101	American Government	3
	Credit Hours	15
Spring		
Spring AREA C	Humanities	3
	Humanities World Culture	
AREA C	World Culture Ecology (minimum grade of C)	3
AREA C AREA E	World Culture	3
AREA C AREA E BIOL 3217K	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective	3 3 4
AREA C AREA E BIOL 3217K AREA H	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective (minimum grade of C)	3 3 4 4
AREA C AREA E BIOL 3217K AREA H AREA I Fourth Year	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective (minimum grade of C) Minor Requirement	3 3 4 4
AREA C AREA E BIOL 3217K AREA H AREA I Fourth Year Fall	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective (minimum grade of C) Minor Requirement Credit Hours Capstone Senior Seminar (minimum grade	3 3 4 4 3
AREA C AREA E BIOL 3217K AREA H AREA I Fourth Year Fall BIOL 4795	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective (minimum grade of C) Minor Requirement Credit Hours Capstone Senior Seminar (minimum grade of C) BIOL Organismal Senior Elective (minimum	3 3 4 4 4 3 17
AREA C AREA E BIOL 3217K AREA H AREA I Fourth Year Fall BIOL 4795 AREA H HIST 2111	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective (minimum grade of C) Minor Requirement Credit Hours Capstone Senior Seminar (minimum grade of C) BIOL Organismal Senior Elective (minimum grade of C) U. S. History to 1865	3 3 4 4 3 17
AREA C AREA E BIOL 3217K AREA H AREA I Fourth Year Fall BIOL 4795 AREA H HIST 2111 or HIST 2112	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective (minimum grade of C) Minor Requirement Credit Hours Capstone Senior Seminar (minimum grade of C) BIOL Organismal Senior Elective (minimum grade of C) U. S. History to 1865 or U. S. History since 1865	3 3 4 4 3 17
AREA C AREA E BIOL 3217K AREA H AREA I Fourth Year Fall BIOL 4795 AREA H HIST 2111 or HIST 2112 AREA I	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective (minimum grade of C) Minor Requirement Credit Hours Capstone Senior Seminar (minimum grade of C) BIOL Organismal Senior Elective (minimum grade of C) U. S. History to 1865 or U. S. History since 1865 Minor Requirement Minor Requirement	3 3 4 4 3 17 2 4 3
AREA C AREA E BIOL 3217K AREA H AREA I Fourth Year Fall BIOL 4795 AREA H HIST 2111 or HIST 2112 AREA I AREA I	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective (minimum grade of C) Minor Requirement Credit Hours Capstone Senior Seminar (minimum grade of C) BIOL Organismal Senior Elective (minimum grade of C) U. S. History to 1865 or U. S. History since 1865 Minor Requirement	3 3 4 4 4 3 17 2 4 3 3
AREA C AREA E BIOL 3217K AREA H AREA I Fourth Year Fall BIOL 4795 AREA H HIST 2111 or HIST 2112 AREA I AREA I PEDS Activity	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective (minimum grade of C) Minor Requirement Credit Hours Capstone Senior Seminar (minimum grade of C) BIOL Organismal Senior Elective (minimum grade of C) U. S. History to 1865 or U. S. History since 1865 Minor Requirement Minor Requirement	3 3 4 4 3 17 2 4 3 3 3 3
AREA C AREA E BIOL 3217K AREA H AREA I Fourth Year Fall BIOL 4795 AREA H HIST 2111 or HIST 2112 AREA I AREA I PEDS Activity Spring	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective (minimum grade of C) Minor Requirement Credit Hours Capstone Senior Seminar (minimum grade of C) BIOL Organismal Senior Elective (minimum grade of C) U. S. History to 1865 or U. S. History since 1865 Minor Requirement Minor Requirement Credit Hours	3 3 4 4 4 3 17 2 4 3 3 1 16
AREA C AREA E BIOL 3217K AREA H AREA I Fourth Year Fall BIOL 4795 AREA H HIST 2111 or HIST 2112 AREA I AREA I PEDS Activity Spring AREA I	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective (minimum grade of C) Minor Requirement Credit Hours Capstone Senior Seminar (minimum grade of C) BIOL Organismal Senior Elective (minimum grade of C) U. S. History to 1865 or U. S. History since 1865 Minor Requirement Minor Requirement Credit Hours Elective	3 3 4 4 3 17 2 4 3 3 1 16 2
AREA C AREA E BIOL 3217K AREA H AREA I Fourth Year Fall BIOL 4795 AREA H HIST 2111 or HIST 2112 AREA I AREA I PEDS Activity Spring AREA I Area G	World Culture Ecology (minimum grade of C) BIOL Cell/Molecular Senior Elective (minimum grade of C) Minor Requirement Credit Hours Capstone Senior Seminar (minimum grade of C) BIOL Organismal Senior Elective (minimum grade of C) U. S. History to 1865 or U. S. History since 1865 Minor Requirement Minor Requirement Credit Hours Elective Elective BIOL Ecology/Evolution Senior Elective	3 3 4 4 3 17 2 4 3 3 1 16 2 3

AREA I	Minor Requirement	3
	Credit Hours	15
	Total Credit Hours	123

Notes: MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

Admission Requirements

In order to declare a major in biology, a student is required to have an overall GPA of 2.5.

Additional Program Requirements

Students must receive a grade of "C" or better for all classes in Areas D, F, G, and H. Classes with grades lower than a "C" cannot be used to satisfy prerequisite requirements for courses required in the major. To complete a degree in biology, students must obtain a minimum overall grade point average of 2.0 in all science courses applied to graduation.