

**SCHEDULE for BIOLOGY 1450  
FALL SESSION 2009**

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<b>DATES</b>	<b>LECTURE</b>	<b>LAB</b>	<b>TEXT</b>
August 24-28	Introduction/Cell Structure and the Cell Cycle	(1) The Microscope and Cell Structure	pp. 1-13, 35-70
Aug. 31-Sept. 4	Biochemistry/Cell Transport/ Enzymes	(2) Cell Division and Movement into and out of Cells	pp. 15-34, 71-87
<b>Sep. 7 Labor Day</b> Sept. 8-11	Photosynthesis and Respiration	(3) Photosynthesis	pp. 89-139
Sept. 14-18	Genetics and Molecular Genetics	(4) Meiosis and Mendelian Genetics	pp. 141-179
Sept. 21-25	<b>LECTURE EXAM #1</b> Classification/ Prokaryotes	<b>LAB PRACTICAL #1</b>	pp. 219-259
Sep. 28-Oct. 2	Kingdom Fungi	(5) Prokaryotes and Fungi	pp. 260-295
Oct. 5-9	Kingdom Protista	(6) Kingdom Protista	pp. 296-344
Oct. 12-16	Bryophytes and Lycophytes	(7) Plant Kingdom: Bryophytes and Lycophytes	pp. 345-388
<b>Fall Break</b> <b>Oct.19-20</b> Oct. 21-23	Ferns and Gymnosperms/ Intro to the Seed Plants	(8) Plant Kingdom: Ferns and Gymnosperms	pp. 389-433
Oct. 26-30	<b>LECTURE EXAM #2</b> Angiosperms, Fruits, Pollination	<b>LAB PRACTICAL #2</b>	pp. 434-474
Nov. 2-6	Angiosperm Development, Cells and Tissues	(9) Angiosperms: Flowers and Fruits Plant #12	pp. 497-527

Nov. 9-13	Angiosperm Anatomy	(10) Angiosperms: Embryos, Roots & Stems Transplant #12	pp. 528-601
Nov. 16-20	Internal Control of Development (hormones)	Angiosperms: Leaves & Secondary Growth Treat #12	pp. 603-621
Nov. 23-24 <b>Nov. 25-27</b> <b>Thanksgiving</b> <b>Break</b>	Hormones (cont.) Photoperiodism and External Controls	<b>NO LAB</b>	pp. 622-644
Nov. 30-Dec. 4	Soils, Mineral Nutrition	(12) Plant Growth Regulators Complete #12	pp. 645-686
Dec. 7-11	Transport Systems, Review	<b>LAB PRACTICAL #3</b>	

<b>FINAL EXAMINATION: Thursday, DECEMBER 17, 8:30-10:30 a.m.</b>
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### TEXTBOOKS

Raven, P., R. Evert & S. Eichorn. 2005. *Biology of Plants*. 7th Edition. W. H. Freeman/Worth Publishers, New York, NY.

S. R. Rushforth, R. R. Robbins, J. L. Crawley & K. M. Van De Graff. 2008. *A Photographic Atlas for the Botany Laboratory*. Fifth Edition. Morton Publishing Co., Englewood, CO.

**LAB MANUAL:** Egan, R., D. Sutherland & L. Boucher. 2009. *Biology 1450 Laboratory Manual*. Available at the UNO Bookstore.

**LECTURE NOTES:** *Outlines of PowerPoint Lecture Presentations, Fall 2009*. R. S. Egan. Available at the UNO Bookstore.

### GRADING:

Each LAB TEST will be worth 100 points.	300
Each LECTURE EXAM will be worth 100 points.	200
The FINAL LECTURE EXAM (comprehensive).	200

The usual university grading scale will be used. Plus (+/-) grades will only be considered at the end of the semester. I will do the best I can to keep you informed of your "approximate" grade status as the semester progresses.

*If you have any questions or problems, please see me immediately.*