

# BIOL 191L COLLEGE BIOLOGY I/BOTANY LABORATORY FALL 2008

Instructor: Dr. Brian Vanden Heuvel

Office: LS 248

Office Hours: Monday 10-11AM, Tuesday 1-2PM, Wednesday 10-11AM, and Friday 10-11AM

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Co-requisites: BIOL 171 (Career Planning I) and BIOL 191L (College Biology I Laboratory) are co-requisites for this course. BIOL 191 and 191L are designed as a unit to be taken together in order to reinforce the concepts presented. Both 191 and 191L must be taken the same semester.

Prerequisites: One year of high school algebra or equivalent (MATH 098), and one-year of high school chemistry or equivalent, and one year of high school biology or equivalent. If you have concerns regarding your preparation for this course, please see the instructor immediately.

Textbook:

Vanden Heuvel, B. 200. *Biology191L Lab Manual*, Fountainhead, ISBN 1-59871-029-X

The text is required of all students.

Attendance: Students are expected to be present, *on time*, for each lab and participate in group activities. Missing Lab will significantly influence your grade. Students are requested to not come into class late or leave early; it is disruptive and distracts the other students. **Please turn off cell phones and audible pagers during class and exams.**

THERE ARE NO MAKEUP PRACTICALS, except under extreme circumstances. Arrangements may be made with the instructor **in advance of the test date.**

Grades will be determined on a standard scale where A = 90-100%, B = 80-89%, C = 70-79%, D = 60-69%, and F = 59% and below.

Practical I	50 pts
Practical II	50 pts
Practical III	50 pts
Scientific Paper 1 (Methods, Results)	20 pts
Scientific Paper 1 (Literature Review)	20 pts
Scientific Paper 1 (Introduction)	20 pts
Scientific Paper 1 (Discussion)	20 pts
Scientific Paper 1 (in class workshop)	20 pts
Scientific Paper 1 (Complete Draft)	50 pts
Scientific Paper 2 (Complete Draft)	100 pts
Homework	150 pts
Bean Competition	25 pts
<u>Group Poster</u>	<u>100 pts</u>
Total	675 pts

Scientific Papers: You are required to produce two (2) papers this semester. We will be doing many drafts of the first paper and other writing exercises in order to introduce and train you in the Biology Writing Style. Please refer to the handouts entitled "Preparation of Lab reports for Biol 191L" for guidelines. Peer review sessions will allow editing and clarification of goals for the paper. Changes to the format in the handout will be announced in class. **Writing Assignments are due at the beginning of the lab period (See class schedule)**

Accommodations: This University abides by the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, which stipulates that no student shall be denied the benefits of an education "solely by reason of a handicap." If you have a documented disability that may impact your work in this class and for which you may require accommodations, please see the instructor as soon as possible to arrange accommodations. In order to receive accommodations, you must be registered with and provide documentation of your disability to: the Disability Resource Office, which is located in the Psychology Building, Suite 236.

Important Dates:      September 8    End of Drop period (last day to drop without grade recorded)  
    October 24    Last day for dropping course with a grade of "W". After this date, students cannot drop a class without withdrawing from the University.

Incompletes: Incompletes for this course will only be given **under extreme circumstances** and with consultation with the chair of the Biology Department

## **COURSE SCHEDULE                      FALL 2008**

<b>DATE</b>	<b>EXERCISES</b>	<b>ASSIGNMENT</b>
<b>Week of August 25</b>	Lab 1: Intro to Scientific Method/ the Microscope; Lab 2: Presenting, Analyzing, and Discussing Results	
<b>Week of September 1</b>	Lab 4: Diffusion and Osmosis; Lab 3: Plant Cell	Scientific Paper: Methods and Results Due Thursday September 4
<b>Week of September 8</b>	Lab 5: Mitosis; Lab 8: Genetics	Mitosis Homework due Thursday, September 11
<b>Week of September 15</b>	Lab 6: Photosynthesis	Genetics Problems Due Tuesday September 16 Scientific Paper: Literature Review Due Thursday September 18
<b>Week of September 22</b>	Lab 17: Tissues; Lab 18: Root	Photosynthesis Homework Due Tuesday September 23
<b>Week of September 29</b>	Lab 19: Leaves; Lab 20: Stems; Lab 21 Secondary Growth s	Root Homework Due Tuesday September 30 Scientific Paper: Introduction Due Thursday October 2
<b>Week of October 6</b>	<b>Review and Lab Practical I</b>	Study!!!
<b>Week of October 13</b>	Hormones and Tropisms	Scientific Paper: Discussion Due

		Thursday October 16
<b>Week of October 20</b>	Lab 22: Transport/Nutrition In-Class Peer Review of Paper	Hormone and Tropism Homework due Tuesday October 21 Scientific Paper :Complete Draft Due Thursday October 23
<b>Week of October 27</b>	<b>Review and Practical II</b>	Study!!!
<b>Week of November 3</b>	Lab 9: Gram Staining; Lab 10: Cyanobacteria; Experimental Design for Poster	Scientific Paper :Final Draft Due Thursday November 6
<b>Week of November 10</b>	Lab 11: Algae; Experimental Design/Set up	Gram Staining Homework Due Tuesday November 11
<b>Week of November 17</b>	Lab 13: Moss; Lab 14: Seedless Vascular Plants; Experimental Design/Set up	Moss Homework Due Thursday November 20
<b>Week of November 24</b>	Thanksgiving Break	
<b>Week of December 1</b>	Lab 15: Gymnosperms; Lab 16: Angiosperms; Experimental Design/Set up	
<b>December 6 - 10 Final Exam week</b>	Poster presentation <b>Practical III</b>	Scientific Paper 2 Due

**Course schedule subject to change**