

# BIOLOGY 1304 Fall 2003

Course Reference Number 10710 Tentative Syllabus

## PLANT BIOLOGY & LAB

CRN 10710: M W 5:30 - 8:20 PM 302 Howell Hall http://www.metabolism.net/bidlack

http://biology.ucok.edu/bidlack

## **Dr. Jim Bidlack**

301B Howell Hall (405) 974-5927 E-Mail: jbidlack@ucok.edu Office Hrs: 3:30 - 4:30 MTWR

<u>PLANT BIOLOGY AND LABORATORY</u>: An introduction to plant cells, plant morphology, plant anatomy, plant physiology, and plant diversity. Laboratory and lecture are integrated with three hours of lecture and three hours of laboratory per week. *No college prerequisites*; high school biology and/or science is required.

### DATE LECTURE TOPIC

LAB TOPIC

#### **READING (TEXT)**

Augu	ist		
	Course description: what is a plant?	Plant biology & diversity	1-11,12-14,135,290-298
20 W	Plant morphology & identification Plant identification	Plant morphology & key const. Plant biology & scientific method	53-55,86-90,109-114,135 7-8,286-298
20 W	Scientific method	r lant blology & scientific method	7-0,200-290
25 M	Campus trees Monocots and dicots	FALL FIELD TRIP	See lab manual
27 W	Inorganic & organic chemistry	Use of the microscope	12-21
	<b>Biological molecules</b>	-	21-27
Sonto	mhor		
1 M	ember HAPPY LABOR DAY!		
	Biological molecules (continued)	Plant compounds	21-27,232-234
	Cell structure & function	-	28-44,50
8 M	Cell structure & function (continued)	Plant cells & organelles	36-43,50-52
	Cell organelles	LAB CHECK #1	36-43,50-52
10 W	L	Plant cells & organelles	36-43,154-159
	Mitosis	Mitosis & meiosis	44-52,221-229,443-449
15 M	Meiosis	Mitosis & meiosis	44-52,221-229,443-449
17 W	EXAM I	LAB EXAM I	
	Apical meristems	Plant tissues	53-55,86-91
22 M	Plant cells & tissue types	Plant tissues (continued)	53-64
24 W	Roots	Root anatomy	65-85
29 M	Stems: primary growth	Stem anatomy	86-92
Octo	ber		
1 W	Stems: primary growth (continued) Stems: secondary growth	Stem anatomy	86-108

#### DATE LECTURE TOPIC

#### I AR TOPIC

### **READING (TEXT)**

89-90,487-518

DA	TE	<u>LECTURE TOPIC</u>	LAB TOPIC	<u>READING (TEXT)</u>
0	ctol	ber (continued)		
6	Μ	Leaves	Leaf anatomy	109-129
8	W	<b>Overview of metabolism</b>	Overview of metabolism	20-21,170-172
		Photosynthesis: light reactions	Photosynthesis	170-182
13	Μ	Photosynthesis: dark reactions	Photosynthesis	182-186
		INTERNET PROJECT DUE		
15	W	Cellular respiration	Respiration	186-196
		Review of metabolism		
20	М	EXAM II	LAB EXAM II	
		Classification	Classification	286-298
22	W	Fungi	Fungi	355-380
27	Μ	Algae	Algae	310-314,325-354
29	W	Bryophytes	Bryophytes	381-395
Ν	ove	mber		
3		Lower vascular plants	Lower vascular plants	396-420
5		Gymnosperms	Gymnosperms	421-440
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10	Μ	EXAM III	LAB EXAM III	
		Flowering plants	Flowers and angiosperm life cycle	130-136,449-450,480-481
12	W	Angiosperm life cycle	Flowers and angiosperm life cycle	221-223,441-460
17	Μ	Fruits	Fruit morphology and anatomy	130-147
19	W	Seeds & seedlings	Seed and seedling morphology	147-153
			LAB CHECK #2	
24	М	Plant growth regulation	Plant hormones	197-220
		Plant propagation		253-272
26	W	HAPPY THĂNKSGIVING!		
D	ecei	mber		
1		Absorption & transport	Plant nutrition	154-169
		▲ <b>▲</b>		

LAB EXAM IV 3 W Ecology

FINAL EXAMINATIONS 8-12

CRN 10710: Final Exam is Wednesday, 10 December at 5:30 - 7:20 PM. The Final Exam will be approximately 1/2 comprehensive and 1/2 new material.

Additional course information: Students are encouraged to read the book before coming to class. Review what pages will be discussed in lecture by looking at the pictures, figures, and illustrations. Read the chapter summary and then move on to reading the text to acquaint yourself with the learning material. If you prefer computer, Internet, and multimedia presentations of the material, go to the textbook website at http://www.mhhe.com/botany (there are computers available for your use in Room 303 of Howell Hall). After lecture and lab, you should review your notes and try the practice exams that are available at the **University Copy Center.** 

## BIOLOGY 1304 & 1304L PLANT BIOLOGY & LAB

## Fall 2003 - CRN 10710

Instructor: Dr. Jim Bidlack Office Phone: (405) 974-5927 UCO Weather Line: (405) 974-2002

E-Mail: jbidlack@ucok.edu

Internet: http://www.metabolism.net/bidlack or http://biology.ucok.edu/bidlack

Office hours: 3:30 - 4:30 MTWR, 301B Howell Hall Avoid Scheduling Office Visits Just Before Class

- Textbook: Stern, K.R., S. Jansky, and J. Bidlack. 2003. <u>Introductory Plant Biology</u>. 9<sup>th</sup> edition. The McGraw-Hill Companies, Inc., Dubuque, IA.
- Lab Manual: Bidlack, J.E., and R.W. Myster. Fall 2003. *Laboratory Manual for Plant Biology*. 2<sup>nd</sup> edition. Available at the University Copy Center.
- Lab tools: Supplies may include drawing paper (blank white paper), lead and color pencils, ruler, eraser, compass, and a dissecting kit (NO SCALPELS).
- Attendance: Students are expected to attend all classes.

#### Grading: An approximate breakdown of points for the course is as follows:

3 lecture exams @ 100 points each		300
4 lab exams @ 50 points each	200 50 50	
2 lab checks @ 25 points each		
1 Internet project @ 50 points		
1 final exam @ 200 points	200	
TOTAL POSSIBLE POINTS	800	
Grading scale	Grade	Minimum points needed
90 - 100% of total possible points	Α	720
80 - 89% of total possible points	В	640
70 - 79% of total possible points	С	560
<ul> <li>70 - 79% of total possible points</li> <li>60 - 69% of total possible points</li> </ul>	C D	560 480

- Exam material: Lecture, lab, and the final exams will consist mostly of multiple-choice, matching, true-false, short answer, and short essay questions. All exams count in determining the final grade. For best performance, read the assigned text before attending lecture and review lecture notes after each class. Sample exams are available at the UCO copy center. These sample exams should be used as a study guide and not as the sole source for exam preparation. Make-up lecture exams will be given only in extenuating circumstances and will usually consist of long essay questions. There will be no make-up lab exams. Should you miss a lab exam, you will receive a zero for that exam.
- **Cheating:** All work should be that of the student alone. If it is determined by the instructor that a student has cheated on an exam or any assignment, the student will receive no credit for that exam or assignment and the student's name will be reported to the proper authorities.
- Special Needs : Students with disabilities who believe they may need accommodations in class are encouraged to contact the Disability Support Services at 974-2549.