

Biology 130 (Honors): Introduction to Plant Biology Lecture Syllabus

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Office Hours: Tue/Thur/Fri 11:00 – 12:00 or by appointment

Lecture: Tue/Thur/Fri 9:00 – 9:50 in CBB 165
Lab: Mon/Wed 1:00 – 2:50 in CBB 176

Required Texts: *Raven Biology of Plants*, Evert *et al.*, 8th ed., ISBN: 978-1429219617 (rental)
The Botany of Desire, Pollan, ISBN: 978-0375760396 (purchase)
Biology 130 Lab Manual (purchase)

Course Description: This course introduces students to the fundamental principles of biology, with special emphasis on the molecular and cellular biology, growth, reproduction, structure, function, genetics, diversity, ecology, and evolution of plants.

Lab: In addition to attending lecture you will meet in lab twice per week throughout the semester. There are a number of assignments and quizzes/exams associated specifically with lab. A separate syllabus for lab will be given to you during your first lab meeting (Wed, Jan 23).

Exams: The lecture component of this course includes four exams total: three midterms and a final. Midterm exams will occur during our regular lecture time (see lecture schedule, below, for dates). Midterm exams are not cumulative, per se; however, topics covered later in the semester build upon ideas covered earlier in the semester. The final exam is cumulative though it will be weighted slightly toward material covered at the very end of the semester (i.e., material covered after midterm III). The final exam is also worth a bit more than the midterms (see grading, below).

The Botany of Desire: We will read and discuss *The Botany of Desire* as we move through the semester, and we will set aside some time to talk about the book on five occasions during lecture, each time focusing on a specific portion (the Introduction and each of the four chapters). A short quiz will accompany each of those discussions. See lecture schedule, below, for dates.

Attendance: I do not take attendance during lecture. However, I assure you that students who regularly attend and participate in lecture learn more and do significantly better in terms of their course grade than students who habitually skip and/or are late. Do not fool yourself into thinking that your textbook and access to my lecture slides is a substitute for attending lecture! They are not.

Make-up Policy: Make-ups for missed exams and quizzes are given only in truly extraordinary situations. Make-ups are time-consuming and difficult to administer and students usually do poorly on them. However, if you have a university-sanctioned event or have an emergent medical situation, death in the family, etc., you can take a make-up. In order to qualify for a make-up, you must talk with me and provide a written, verifiable excuse from a relevant authority figure (medical doctor, minister, coach, etc.) preferably at least a week before and certainly no later than 48 hours after the missed exam or quiz. I reserve the right to verify the legitimacy of all excuses by contacting the authority figure.

Grading: The total number of points possible in this course is 695. Of these, 365 points are allocated to lecture, and 330 points are allocated to lab. A breakdown of how these points are distributed follows:

	Activity	# points possible
Lecture	Midterm exams (3)	80 each
	Final exam	100
	The Botany of Desire Quizzes (5)	5 each
Lab	See lab syllabus for details	330

Your final grade in this course will be based on the percentage of all possible points (from both lecture and lab) that you earn throughout the semester. To determine your final grade, the following metric will be used:

≥ 94%	90- 93%	87- 89%	84- 86%	80- 83%	77- 79%	74- 76%	70- 73%	67- 69%	60- 66%	≤ 59%
A	A-	B+	B	B-	C+	C	C-	D+	D	F

Students with Disabilities: I will be happy to help you if you need special accommodations to succeed in this course. Please visit the UWSP Student Disability and Assistive Technology Center (located in LRC 609) to document your needs and contact me so that appropriate arrangements can be made. More information: <http://www.uwsp.edu/disability/Pages/default.aspx>

Academic Integrity: It is your responsibility to be aware of your rights and responsibilities as a UWSP student. Please take the time to read and understand the information found here (and let me know of any questions): <https://www.uwsp.edu/dos/Documents/CommunityRights.pdf>

Lecture and Exam Schedule: All lecture topics are associated with reading assignments in your textbook. Note that I reserve the right to change this schedule, with due notice, as we progress through the semester.

Date	Topic	Associated reading (chapters in Raven)
1/22	Course introduction; biochemistry	1 (and chemistry review slides on D2L)
1/24	Biochemistry	2
1/25	Biochemistry	2
1/29	Quiz I: BOD Introduction and Plant cells	3
1/31	Plant cells	3
2/1	Plant cells	3
2/5	Plant cells	3
2/7	Plant tissues, meristems, and primary growth	23
2/8	Plant tissues, meristems, and primary growth	23
2/12	Secondary growth	26
2/14	Quiz II: BOD Chapter 1 and Roots	24
2/15	Midterm I	
2/19	Shoots	25
2/21	Shoots	25
2/22	Plants and water	4 & 30
2/26	Enzymes and respiration	5 & 6
2/28	Enzymes and respiration	5 & 6
3/1	Photosynthesis	7
3/5	Photosynthesis	7
3/7	Hormones	27
3/8	Genetics	8
3/12	Quiz III: BOD Chapter 2 and Genetics	8
3/14	Genetics	8
3/15	Midterm II	
3/26	Genetics	8
3/28	Genetics	8
3/29	Biodiversity; viruses; bacteria	12 & 13
4/2	Biodiversity; viruses; bacteria	12 & 13
4/4	Fungi	14
4/5	Protists	15
4/9	Bryophytes	16
4/11	Bryophytes	16
4/12	Seedless vascular plants	17
4/16	Seedless vascular plants	17
4/18	Gymnosperms	18
4/19	Midterm III	
4/23	Gymnosperms	18
4/25	Angiosperms	19 & 20
4/26	Angiosperms	19 & 20
4/30	Quiz IV: BOD Chapter 3 and Angiosperms	19 & 20
5/2	Angiosperms	19 & 20
5/3	Introduction to ecological and evolutionary theories	
5/7	Introduction to ecological and evolutionary theories	
5/9	Introduction to ecological and evolutionary theories	
5/10	Quiz V: BOD Chapter 4 and introduction to ecological and evolutionary theories	
5/13	Final Exam 8:00-10:00 AM in CBB 165	

