## Important Summer Session 2009 Dates

| | Session I | 7-wk Sess | 8-wk Sess | 10-wk Sess | Session II |
|---|---|---|---|---|---|
| Last day to **enroll/add** online | June 27 (Sat) (11:59 pm) | June 27 (Sat) (11:59 pm) | June 27 (Sat) (11:59 pm) | July 4 (Sat) (11:59 pm) | Aug 1 (Sat) (11:59 pm) |
| Last day to **drop** online | June 28 (Sun) (11:59 pm) | June 28 (Sun) (11:59 pm) | June 28 (Sun) (11:59 pm) | July 5 (Sun) (11:59 pm) | Aug 2 (Sun) (11:59 pm) |
| **Withdrawal Period** at Summer Office (no refund) | June 29 – July 10 (8:00-4:00) | June 29 – July 17 (8:00-4:00) | June 29 – July 24 (8:00-4:00) | July 6 – July 31 (8:00-4:00) | August 3 – August 14 (8:00-4:00) |
| Note that during Summer Session there is no auditing of classes, no "Add by Petition" and no "Administrative Drop by Instructor". Failure to attend class does not constitute a "Drop". All deadlines are final. | | | | | |

# Biology 20L: Introduction to Experimental Biology (Summer 2009)
## TuTh 1:00 – 6:00 pm; Thimann Lab 223

**Instructor:** Linda Ogren (ogren@biology.ucsc.edu); 307 Thimann (831-459-2274)

**Course Description:** Provides biology majors with the theory and practice of experimental biology. A wide range of concepts and techniques used in the modern laboratory are included in the exercises. Designed to satisfy the introductory biology lab requirement of many medical and professional schools.

**Text:** The lab manual can be downloaded from the course website. Details will be provided at the first class meeting.

**Course Requirements**

**Attendance:** Students must attend each laboratory meeting. Make-up labs will not be offered. Class will begin at 1:00 pm each day. Habitual tardiness will be penalized.

**Assignments:** Grades will be based on five lab reports written in the style of a scientific journal article (75% of final grade), and daily quizzes and homework (25% of final grade). Up to 10% of the total points in the class will be deducted at the end of the term if a student is habitually late to class or is not well prepared to do the day's work when he/she arrives. Assignments are due at the beginning of the class period. Late work will be accepted as long as it is turned in within one week of the due date, except as noted below. Late assignments will be penalized 10% of their total point value for each day they are late, including weekends. Assignments that are turned in on the due date but after they are collected in class will be subject to a late penalty of 5%. All work for the course must be submitted by the end of the last class meeting (7/23).

**Turnitin.com:** All written assignments must be submitted to turnitin.com, a website that screens papers for originality. Failure to submit papers to this site in a timely manner will result in an automatic grade of 0 for the assignment. In addition, the failure to submit work to this site will be noted in the narrative evaluation for the course.

## Tentative Schedule of Lab Exercise and Assignments

| Date | Lab Exercise | Assignment Due |
|---|---|---|
| 6/23/09 | Course introduction<br>Writing scientific papers | |
| 6/25/09 | 1: Basic skills | |
| 6/30/09 | 2: Serial dilution and resistance to antibiotics | Report for Exercise 1 |
| 7/2/09 | 3: Protein determination | |
| 7/7/09 | 4: Cloning (digestion/gel) | Report for Exercise 2 |
| 7/9/09 | 4: Cloning (ligation/transformation)<br>6: Nutrient availability | Report for Exercise 3 |
| 7/14/09 | 4: Cloning (amplification)<br>6: Nutrient availability | Homework |
| 7/16/09 | 4: Cloning (miniprep) | Report for Exercise 6 |
| 7/21/09 | 4: Cloning (digestion, final gel) | |
| 7/23/09 | 7: Histology | Report for exercise 4<br>Histology assignment (in class assignment) |