UNIVERSITY OF WISCONSIN OSHKOSH

College of Letters and Science

Ecology and Organismal Biology Emphasis
60 credit min

Effective for Spring 2013

Course pre-requisites are in parentheses
C/ means concurrent enrollment allowed
(F= Fall term only, S= Spring term only, B= Both Fall and Spring terms)

Biology Core Courses (11-12 credits)

BIO 105 B Biological Concepts (4) ___
OR
BIO 108 F Honors: Concepts in Bio (5) ___
BIO 323 B Intro Molecular and Cell Bio (3) ___
(BIO 105, CHEM 105 and/or c/enrollment in CHEM 106,OR CHEM 101, 102 w/B)
BIO 343 B Genetics (BIO 323) (4) ___
BIO 491 B Senior Survey *** (0) ___

Required Courses (10 credits)

CHEM 105 B General Chemistry I (5) ___
CHEM 106 B General Chemistry II (5) ___

MATH (3-4 credits)

MATH 171 B Calculus I (MA) (4) ___
(MATH 108 OR 104, 106 w/C)
OR
MATH 175 Honors Calculus I (4) ___
OR
MATH 201 B Applied Statistics (MA) (3)___
OR
PSYCH 203 B Elem Psych Statistics (3)___
OR
GEOG 385 Quant Methods in Geog and Environ Sciences (3) ___

Additional Required Courses (19 credits)

BIO 230 B Biology of Animals (NS) (BIO 105) (4) ___
BIO 231 B Bio of Plants and Microbes (NS) (BIO 105) (4) ___
BIO 325 F Field Ecology (BIO 105, 349) (3) ___
BIO 349 B Ecology and Evolution (1 term gen bio) (3) ___
BIO 319 B General Animal Physiology (BIO 323) (5) ___
OR
BIO 345 S Plant Physiology (BIO231) (5) ___
OR
BIO 450 F Microbial Physiology(NS)(BIO 309) (5) ___
AND (Two of the following courses):
BIO 326 F* Introductory Limnology (NS) (3) ___
(1 yr gen bio, 1 yr gen chem and inst consent)
BIO 376 F Pop and Comm Ecology (NS) (BIO 349) (3) ___
BIO 386 S Ecosystems Ecology (NS) (3) ___
(BIO 349 or consent. Special fees may apply)

Biology electives (14 credits)

BIO 300 B Internship in Biology (1-6) ___
BIO 304 F Plant Taxonomy (NS) ** (3) ___
BIO 308 S Comparative Anatomy (NS) ** (5) ___
BIO 316 S Developmental Biology (BIO 323) (3) ___
BIO 318 Wildlife Behavior & Conservation (3) ___
BIO 321 F Mycology (NS) (1 term gen bio) (3) ___
BIO 326 F* Introductory Limnology (NS) (3) ___
(1 yr gen bio, 1 yr gen chem and inst consent)
BIO 327 F Microbial Ecology (3) ___
BIO 328 S Ornithology (NS) (BIO 230) (3) ___
BIO 330 S* Ichthyology (NS) (BIO 230) (3) ___

BIO 332 S Entomology (NS) ** (3) ___
BIO 335 F+ Systematic Biology (2 terms bio) (3) ___
BIO 336 F+ Fresh Water Algae (NS) (3) ___
(BIO 231, 233 **OR** 309)
BIO 338 S Environmental Toxicology (BIO 105) (2) ___
BIO 354 S Parasitology (NS) (3) ___
BIO 355 Field Parasitology (BIO 105) (3) ___
BIO 358 S* Freshwater Invertebrates (2) ___
BIO 367 Field Ornithology (2) ___

BIO 376 F Pop and Comm Ecology (NS) (BIO 349) (3) ___
BIO 386 S Ecosystems Ecology (NS) (3) ___
(BIO 349 or consent. Special fees may apply)

F* = Fall odd years.
F+ = Fall even years.
S* = Spring odd years.
*Fall semester of odd years.
**(one term general biology and BIO 230)
*** Senior Students, during their last semester, will take a general biology/microbiology assessment exam and fill out a survey to express their opinion of the biology/microbiology program. Tests/surveys will be taken in the Testing Center at the student's convenience, (but during normal Testing Center hours). Completion of the test/survey is a requirement for graduation.

Approved: November 2011
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Must also meet General Education and Degree Requirements to earn BS Degree.

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