# BOT 101L: INTRODUCTION TO BOTANY

Introduction to general plant biology. Anatomy, physiology, and diversity of common protists, fungi, and plants, with emphasis on plants of the Pacific Northwest. (NS)

## Course Student Learning Outcomes

1. Distinguish among the various major groups of plants and identify why they are categorized as so.
2. Diagram or describe key plant processes such as photosynthesis, respiration, transpiration.
3. Identify some common native plants by common and sometimes scientific names.
4. Explain some of the key relationships between plants and people including ecosystem services, agriculture, wood production, ethnobotany.
5. Interpret data collected from botanical inquiry.
6. Analyze and communicate (verbally and orally) the results of a scientific study.
7. Discuss some of the ecological dilemmas related to the plant kingdom and evaluate potential solutions.
8. Safely and correctly use lab equipment such as microscopes.
9. Demonstrate the ability to collect field data and use field equipment and tools correctly (such as dichotomous keys, GPS, compass).
10. Accurately record, in detail, lab specimens in order to illustrate key characteristics of plant structures and compare and contrast characteristics.
11. Use library resources to support a research objective in an independent project.
12. Approach unknown questions with a critical eye. Able to apply acquired knowledge to novel questions or challenges.

Credits: 5
Prerequisites: Eligibility for both ENGL& 101 and MATH 090/091.
Program: Botany