

**Plant Biology 211**  
**Diversity of Life**  
**Winter 2007**

**Summary:** In this course, we will survey the life cycles, morphology, and phylogeny of major clades of organisms, with emphasis on plants, fungi, and protists.

**Instructor:** Philip D. Cantino

**Office Hours:** By appointment (please email me: [cantino@ohio.edu](mailto:cantino@ohio.edu))

**Text:** Raven, P. H., R. F. Evert, and S. E. Eichhorn. Biology of Plants, 7<sup>th</sup> edition (2005), Freeman & Co., New York.

**Basis for Grade:**

First Lecture Exam	20%
Second Lecture Exam	20%
Lecture Final	25%
Lab	30%*
Attendance	5%

\*A passing grade in lab is required to pass the course.

**Examinations:**

First Lecture Exam: Monday, February 5, 9:10 a.m.

Second Lecture Exam: Monday, February 26, 9:10 a.m.

Lab Final: Wednesday, March 7, regular lab time

Lecture Final (comprehensive): Friday, March 16, 10:10 a.m.

**Attendance Policy:** Attendance, taken in lecture on 10 randomly chosen days, counts 5% of the course grade. In addition, exam questions are based heavily on lecture material, some of which is NOT in the text. Lab attendance is mandatory. Any unexcused absence from lab will result in the lowering of your course grade by one notch (e.g., from an A- to a B+).

Legitimate reasons for missing a lab include illness, death in the immediate family, religious observance, and involvement in University-sponsored academic activities. Other reasons will be considered on a case by case basis. Any absence other than for illness or death in the family must be cleared in advance with the course instructor or the lab instructor.

In order to schedule a make-up exam, you must contact the course instructor (P. Cantino) within 24 hours after an exam that was missed due to illness or death in the family.

**Academic Dishonesty:** Any student caught cheating on a quiz or exam will fail the course.

## Tentative Course Schedule

<u>Dates</u>	<u>Lecture Topics</u>	<u>Text Pages</u>
Jan. 3-8	Introduction Evolution and systematics	37-38, 226-235 198-200, 219-226
Jan. 10-12	Bacteria Eukaryotic life cycles	239-252, 258 141-142, 147 158-160, 235-237
Jan. 17-24	Fungi, lichens	260-295
Jan. 24-31	Slime molds, water molds, algae	296-344
Jan. 31 – Feb. 2	Bryophytes	345-367
<u>Feb. 5</u>	<u>First lecture exam</u> (through algae)	
Feb. 7-9	Pteridophytes (vascular plants that do not reproduce by seed)	368-407
Feb. 12-16	Reproduction by seed; gymnosperms	408-433
Feb. 19-Mar 5	Angiosperms	434-451, 460-470
<u>Feb. 26</u>	<u>Second lecture exam</u> (through gymnosperms)	
Mar. 7-9	Recapitulation of phylogeny; review for final	
<u>March 16 (Friday), 10:10 a.m.: Final Lecture Exam</u>		

PBIO 211 Lab Schedule  
Winter 2007

No labs in Week 1

Week 2

Mon., January 8

Lab 1. Introduction to Major Taxa

Wed., January 10

Lab 2. Microscopy; Initiating Cultures & Mini-marshes

Week 3

Mon., January 15

NO CLASS (MARTIN LUTHER KING DAY)

Wed., January 17\*\*

Lab 3. Bacteria

Week 4

Mon., January 22\*

Lab 4. Fungi I

Wed., January 24

Lab 5. Fungi II

Week 5

Mon., January 29\*

Lab 6. Protista I

Wed., January 31

Lab 7. Protista II

Week 6

Mon., February 5

Lab 8. Bryophytes

Wed., February 7\*

Lab 9. Psilophyta, Lycophyta, Sphenophyta

Week 7

Mon., February 12\*

Lab 10. Ferns

Wed., February 14

Lab 11. Gymnosperms

Week 8

Mon., February 19

Lab 12. Angiosperms (flowers)

Wed., February 21\*

Lab 13. Angiosperms (life cycle)

Week 9

Mon., February 26\*

Lab 14. Angiosperms (fruits)

Wed., February 28

NO LAB (weekend field trip instead)

**Sat., March 3, 1-5 pm**

**FIELD TRIP (1-3 PM lab)**

**Sun., March 4, 1-5 pm**

**FIELD TRIP (3-5 PM lab)**

Week 10

Mon., March 5

Lab Review

Wed., March 7

Lab Final

\* Quiz covering the previous week's labs

\*\* Lecture quiz, to be taken during lab