

Biological Sciences Courses

Contact:

Biological Sciences Department
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BIOLOGY 541

Animal Development 4 u

A study of reproductive cycles, gametogenesis and fertilization; the establishment of tissues, organs and systems. Introduction to embryological experimental techniques and procedures for study of frog, chick, and pig. Laboratory, lecture and quizzes.

Prereq: BIOLOGY 251 and BIOLOGY 253 or equivalents.

BIOLOGY 554

Field Botany 3 u

A study of the major groups of plants, with emphasis on structure, reproduction, classification and evolution.

BIOLOGY 590

Biology Colloquium .5 u

Lecturers on current research and career opportunities in biology through the colloquium format.

Required of Biology majors offered on a satisfactory/no credit basis every semester. May not be taken concurrently with Senior Biology Colloquium.

BIOLOGY 615

Endocrinology 3 u

A study of the hormonal regulation of metabolism, growth and reproduction. Three hours of lecture per week, laboratory demonstrations arranged.

Prereq: BIOLOGY 253.

BIOLOGY 630

Animal Behavior 3 u

Behavior of animals as individuals and groups, including study of causation, development, integration, evolution and adaptive value of behavior patterns. Lecture and lab-oratory.

Prereq: BIOLOGY 251 and BIOLOGY 257 or equivalents.

BIOLOGY 653

Animal Histology 3 u

A study of the minute structure of animal tissues by examination of materials prepared for the light

microscope supplemented by micrographs showing details revealed with electron microscopy. Emphasis on human microscopic anatomy. Four hours of laboratory or lecture per week.

Prereq: BIOLOGY 253 or equivalent.

BIOLOGY 654

Vertebrate Field Biology 3 u

A study of the classification, distribution, ecology and life histories of the vertebrates. Special emphasis is given to the vertebrates of Wisconsin. A collection of local vertebrates will be required. Field trips. Offered during the fall semester of even years.

Prereq: BIOLOGY 257 or equivalent.

BIOLOGY 657

General Ecology 4 u

A study of biotic populations and communities and natural ecosystems. Contemporary ecological theory and techniques will be emphasized. Laboratory exercises will include field studies, laboratory experiments, and computer simulations and analysis. Six hours of lecture and laboratory per week.

Prereq: BIOLOGY 251 or equivalent; BIOLOGY 257 or equivalent; MATH 231 or MATH 342/542 or PSYCH 215 or equivalent.

BIOLOGY 667

Conservation Biology 3 u

A study of the application of modern principles of ecology, genetics and evolution to the preservation of natural communities and their constituent organisms. Topics covered include causes and consequences of rarity of organisms, population viability analysis, preservation of genetic diversity, island biogeography, fragmentation and edge effects, and both in situ and ex situ measures for the protection of biodiversity. Three hours of lecture per week.

Prereq: BIOLOGY 251 and BIOLOGY 257 and MATH 231 or MATH 442/642 or PSYCH 215 or equivalent statistics.

BIOLOGY 690

Workshop 1-3 u

BIOLOGY 691

Travel Study 1-3 u

BIOLOGY 692

Laboratory Teaching Experience 1 u

This course provides teaching experience at the college level for undergraduate and graduate students. Students will assist faculty members in preparing, delivering, and tearing down laboratory or discussion section instructional units in biology courses, conducting review sessions and tutoring students under the direct supervision of a faculty mentor. S/F only. Repeatable for a total of 2 credits.

Prereq: Grade of B or better in the assigned course, and a GPA of 3.00 or better. Approval of a faculty mentor and the Biological Sciences Department.

BIOLOGY 694

Seminar 1 u

BIOLOGY 696

Special Studies 1-3 u

BIOLOGY 790

Workshop 1-6 u

BIOLOGY 793

Practicum 1-6 u

BIOLOGY 794

Seminar 1-3 u

BIOLOGY 796

Special Studies 1-3 u

BIOLOGY 798

Individual Studies 1-3 u

BIOLOGY 799

Thesis Research 1-6 u

Students must complete a Thesis Proposal Form in the Graduate Studies Office before registering for this course.