

Nebraska Wesleyan University

Catalog 2014-2015

BIO 2300 Ecology and Evolution

4 hours

Majors, Minors & Degrees:

Majors

Biochemistry and Molecular Biology (B.S.)

Biology (B.A.)

Biology (B.S.)

Science Education (B.A., B.S.)

Minors

Biology

Departments/Programs:

Biology

An introduction to the interaction of life with the environment at the molecular, organismal through ecosystem levels, highlighting the major factors influencing evolutionary change. Topics include genetic and phenotypic variation, natural selection, adaptation, speciation, symbiosis and populations dynamics especially in light of human interference, and ecosystem structure and function.

Where possible, principles of evolution and ecology will be integrated.

Three lectures per week.

One 3-hour lab per week, including field, laboratory and greenhouse work.

Prerequisite(s): BIO-1400, CHEM 1110 Chemical Principles I and CHEM 2100 Organic Chemistry I .

(Normally offered each semester.)