

PBIO 450/550: BIOTECHNOLOGY & GENETIC ENGINEERING (4 credits)
Web site: <http://www.ohio.edu/plantbio/staff/showalte/PBIO%20450%20&%20550/>

Time & Place: Tuesday & Thursday 10:10-12:00; Porter 104

Instructor: Allan Showalter

Fall 2010

Text: Molecular Biotechnology©2009 by Bernard R. Glick, Jack J. Pesternak & Cheryl L. Patten

Requirements: PBIO110 or PBIO114 or BIOS 170

Course Description:

The purpose of this course is to introduce students to basic molecular biological concepts and techniques used in the fields of biotechnology and genetic engineering. Current experimentation and progress in these fields as well as ethical considerations of this research will be discussed.

Grades will be based on the following:

1. A midterm exam on the first third of the course (100 points).
2. A midterm exam on the second third of the course (100 points).
3. A comprehensive final exam (100 points).
4. A graded, in-class presentation on a biotechnology or genetic engineering topic, preferably a controversial one, to be approved by the instructor (50 points for PBIO 450 students and 25 points for PBIO 550 students). Each student will have to prepare a one-paragraph abstract of his or her presentation and a list of relevant references (including the article titles) for distribution to the class. Graduate students enrolled in the course will additionally have to submit an 8-10 page double spaced paper (25 points) on their chosen topic following the format of a review paper in *Nature Reviews Molecular Cell Biology* (<http://www.nature.com/nrm/index.html>); being sure to include complete article titles for all references.
5. Homework (50 points). Email answers to review questions for each assigned chapter. Chapter answer sets are given equal grade weighting and are due each Monday by noon for the past week's assignments.

Thus, there are 400 points possible. Typically, 93.3% and above will earn an A, 90-93.3% an A-, 86.7-90% a B+, 83.3-86.7% a B, 80-83.3% a B-, 76.7-80% a C+, 73.3-76.7% a C, 70-73.3% a C-, 66.7-70% a D+, 63.3-66.7% a D, 60-63.3% a D-, and below 60% an F.

Exams will be based upon material covered in class lectures as well as in the assigned readings.

Office Hours:

By appointment, Porter Hall-Room 504 (phone number 593-1135 or email showalte@ohio.edu)

Academic Conduct:

The penalty for course-related academic dishonesty (i.e., cheating on exams, plagiarism, etc.) will be failure of the entire course along with a report of the incident being sent to Judiciaries.

Attendance Policy:

Attendance is highly recommended. Any absences must be well justified and explained to the instructor in advance in order to make up any of the graded material.

Biotechnology And Genetic Engineering Ohio University

Siddappa N.Byrareddy



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Whispering the Techniques of Language: An Emotional Quest through **Biotechnology And Genetic Engineering Ohio University**

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