BIOLOGY 324 – BIOLOGY OF LAND PLANTS COURSE OUTLINE – SPRING TERM 2017

Monday and Thursday; 1:00 – 2:30 p.m. Engineering and Computer Science (ECS) Rm. 116

Course Instructor: Dr. Joe Antos email: jantos@uvic.ca

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Lab Instructor: Ms. Becca Westley email: rwestley@uvic.ca

Course Objectives: To provide a basic understanding of land plant anatomy, morphology, diversity and evolution. We will learn how plants grow and reproduce. Plant response to the environment will be explored on anatomical and morphological levels. We will discuss how plants evolved and the increasing complexity of plant form over time. Laboratory exercises are coupled closely to lecture topics and reinforce the concepts learned in class.

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

Additional readings may be assigned.

Lab Manual: Biology 324 Laboratory Manual 2017 (required - available from the Bookstore)

Web Material: The slides for each lecture will be made available soon after class on the BIOL 324 CourseSpaces site. Please be aware that these are outlines, not detailed notes, which are provided to help you organize and review the lecture material. They are not a substitute for attending class. Exams will be based on lecture material, but readings from the text will help reinforce the concepts.

Evaluation:	Lab	35%
	Midterm Exam I (Feb. 2)	15%
	Midterm Exam II (March 13)	15%
	Final Exam (April 2015)	35%

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 < 49.5%

There will be no make-up midterms or supplemental final exams. If you miss the midterm for a **documented** medical reason, the evaluation breakdown will be adjusted accordingly. Make-up final exams will only be considered if a formal Request for Academic Concession is provided.

Course Outline

DATE	E	LECTURE	TEXT	LABORATORY
			(Chapters)	
Jan.	5	Introduction	1	No lab this week
	9 12	Cells & tissues Roots	2, 3, 23 24	Organs, cell types & tissues
	16 19	Stems Secondary growth	25 26	Roots & stems
	23 26	First land plants Bryophytes	1, 12 16	Secondary growth Evolution project due this week
Feb.	30 2	Bryophytes MIDTERM I	16	Leaves & modified plant organs
	6 9	First vascular plants Lycophytes & equisetophytes	17 17	LAB EXAM 1
	13 16	Reading Break Reading Break		Reading Break – no labs
	20 23	Ferns Progymnosperms & first seed plants	17 18	Evolution, life cycles & bryophytes
Mar.	27 2	Cycads Ginkgo & conifers	18 18	Lycophytes & monilophytes Bryophyte project due this week
	6 9	Conifers Gnetophytes	18 18	Gymnosperms
	13 16	MIDTERM II Angiosperms - flowers	19, 22	Anthophyta (flowers)
	20 23	Angiosperms - gametophytes Angiosperms - pollination	19 20	Anthophyta (fruits and seeds) Anthophyte project due this week
	27 30	Angiosperms - seed & fruit Angiosperms - diversity	20 20	LAB EXAM 2
Apr.	3	Land plant evolution and ecology	20	