BI 202 : GENERAL BOTANY

Transcript title
General Botany

Credits
4

Grading mode
Standard letter grades

Total contact hours
60

Lecture hours
30

Lab hours
30

Course Description
Studies plant anatomy, human interactions with plants, and especially plant taxonomy within an evolutionary framework. Focuses on flowering plant families common in Central Oregon and identification using taxonomic keys.

Course learning outcomes
1. Use technical botanical terminology to describe the vegetative and floral characteristics important for classifying plants.
2. Use key characteristics and established taxonomical schemes, such as dichotomous keys, to identify and classify plants.
3. Describe appropriate techniques, ethics, and reasons for collection of botanical specimens for study.
4. Explain human historical and cultural connections with plants to human society.
5. Collect botanical data to assess individual plant, population, community, and ecosystem health, and/or biodiversity for a specific local area.

Content outline
1. Science of Botany
2. Plant Evolution
3. Major Plant Groups
4. Vegetative Anatomy
5. Floral Anatomy
6. Unique Floral Shapes and Families
7. Monoecious and Dioecious Plants
8. Inflorescences
9. Pollination and Seed Dispersal
10. Fruits
11. Underground Structures, Vegetative Characteristics, and Monocot Families
12. Botanical Dichotomous Keys
13. Field Botany and Herbariums
14. Plant Communication
15. Ethnobotany

Required materials
Course may require textbook.

General education/Related instruction lists
- Science Lab