BIOLOGY 324 - BIOLOGY OF LAND PLANTS COURSE OUTLINE - SPRING TERM 2019

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

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

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Lab Co-ordinator: Rande Kanne email: kanner@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.	7 10	Introduction Cells & tissues	1 2, 3, 23	No lab this week	
	14 17	Roots Stems	24 25	Organs, cell types & tissues	
	21 24	Secondary growth First land plants	26 1, 12	Roots & stems	
28	28	Bryophytes	16	Secondary growth	
	31	Bryophytes	16	Evolution project due this week	
Feb.	4 7	MIDTERM I First vascular plants	17	Leaves & modified plant organs	
	11 14	Lycophytes & equisetophytes Ferns	17 17	LAB EXAM 1 THIS WEEK	
18 21		Reading Break Reading Break		Reading Break – no labs	
	25 28	Progymnosperms & first seed plants Cycads	18 18	Evolution, life cycles & bryophytes	
Mar. 4	4	Ginkgo & conifers	18	Lycophytes & monilophytes	
	7	Conifers	18	Bryophyte project due this week	
	11 14	Gnetophytes MIDTERM II	18	Gymnosperms	
	18 21	Angiosperms - flowers Angiosperms - gametophytes	19, 22 19	Anthophyta (flowers)	
	25	Angiosperms - pollination	20	Anthophyta (fruits and seeds)	
	28	Angiosperms - seed & fruit	20	Anthophyte project due this week	
Apr.	1 4	Angiosperms - diversity Land plant evolution	20 20	LAB EXAM 2 THIS WEEK	