

BIOLOGY - ECOLOGY AND EVOLUTION OPTION, BACHELOR OF SCIENCE

Dr. Michael Davis, Department Head

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Curriculum

Course	Title	Hours	Completed
Freshman			
Fall			
BIOL 1011	Orientation to the Biological Sciences	1	_____
BIOL 1114	Principles of Biology	4	_____
CHEM 2124 & CHEM 2120	General Chemistry I and General Chemistry I Lab	4	_____
ENGL 1013	Composition I	3	_____
MATH 1113	College Algebra	3	_____
Hours		15	
Spring			
BIOL 2124	Principles of Zoology	4	_____
CHEM 2134 & CHEM 2130	General Chemistry II and General Chemistry II Lab	4	_____
ENGL 1023	Composition II	3	_____
STAT 2163 or PSY 2053 or SOC 2053	Introduction to Statistical Methods or Statistics for the Behavioral Sciences or Statistics for the Behavioral Sciences	3	_____
USHG 1XXX	U.S. History and Government ¹	3	_____
Hours		17	
Sophomore			
Fall			
BIOL 2134	Principles of Botany	4	_____
CHEM 3254	Fundamentals of Organic Chemistry	4	_____
PHYS 2014 & PHYS 2000	Algebra-Based Physics I and Physics Laboratory I	4	_____
PSY 2003 or SOC 1003	General Psychology or Introductory Sociology	3	_____
Hours		15	
Spring			
Biology Elective ³		4	_____
CHEM 3264	Mechanistic Organic Chemistry	4	_____
COMM 2003 or COMM 2173	Public Speaking or Business and Professional Speaking	3	_____
PHYS 2024 & PHYS 2010	Algebra-Based Physics II and Physics Laboratory II	4	_____
Hours		15	

Junior**Fall**

BIOL 3034	Genetics	4	_____
BIOL 3054	Microbiology	4	_____
BIOL 3114 or BIOL 4094	Principles of Ecology or Coastal Ecology	4	_____
FAH 1XXX	Fine Arts and Humanities Courses ¹	3	_____
Hours		15	

Spring

Biology Electives ³		6-8	
Mathematics or Statistics Elective ²		3	
Physiology Elective ⁶		4	
SS 1XXX	Social Science Courses ¹	3	_____
Hours		16-18	

Senior**Fall**

Biology Elective ³		6-8	
FAH 1XXX	Fine Arts and Humanities Courses ¹	3	_____
Organismal Elective ⁴		4	
Elective		2	
Hours		15-17	

Spring

BIOL 4891	Seminar in Biology	1	_____
Biology Elective ³		4	
Cell or Molecular Elective ⁵		3-4	
Elective		4	
Hours		12-13	

Total Hours	120-125
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¹ See appropriate alternatives or substitutions in "General Education Requirements".

² Mathematics and Statistics Elective courses include: any mathematics higher than MATH 1113 College Algebra or any statistics higher than STAT 2163 Introduction to Statistical Methods.

³ Biology Elective courses include: any course with biology prefix.

⁴ Organismal Elective courses include: BIOL 2014 Human Anatomy, BIOL 3004 Plant Taxonomy, BIOL 3064 Parasitology, BIOL 3084 Ichthyology, BIOL 3104 Introduction to Entomology, BIOL 3134 Invertebrate Zoology, BIOL 3144 Ornithology, BIOL 3154 Mammalogy, BIOL 3224 Herpetology, BIOL 4044 Dendrology.

⁵ Cell/Molecular Elective courses include: BIOL 4023 Immunology, BIOL 4033 Cell Biology, BIOL 4054 Vertebrate Histology, BIOL 4074 Molecular Genetics.

⁶ Physiology Elective courses include: BIOL 3074 Human Physiology, BIOL 3174 Physiological Ecology.

⁷ At least 40 of the total hours required for graduation must be 3000-4000 level courses.