

Fall 2015

BIOS 4844

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University of New Orleans

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Recommended Citation

Bell, Charles, "BIOS 4844" (2015). *University of New Orleans Syllabi*. Paper 119.
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Biology 4844 - **Plant Taxonomy**
Fal 2015

Meetings: Lecture Tues&Thurs 8am-9:15am; Biology 216
Lab: Wed 2:00pm -4:45pm; Biology 216

Instructor: Charles "Chuck" Bell

Office: BIOL 209; 504-280-7040

Office Hours: Mon 8am—10am; Tues & Thur 10am-noon

Email: cdbell1@uno.edu; Homepage: <http://www.phylodiversity.net/cbell>

Prerequisites: BIOS2014

Textbook (*optional*): Judd, W. S., C. S. Campbell, E. A. Kellogg, P. F. Stevens, & M. J. Donoghue. 2007. *Plant Systematics: A Phylogenetic Approach*, third edition. Sinauer Associates, Inc.

Course webpage: <http://phylogeny.uno.edu/groups/planttaxonomy/>

Course Learning Objective, Outcomes, & Goals: To become familiar with the origin, diversification, basic morphology, adaptations, and evolutionary relationships among oxygenic, photoautotrophic organisms (cyanobacteria, algae, and plants), with an emphasis on flowering plants.

Grading Policies and Procedures:

4 Hour Exams (100 points each) = 400 points

10 Lab Quizzes (20 points each) = 200 points

2 Lab Practicals (100 points each) = 200

*Virtual Collection (200 points)

Note: there will **NOT** be any opportunity for extra credit. Grades will be determined exclusively from the exams. Letter grades will be based on total points earned:

A = 90-100%; B = 80-89%; C = 70-79%; D = 60-69%; 0-59% = F.

***Virtual Collection:** The virtual collection will consist of 30 digital photos of 30 different 'families.' The photos will have to be of a quality that I can identify them to 'family.' This project should be turned in no later than the date/time that your final exam (4th exam) is scheduled.

Class Attendance: As a student in this course, you should be regular and punctual in class attendance. ****Make-up exams will ONLY be permitted (at my discretion) provided that a University approved absence is demonstrated.**** STUDENTS MUST CONTACT ME PRIOR TO THE EXAM OR WITHIN 36 HOURS AFTER THE EXAM OR YOU WILL NOT BE ALLOWED TO TAKE A MAKE-UP EXAM.

Academic Dishonesty: No form of academic dishonesty will be tolerated. A grade of 0 (F) for the entire course will be given if a student is caught cheating or plagiarizing. Using material from other sources without attribution is a form of cheating and is a violation of the UNO judicial code. Cheating of any kind on any assignment will result in a grade of F for the assignment and will be referred to the Assistant Dean for Judicial and Student Assistance for disciplinary action. For more information on University policies regarding plagiarism and other forms of academic dishonesty, see the UNO Student Policy Manual at <http://www.uno.edu/~stlf/>.

Student Conduct: Students will be respectful to everyone in the classroom. Students will refrain from use of cell phones at ALL times. Disruptive students will be asked to leave class and not return until following meeting.

Students with Disabilities: *It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability*

to participate in course activities or to meet course requirements. Students with disabilities are encouraged to contact their instructors to discuss their individual needs for accommodations.

This material is available in alternative formats upon request. Please contact:
Coordinator, Disabled Student Services, 260 University Center, 286-6222 (voice/TDD) or 286-3975 (fax).

<u>Date</u>	<u>Tentative Lecture Schedule</u> <u>Topic (pages/chapters to read)</u>	<u>Laboratory</u>
Thursday, August 20	NO CLASS MEETING.	Wednesday Aug 19: No Lab
Tuesday August 25	Class Introduction; What is a plant?; Overview of "plant" phylogeny	Wednesday August 26 Lab 1: Plant vegetative morphology, Key making
Thursday August 27	Review of phylogenetics	Lab 2: Floral & Fruit morphology
Tuesday Sept 1	Overview of seed plants	Wednesday Sept 2 Lab 3: ferns & gymnosperms
Thursday Sept 3	Overview of flowering plants, Characters of angiosperms	
Tuesday Sept 8	EXAM #1	Wednesday Sept 9: No Lab
Thursday Sept 10	a digression on taxonomy & nomenclature	
Tuesday Sept 15	"basal" relationships of angiosperms	Wednesday Sept 16 Lab 4: basal angiosperms
Thursday Sept 17	monocots I	
Tuesday . Sept 22	monocots II	Wednesday Sept 23 Lab 5: monocots
Thursday Sept 24	monocots III	
Tuesday Sept 29	eudicots: basal grades	Wednesday Sept 30 Lab 6: monocots cont & "basal" eudicots
Thursday October 1	Speciation & Hybrids	
Tuesday Oct 6	Caryophyllids	Wednesday Oct 7 Lab 7: Caryophyllids
Thursday Oct 8	Asterids I	
Tuesday Oct 13	EXAM #2	Wednesday Oct 14 LAB PRACTICAL 1
Thursday Oct 15	NO CLASS- BREAK	
Tuesday Oct 20	Asterids II	Wednesday Oct 21 Lab 8: Asterids
Thursday Oct 22	Basal rosids	
Tuesday Oct 27	Rosids I	Wednesday Oct28 Lab 9: Rosid lab 1
Thursday Oct 39	Rosids II	
Tuesday Nov 3	Rosids III	Wednesday Nov 4 Lab 10: Rosid lab 2
Thursday Nov 5	EXAM #3	
Tuesday Nov 10	Biogeography	Wednesday Nov 11 No Lab
Thursday Nov 12	Freaky families	
Tuesday Nov 17	Ethnobotany	Wednesday Nov 18 lab review (Field Trip?)
Thursday Nov 19	Polyploidy	

Tuesday Nov 24
Thursday Nov 26

Review
Thanksgiving- NO CLASS

Wednesday Nov 25 lab
review (Field Trip?)

Tuesday Dec 1

EXAM #4

Wednesday Dec 2 **LAB**
PRACTICAL 2

Thursday Dec 2

Last Day of Class! Collecions due