

**BIOLOGY 324 BIOLOGY OF LAND PLANTS
COURSE OUTLINE SPRING TERM 2021**

Course Instructor: Dr. Lan Tran

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Lab Instructor: Dr. Vasko Veljanovski

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Course Objectives: To provide a basic understanding of land plant anatomy, morphology, diversity, and evolution. We will learn how plants reproduce and will study the increasing complexity of plant form over evolutionary time. Where applicable, examples of plant biology research will also be discussed.

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

Course Materials: Lecture materials will be made available on the course Brightspace site. Please be aware that the recorded lecture and slides are outlines, not detailed notes, to help you organize and review the material. Exams will be based on lecture material, but readings from the textbook and other literature where applicable will help reinforce the concepts. Lab materials will be available on MS Teams.

Evaluation:	Lab (synchronous)*	40%
	Midterm Exams	

Proposed Course Outline 2021

DATE (week of)	LECTURE	TEXT (Chapters)	LABORATORY
Jan 11	Introduction Cells & Tissues	1 3, 23	No labs this week
	Roots Stems		Organs, Cell Types & Tissues
	Secondary Growth Leaves		Roots and Stems
Feb 1	First Land Plants Bryophytes	16 16	Secondary Growth Evolutionary project due
8	MIDTERM I (Feb 12th) First Vascular Plants	17	Leaves & Modified Plant Organs
15	Reading Break		No labs this week
22	Lycophytes & Equisetophytes Ferns	17 17	Evolution, Life Cycles & Bryophytes
Mar 1	Progymnosperms & First Seed Plants Cycads		Lycopodiophyta & Monilophyta
8	Ginkgo & Conifers Conifers		Gymnosperms
15	MIDTERM II (Mar 19th)		