To enhance student preparation for professional school, graduate school, or career opportunities.

Financial aid information for graduate students is available on our website at *www.uu.edu/financialaid/graduate/*. Generally, graduate students may be eligible for Federal Direct student loans or private alternative student loans (

522/522L. Advanced Human Anatomy and Physiology II (3) and Advanced Human Anatomy & Physiology II Lab (1) S
Prerequisite: BIO 521.
A continuation of BIO 521 studying body systems: endocrine, cardiovascular, respiratory, urinary, digestive, and lymphatic. Three hours lecture and optional 3 hours laboratory/week.

523/523L. Cell Biology (3) and Cell Biology Lab (1) S
A study of biological systems at the cellular and subcellular levels emphasizing functional aspects such as protein processing and sorting, membrane systems, energy generation in mitochondria and chloroplasts, and cell signaling. Three hours lecture and optional 3 hours laboratory/week.

525/525L. Molecular Biology (3) and Molecular Biology Lab (1) F
Basic principles of molecular biology focusing on recombinant DNA methods as applied to a variety of biological questions. Students will learn basic research laboratory skills through a wide range of methods from gel electrophoresis to subcloning. Three hours lecture and optional 3 hours laboratory/week.

535. Conservation Biology (3) S–Even Years
A study of the principles of conservation and wildlife management. Examines the ecology of species of interest and the habitat manipulation techniques used in the conservation of such organisms.

536/536L. Ecology and Conservation of the Vertebrates (3) and Ecology and Conversation of the Vertebrates Lab (1) F-Even Years
Study of the natural history and ecology of North American vertebrates, including fish, amphibians, reptiles, birds and mammals. Conservation concerns of particular vertebrates will be examined. Three hours lecture and optional 3 hours laboratory/week.

537. Taxonomy of the Vascular Plants (4) S–Odd Years
A study of the vascular plants of the eastern United States, focusing on the common herbaceous plants, vines, shrubs, and trees and their identification in the field. Field trips required. Two hours lecture and 6 hours laboratory/week.

538/538L. Ecology (3) and Ecology Lab (1) S
A study of the interactions between organisms and tudy of tne0.5 (m)0t10 0-38.2 trees p/Tm[lm/Langotf )-0.prtrees p/Tm[lm/Li

559/559L. Dendrology (3) and Dendrology Lab (1) F–Even Years
This course will focus on the identification and management of trees, focusing on forest ecology and silvicultural practices. The laboratory will include field trips that will focus on tree identification. Three hours lecture and optional 3 hours laboratory/week.

560/560L. Plant-Insect Interactions (3) and Plant-Insect Interactions Lab (1) F–Odd Years
This course is designed to introduce the student to insects and their relationships with plants. Lecture will cover insect ecology, taxonomy, and biology, as well as plant strategies to overcome insect damage and mutualism between plants and insects. The laboratory and field portions of the class will involve insect collection and identification, along with the evaluation of positive and negative impacts of insects on plants. Three hours lecture and optional 3 hours laboratory/week.

570. Graduate Project I (2) F
Students enrolling in this course will work with a faculty mentor on a year-long project, culminating in a research paper, which will be defended in a public forum before a committee of three faculty members (including the mentor). The mentor will work with the student to select courses to support the general overview of the project.

571. Graduate Project II (2) S
Continuation of BIO 570.

585. Special Topics in Biology (1-4)
Group studies which do not appear in the department course offerings. Course content will be determined by need.

597. Special Topics in Cell and Molecular Biology (3) F or S
Variable content course designed to address cutting-edge topics in cell and molecular biology.