BIOLOGY 324 – BIOLOGY OF LAND PLANTS COURSE OUTLINE – WINTER TERM 2023

Monday, Thursday; 1:00 – 2:30 p.m. (face-to-face) Engineering and Computer Science (ECS) Rm. 124

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Course Objectives: To provide an understanding of the diversity in land plant anatomy, morphology, and modes of growth and reproduction; and of land plant evolution and the increasing complexity of plant form over time. Laboratory exercises are closely coupled to lecture topics and reinforce the concepts learned in class.

Textbook: Raven Biology of Plants, 8th Ed'n (2013), Evert & Eichhorn, Freeman Publ. (recommended)

Additional readings may be assigned.

Lab Manual: Biology 324 Laboratory Manual 2023 (required - available from the Bookstore)

Labs are held in Cunn 118 – Please attend the lab section in which you are registered.

Web Material: The slides for each lecture will usually be made available before class on the BIOL 324 Brightspace site. Please be aware that these are outlines, not detailed notes that are provided to help you organize and review the lecture material. Brightspace will also contain lab-related material, quiz results, general announcements, etc. Students should check the site for postings before coming to the lectures and labs.

Evaluation: Lab 35% (required)

Quizzes - 5% each, best 5/6 25% Midterm Exam (Feb 27) 10%

Final Exam - cumulative (April 2023) 30% (required)

Quizzes and exams will be based on lecture material, but readings from the text will help reinforce concepts. Quizzes will be 20-30-minute, online, open book, multiple choice/short answer tests to be completed individually, when convenient for you, between 2:00 and 6:30 p.m. on the noted days. Lectures will end at 2:00 p.m. on quiz days. The midterm exam will be an in-class, closed book, hard copy exam requiring short answers and diagrams. The final exam will be an in-person, closed-book, hard copy exam with multiple choice, short answer and diagram questions. There will be no deferred or supplemental quizzes, or midterm or final exams. If you miss the midterm for a medical reason, the evaluation breakdown will be adjusted accordingly. Deferred final exams will only be considered if a formal Request for Academic Concession is provided.

Letter Grade Conversion: A+ 90-100% A 85-89.5% A- 80-84.5%

B+ 77-79.5% B 73-76.5% B- 70-72.5% C+ 65-69.5% C 60-64.5% D 50-59.5%

F (fail) <49.5%

Proposed Course Outline 2023

DAT	E	LECTURE	TEXT	LABORATORY
Jan	9 12	Introduction Cells & tissues	Chapters 1 3, 23	No lab this week
	16 19	Roots Stems QUIZ	24 25	Organs, cell types & tissues
	23 26	Secondary growth Leaves	26 25	Roots & stems
Feb	30 2	First Land Plants & Bryophytes Bryophytes QUIZ	16 16	Secondary growth Evolution project due this week
	6 9	Fist Vascular Plants Lycophytes & Equisetophytes	17	Leaves & modified plant organs
	13 16	Ferns QUIZ	17 17	LAB EXAM 1
	20-24	Reading Break		No labs this week
Mar	27 2	MIDTERM Progymnosperms & Seed Plants	18 18	Evolution, life cycles & Bryophytes
	6 9	Cycads Ginkgo & Conifers QUIZ	18 18	Lycophytes & Monilophytes Bryophyte project due this week
	13 16	Conifers Gnetophytes	18	Gymnosperms
	20 23	Angiosperms - flowers Angiosperms - gametophytes QUIZ	19, 20 19, 20	Anthophytes I (flowers)
	27 30	Angiosperms - pollination Angiosperms - seed & fruit	19 20	Anthophytes II (fruit & seed) Anthophyte project due this week
Apr	3 6	Angiosperms - diversity Summary QUIZ	20	LAB EXAM 2

Academic Policies and Regulations:

<u>Undergraduate policies and academic regulations</u> 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.

Academic Integrity: Students are required to abide by all academic regulations set as set out in the <u>University calendar</u>, including standards of academic integrity. Violations of academic integrity (e.g. cheating and plagiarism) are considered serious and may result in significant penalties. The exams (quizzes, midterm and final exam) must all be completed **individually** and not with a friend or classmate or a group. You are prohibited from sharing any information about the exam with others.

Academic Concession Regulation/Guidelines:

Please refer to the links below when determining what is a 'valid reason' to request an Academic Concession and the process for requesting a concession.

Academic Concessions Regulation and Academic Concession Guidelines

Academic Important Dates:

Check <u>here</u>. It is the student's responsibility to attend to Add/Drop dates published in the Calendar (last day to add courses – Jan 25, last day to drop without failure – Feb 28). Students must not assume they will be dropped automatically from any course they do not attend. It is also the students' responsibility to check their records and registration status.

UVic Services:

Student Supports for Online Technology

Learn Anywhere: https://onlineacademiccommunity.uvic.ca/LearnAnywhere/

New Student Mental Health Supports - In addition to providing both face to face and online mental health resources through the Student Wellness Centre, a 24x7 phone & online student mental health resource and support program is available for all UVic students, no matter where they are located, at any time. https://www.uvic.ca/services/counselling/resources/supportconnect/

Counselling Services - Counselling Services can help you make the most of your university experience. They offer free professional, confidential, inclusive support to currently registered UVic students. https://www.uvic.ca/services/counselling/

Health Services - University Health Services (UHS) provides a full service, primary health clinic for students, and coordinates healthy student and campus initiatives. http://www.uvic.ca/services/health/

Centre for Accessible Learning - The CAL staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations. https://www.uvic.ca/services/cal/.

Elders' Voices - The Office of Indigenous Academic and Community Engagement (IACE) has the privilege of assembling a group of Elders from local communities to guide students and others in Indigenous ways of knowing and being. https://www.uvic.ca/services/indigenous/students/programming/elders/index.php

Sexualized Violence Prevention and Response - UVic takes sexualized violence seriously. We encourage students to learn more about how the university defines sexualized violence and its overall approach by visiting www.uvic.ca/svp. If you or someone you know has been impacted by sexualized violence and needs information, advice, and/or support please contact the 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,

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