BIOL 438

Term: SPRING 2016  
Course No. & Section: BIOL 438-01

Course Title: PLANT DEVELOPMENT LAB

Professor: DR. NANCY FUJISHIGE

Course Description (principal topics covered):

Objectives:
- This course will explore various techniques that are used to study the mechanisms governing plant growth and development

Content:
- Basic histology to study plant anatomy
- Effects of hormones and the environmental stimuli on development
- Effects of biotic and abiotic stress on development
- Techniques in plant cell and tissue culture
- Genetic engineering and transformation of plants
- Analysis of gene expression in plants

Prerequisites/Recommended Background:
- BIOL 437 (may be taken as a prerequisite or concurrently)

Required Texts/References:
- Lab assignments will be provided in class
- Biology of Plants, eighth edition. P. Raven (reference)

Course Work/Expectations:
- 4 hours of lab per week
- Lab Notebook
- Lab Reports
- Quizzes
- Final Exam

Comments:
- This course can be used to fulfill a laboratory requirement