APBI 210/BIOL 210: BIOLOGY OF VASCULAR PLANTS (January 2010)

COURSE DESCRIPTION -TENTATIVE OUTLINE & SCHEDULE

This course is designed to introduce you to the major lineages of vascular plants, including the ferns, gymnosperms and flowering plants. You will be introduced to basic plant structure and diversity, as well as topics in plant evolution. An understanding of vascular plants is essential for global citizens with interests in biodiversity, ecology, agriculture, forestry, medicine and biochemistry.

LECTURE SCHEDULE: M, W, F 11:00 – 12:00, Biological Sciences Building (BioSci) Rm 2000

LAB SCHEDULE: Thurs. 9:30-12:30 (L20/21); Thurs. 2:00-5:00 (L23/24); Fri 8:00-11:00 (L30/31); Fri 2:00-5:00 (L27/28) in BioSci 3001 and 3008.

COURSE INSTRUCTORS

Course coordinator: Ms. Shona Ellis, Office- BioSci room 2508. Office hours: Friday 12-1:45, or by appointment. Email via VISTA email or shona@interchange.ubc.ca

Dr. Sean Graham, Office- BioSci room 2109. Office hours: Friday 12-1, or by appointment. Email: swgraham@interchange.ubc.ca

LABS BEGIN JANUARY XXTH

The labs are an essential element of this course. They provide you with the opportunity to explore and supplement (touch, see, understand) much of the information presented in class. You must come to lab first week of classes. Please bring $20.00 (cash) for the lab fee (you will receive your lab manual). You should also bring your textbook to lab.

TEXT Biology of Plants, 7th edition, by Raven, Evert and Eichhorn (2005)

WEB SITE

The course web site is hosted by VISTA, and contains a wealth of useful information, including lecture outlines and diagrams, information about labs, images and interesting links. Access the website by going to www.elearning.ubc.ca and signing in using your campus-wide login.

GRADING PLAN

Lecture in-class test (1)	12%	February 3rd
Lecture in-class test (2)	12%	March 22nd
Lecture final examination	23%	*TBA*
Laboratory mid-term examination	18%	February 11th or 12th
Laboratory final examination	25%	April 7th or 8th
In-class clicker assignments	2%	
Assignments & VISTA quizzes	8%	

NOTE: Course policy for in-class tests and lab mid-term. These may only be missed in the event of a fully documented medical emergency. Alternative times for midterm make-up exams will be discussed with the lecturers. Those who miss the lab midterm will have additional stations added to their lab final exam that cover the pre-midterm material.

APBI210/BIOL 210 LECTURE & LAB SCHEDULE (WINTER 2009)

INSTRUCTORS: SEAN GRAHAM (SG), SHONA ELLIS (SE)

Date	Unit	Topic	Lecturer	Lab
Jan 4		Course Overview	SE/SG	**Lab 1 - Intro**
Jan 6	Unit 1	The Plant Cell	SE	
Jan 8		" " " "	SE	
Jan 11	Unit 2	Organization of Plant Body	SE	**Lab 2 Cell/Tissue**
Jan 13		" " " "	SE	
Jan 15	Unit 3	Major Tissue Systems	SE	
Jan 18		" " " "	SE	**Lab 3 - Roots**
Jan 20		" " " "	SE	
Jan 22	Unit 4	Roots	SE	
Jan 25		" " " "	SE	**Lab 4 - Stems**
Jan 27		" " " "	SE	
Jan 29	Unit 5	Shoots	SE	
Feb 1		" " " "	SE	**Lab 5 - Leaves**
Feb 3		IN-CLASS TEST: Covers content up to Feb 1 (12 lectures, 12% of course grade)	*TEST*	
Feb 5		" " " "	SE	
Feb 8		" " " "	SE	***Lab Midterm***
Feb 10	Unit 6	Photosynthesis	SE	
Feb 12		" " " "	SE	
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Mar 1	Unit 7	Phylogenetic Diversity of Plant Structure	SG	**Lab 6- Clubmosses & Horsetails**
Mar 3		" " " "	SG	
Mar 5	Unit 8	Sex in Vascular Plants	SG	
Mar 8		" " " "	SG	**Lab 7 - Ferns**
Mar 10		" " " "	SG	
Mar 12		" " " "	SG	
Mar 15		" " " "	SG	**Lab 8 - Conifers**
Mar 17	Unit 9	Seed Plants: Seeds & Pollen	SG	
Mar 19		" " " "	SG	
Mar 22		IN-CLASS TEST: Covers content from Feb 5 - Mar 17 (12 lectures, 12% of grade)		**Lab 9 - Angiosperms**
Mar 24		Seed Plants: Seeds & Pollen	SG	
Mar 26	Unit 10	The Flowering Plants	SG	
Mar 29		" " " "	SG	**No Labs**
Mar 31		" " " "	SG	
Apr 2		*Good Friday - Holiday*		
Apr 5		*Easter Monday - Holiday*		***Lab Final Exam***
Apr 7		The Flowering Plants	SG	
Apr 9		" " " "	SG	
Apr 12	Unit 11	Evolutionary Themes in Vascular Plants	SG	
Apr 14	Unit 12	Vascular Plants & Humanity	SG	