

16:765:507 Advanced Plant Systematics (4 credits)

Normally Offered:

Fall, odd-numbered years.

Instructor:

Lena Struwe

Pre-requisites and other registration restrictions:

General Biology

Format:

two 80-minute lectures/week, one lab/week

Description:

An overview of the evolution and diversity of vascular plants, from ferns to conifers and flowering plants.

Topics:

Field identification, plant morphology, principles of classification and taxonomy, and basic concepts in evolutionary research, nomenclature, phylogenetics, and morphological evolution, historical and contemporary botany, basic pollination, anatomy, and biodiversity of plants. Peer-review of presentations/posters. Collecting of plants for inventories or as vouchers.

Examinations:

2 major exams, lab quizzes.

Other requirements:

Herbarium collection project, poster/presentation project, independent essay, lab reports. All labs required. Textbook, local flora book, and supplementary reading, lectures and all course material available on-line.

Grading

Theory Midterm 100 points

Theory Final 100

Lab and Field Trip Worksheets 120 (12 worksheets @ 10 points each)

Lab Quizzes 100 (2 quizzes @ 50 points each)

Species Project 30

Genus project 40

Other assignments c. 50 (each 10 points)

Collection Assignment 100 (10 plants @ 10 points each)

Course Website:

eCompanion (only available to enrolled students)