

## BIOLOGY 325 – TREE BIOLOGY – COURSE OUTLINE - FALL 2020

<b>Course Instructors:</b>	Dr. Patrick von Aderkas	Dr. Jürgen Ehltling
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<b>Laboratory Teaching Assistant:</b>	Sarah Lane	
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*Course offerings are pre-recorded; Live sessions are highlighted in yellow*

Lecture	Weekly Q&A sessions & Quizzes	Laboratory
<b>Week 1 (Wed. Sept. 9 to Fri. Sept. 11)</b>		
L - Course Intro. What is a tree?	Wed. 1:30-2:00: Introduction	
Morphology and anatomy: Evolution of tree-like growth		none
<b>Week 2 (Mon. Sept. 14 to Fri. Sept. 18)</b>		
Morphology & anatomy: Classification systems	Tue. 1:30-2:15: <b>trial Quiz</b>	
Morphology & anatomy: Wood development 1		
Morphology & anatomy: Wood development 2	Fri. 1:30-2:00: Q&A	Tree Identification
<b>Week 3 (Mon. Sept. 21 to Fri. Sept. 25)</b>		
Leguminous trees	Tue. 1:30-2:15: <b>Quiz 1</b>	
Reproductive biology		
Reproductive biology	Fri. 1:30-2:00: Q&A	none
<b>Week 4 (Mon. Sept. 28 to Fri. Oct. 2)</b>		
Reproductive biology		
Reproductive biology		
Reproductive biology	Fri. 1:30-2:00: Q&A	Wood anatomy
<b>Week 5 (Mon. Oct. 5 to Fri. Oct. 9)</b>		
<b>DEADLINES: <i>essay choice</i> &amp; <i>Lab 1 assignment</i></b>		
Reproductive biology	Tue. 1:30-2:15: <b>Quiz 2</b>	
Tree biogeography (no lecture)	Fri. 1:30-2:00: Q&A	none
<b>Week 6 (Mon. Oct. 12 to Fri. Oct. 16)</b>		
<b>Thanksgiving</b>		
Tree biogeography		
Annual Cycles		
Annual cycles	Fri. 1:30-2:00: Q&A	none
<b>Week 7 (Mon. Oct. 19 to Fri. Oct. 23)</b>		
Adaptation and Acclimation	Tue. 1:30-2:15: <b>Quiz 3</b>	
Soil and nutrients		
Tree architecture	Fri. 1:30-2:00: Q&A	Tree architecture
<b>Week 8 (Mon. Oct. 26 to Fri. Oct. 30)</b>		
Drought		
Flooding		
Fire	Fri. 1:30-2:00: Q&A	Culturally imp't tree tour

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Lecture	Weekly Q&A session (live), Quiz	Laboratory
<b>Week 9 (Mon. Nov. 2 to Fri. Nov. 6)</b>		
Tree-insect interactions	Tue. 1:30-2:15: <b>Quiz 4</b>	
Tree insect interactions		
Tree pathogen defense	Fri. 1:30-2:00: Q&A	none
<b>Week 10 (Mon. Nov. 9 to Fri. Nov. 13)</b>		
<b>Reading Break (no lecture)</b>		
<b>Remembrance Day (no lecture)</b>		
How to give a talk	no live session this week	none (Essays due)
<b>Week 11 (Mon. Nov. 16 to Fri. Nov. 20)</b>		
Forest harvesting and reforestation		
Tree breeding and genetics		
Tree Genomics	Fri. 1:30-2:00: Q&A	Logging and reforestation
<b>Week 12 (Mon. Nov. 23 to Fri. Nov. 27)</b>		
Medicinal uses of trees	Tue. 1:30-2:15: <b>Quiz 5</b>	
Tree biotechnology		
None (taken up with presentations)	Fri. 1:30-4:30: Student Presentations	
<b>Week 13 (Mon. Nov. 30 to Fri. Dec. 4)</b>		
Urban trees and forestry	Tue. 1:30-2:00: Q&A	
Cycads in Japan		
None (taken up with presentations)	Fri. 1:30-4:30: Student Presentations	
<b>Exam Period Dec 7 - 21</b>		
	Time TBD: Q&A (1h)	
	Time TBD: <b>Final Exam</b>	

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<b>Mark breakdown:</b>	%
Quizzes (best four out of five)	20
Essay	20
Oral presentation	5
Laboratory	25 * see breakdown below
Participation	5
<u>Final exam</u>	<u>25</u>
Total	100

*Lab assignments (relative value – percentage)	Quizzes (best 4/5 - 5% each; total 20%)
Tree Identification 40	trial Tues Sept 15
Wood anatomy 15	no. 1 Tues Sept 22
Tree architecture 20	no. 2 Tues Oct 6
Culturally imp't tree tour 15	no. 3 Tues Oct 20
<u>Logging and reforestation 10</u>	no. 4 Tues Nov 3
Total 100	no. 5 Tues Nov 24

<b>Grading system:</b>	Percentages converted to letter grades				
A+ 90-100	A 85-89	A- 80-84	B+ 77-79	B 73-76	B- 70-72
C+ 65-69	C 60-64	D 50-59	F 0-49		

Quizzes will be approximately 30 minutes each, but may vary at the discretion of the instructor.

There will neither be any supplemental quizzes nor a supplemental final exam.

Please note –We assign a zero for any missed elements.

Students must abide by academic regulations as set out in the university calendar. They must observe standards of scholarly integrity with regards to plagiarism and cheating. Please read the definitions, watch the tragi-comic video and look at the other information available at the following link

<https://www.youtube.com/watch?v=U7dy5GIxyHk>

**Important dates** (from UVic calendar)

Sept. 22, Thursday: Last day to drop courses for a 100% reduction of tuition fees for first term courses.

Sept. 25, Friday: Last day for adding this course.

Sept. 30, Tuesday: Last day for paying first-term fees without financial penalty.

Oct. 12, Monday: Thanksgiving

Oct. 13, Tuesday: Last day to drop courses for a 50% reduction of tuition fees. 100% of tuition fees will be assessed for this course dropped after this date.

Oct. 31, Saturday: Last day for dropping this course without penalty of failure.

Nov. 9-11, Monday - Wednesday: Reading Break.

Dec. 4, Friday: Last day of class in the first term.

Dec. 7 – 21: Monday - Monday: Examination period