

# Department of Biology

UNIVERSITY OF  
WISCONSIN  
OSHKOSH

College of Letters and Science

# Ecology & Organismal Emphasis

## 58 credit min

Effective Fall 2018

### Core Courses (37 or 38 Credits)

BIO 105	Biological Concepts (NS)(XL)	B	(4) _____
<b>OR</b>			
BIO 108	Honors: Concepts in Bio (NS)(XL)	F	(5) _____
BIO 230	Biology of Animals (NS)(XL)(Bio 105)	B	(4) _____
BIO 231	Biology of Plants and Microbes (NS)(XL)(Bio 105)	B	(4) _____
BIO 319	General Animal Physiology (NS) (Bio 323, 1 yr. Chem)	B	(5) _____
<b>OR</b>			
BIO 345	Plant Physiology (NS) (1 term gen Bio, 1 yr. gen Chem, BIO 231)	S	(5) _____
<b>OR</b>			
BIO 450	Microbial Physiology (Bio 309)	F	(5) _____
BIO 323	Intro Molecular & Cell Bio (Bio 105, Chem 105 and/or C/Chem 106, or Chem 101,102 w/B)	B	(3) _____
BIO 343	Genetics (NS)(Bio 323)	B	(4) _____
BIO 349	Ecology and Evolution	B	(3) _____
BIO 491	Senior Survey	B	(0) _____
CHEM 105	General Chemistry I (NS)(XL)	B	(5) _____
CHEM 106	General Chemistry II (NS)(XL)	B	(5) _____

### Additional required course (3 Credits)

BIO 325	Field Ecology (NS)	F	(3) _____
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### Organismal Electives List (9 Credits Min.)

BIO 300	Internship in Biology	B	(1-6) _____
BIO 301	Internship in Microbiology	B	(1-6) _____
BIO 304	Plant Taxonomy (NS) (1 term general Bio)	F	(3) _____
BIO 308	Comparative Anatomy (NS) (1 term general Bio)	S	(5) _____
BIO 316	Developmental Biology (Bio 323 or equivalent)	S	(3) _____
BIO 321	Mycology (NS) (1 term general Bio)	F	(3) _____
BIO 328	Ornithology (NS) (Bio 230)	S	(3) _____
BIO 330	Ichthyology (NS) (Bio 203 and 1 yr general Chem w/lab)	F <sup>^</sup>	(3) _____
BIO 332	Entomology (NS) (Bio 105 or 108)	F	(3) _____
BIO 336	Fresh Water Algae (NS) (Bio 231, 233, or 309)	F*	(3) _____
BIO 337	Plant Anatomy (NS)	S*	(3) _____
BIO 354	Parasitology (NS) (Bio 105 or 108 and Bio 230)	S	(3) _____
BIO 446	Independent Study	B	(1-3) _____
BIO 456	Related Readings	B	(1-3) _____
BIO 474	Honors Thesis	B	(1-6) _____

### **Ecology Electives List (9 Credits Min.)**

BIO 300	Internship in Biology	B	(1-6) _____
BIO 301	Internship in Microbiology	B	(1-6) _____
BIO 314	Principles of Wildlife Management (Bio 349 and Env Stds 260)	S	(3) _____
BIO 318	Wildlife Behavior & Conservation (Bio 105 or Env Stds 260)	F	(3) _____
BIO 326	Introductory Limnology (NS) (1 term gen Bio, 1yr gen Chem)	F^	(3) _____
BIO 327	Microbial Ecology & Diversity (Bio 231 or 233 or 309)	F	(3) _____
BIO 338	Environmental Toxicology (Bio 105)	S	(2) _____
BIO 376	Population and Community Ecology (NS) (Bio 349)	F	(3) _____
BIO 386	Ecosystem Ecology (NS) (Bio 349)	S	(3) _____
BIO 446	Independent Study	B	(1-3) _____
BIO 456	Related Readings	B	(1-3) _____
BIO 474	Honors Thesis	B	(1-6) _____

Pre-requisites in parentheses • S = Spring • S\* = Spring Even years • S^ = Spring Odd years  
• F = Fall • F\* = Fall Even years • F^ = Fall Odd years • B = Both Fall & Spring  
• C/ = Concurrent enrollment

### **Must meet General Education and Degree Requirements to earn BS Degree**

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