

BIOL 366 – Plant Physiology

Course Outline - Winter Term, 2023

Lectures: Tuesday, Wednesday, Friday; 1:30-2:20 p.m. - Cunningham 146

Labs: Tuesday or Wednesday, 2:30-5:30 p.m. - Cunningham 136

INSTRUCTORS: Dr. Barbara Hawkins (bhawkins@uvic.ca) - Course co-ordinator
Dr. Sian Kou-Giesbrecht (siankougiesbrecht@uvic.ca)

LAB INSTRUCTOR: Claire McPolin (marieclairempolin@uvic.ca)

COURSE OBJECTIVES: To provide an understanding of how plants function. Topics include the capture of light energy for growth and metabolism, water relations, plant nutrition, transport processes, plant development and its control, phytohormones, and responses to environmental stimuli. You will learn that plants are very active and responsive to internal and external stimuli. Plant response to the environment will be explored on biochemical, physical and molecular levels. The laboratory exercises reinforce these concepts and provide practical experience in plant physiology.

TEXTBOOK: Taiz et al., **Plant Physiology and Development**, 7th Edition (2022), Sinauer. (strongly recommended - older editions are also suitable).

LAB MANUAL: Biology 366 Plant Physiology - Laboratory Manual 2023 (required - available from the Bookstore)

COURSE FORMAT: Dr. Hawkins will teach the first half of the course and Dr. Kou-Giesbrecht will teach the second half. The Powerpoint slides for each lecture will be made available on the Brightspace site for the course. **Please be aware that these are outlines, not detailed notes** that are provided to help you organize and review the lecture material. It is important that you attend lectures and take notes.

EVALUATION:	6 quizzes (best 5 of 6) (5% each)	25%
	Final exam (cumulative April exam period)	35% (required)
	Lab Assignments and Test	40% (required)

Quizzes and exams will be based on lecture material, and readings from the text will help reinforce the concepts. Quizzes will be 20-30-minute, online, open book, multiple choice/short

PROPOSED COURSE OUTLINE

Date	Lecture Topic	Readings (7 th edition)	Lab topics
	<p data-bbox="288 483 459 517">Jan 20 - Quiz</p> <p data-bbox="288 730 448 763">Feb 3 - Quiz</p>		

Feb 17 - Quiz

Academic Policies and Regulations:

[Undergraduate policies and academic regulations](#) are described in the UVic Undergraduate Calendar. Please read very carefully the Policy on Academic Integrity, the Academic Concession Regulation/Guidelines, and Academic Important dates

sexualized violence resource office in Equity and Human Rights (EQHR). If you want to take part in the important prevention work taking place on campus, you can also contact the sexualized violence resource office in EQHR; Sedgewick C119, Phone: [250.721.8021](tel:250.721.8021), Email: svpcoordinator@uvic.ca