

BIOL 449/ES 425 ó Flowering Plant Diversity

Course Outline - Winter Term, 2023

Lectures: Tuesday, Wednesday, Friday; 9:30-10:20 p.m. - Cunningham 146

Labs: Thursday, 2:30 Qq0.000008866 0 594.96 841.92 reW*nBT/F2 12 Tf1 0 0 1 367.82 672.43

flowering plants have evolved and diversified over time.

COURSE FORMAT: Andy and Kristen will alternate teaching sections of the course, with some guest lectures. Powerpoint slides for each lecture will be made available on the Brightspace site. **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. The labs will introduce you to flowering plant diversity (variation in flowers and vegetative structures), the use of keys, and many plant families of this region. The midterms and final exam will be based on lecture material. See below for evaluation details.

PROJECTS: In addition to regular labs, you will be assigned two field-based lab projects: 1. A collection of 10 properly pressed and correctly identified plant specimens. 2. An illustrated journal of flowering plant observations. More information will be available in the first lab, and on Brightspace.

TEXTS: Lecture: No text (references on reserve)

Lab: **C. L. Hitchcock and A. Cronquist. 2018. Flora of the Pacific Northwest, 2nd ed.** This is a newly updated edition, with excellent geographic coverage and botanical keys for our area. The 1st edition (1973), though it has outdated nomenclature and lacks some species, is also usable for the lab (required).

J. G. Harris and M. W. Harris. 1994. Plant Identification Terminology. Copies of other regional floras will be available for consultation (required).

EVALUATION:	Two midterm exams (15% each)	30%
	Final examination (cumulative)	20%
	Lecture Total (50%)	

Date	Instructor	Lecture topic
Jan 10	Andy and Kristen	Introductions, Course overview, Introduction to the Angiosperms
Jan 11	Kristen	Angiosperm structure and variation I
Jan 13	Kristen	Angiosperm structure and variation II
Jan 17	Kristen	Inflorescences; vegetative structures (roots & stems)
Jan 18	Kristen	Vegetative structures (wood, leaves, hairs)
Jan 20	Andy	A history of angiosperm classification and nomenclature
Jan 24	Andy	The hierarchy of classification: phylogenetic methods
Jan 25	Andy	Defining and describing species
Jan 27	Andy	Keys, ID, and herbaria
Jan 31	Andy	Molecular evidence in plant systematics
Feb 1	Kristen	MIDTERM EXAM #1
Feb 3	Andy	Origin and classification of angiosperms; basal lineages

Statement of Inclusion: The University of Victoria is committed to creating a learning

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/>.

Indigenous Academic & Community Engagement

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