# Statistics 8, Summer Session II 2017, Intro to Bio Statistics

**Lecture**: MWF 11 a.m. - 12:50 p.m., 1306 Social Ecology II (SE2)

**Discussion**: Fridays 10-10:50 a.m., 170 Social Science Plaza A (SSPA)

**Instructor** Mary Ryan, Department of Statistics
    Email: marymr@uci.edu

**Office Hours**: Mondays 1:30-3 p.m. and Thursdays 10-11:30 a.m., 2013 Donald Bren Hall

**Website**: https://sites.google.com/uci.edu/stat8-17ss2

**Recommended Textbook**:
    Mind on Statistics by Jessica Utts, 5th ed.
    OpenIntro Statistics open source textbook

**Course goals and material to be covered**: Introduction to descriptive statistics, random samples and experimental designs, categorical & quantitative variables, probability rules (marginal probability, joint probability, conditional probability, etc.), random variables (discrete and continuous), expectation and variance, Normal distribution, sampling distribution, t-test for 1 population mean, t-test for 2 population means, matched pairs t-test, Chi-square test for independence, and statistical literacy.

**Computing**: We are using free statistical software called R. You can download these onto your own computer (PC and Mac). Instruction will be provided in class and/or in discussion sections. The programs are available in the ICS computer labs as well, but to use them there you need to set up an account with ICS. Instructions for doing so are provided at this link: http://www.ics.uci.edu/~lab/students/acct_activate.php (also linked to the course webpage). More information on using R and R Studio are on the course webpage.

**Discussion Sections**: Friday discussion will primarily be used as a question and answer session, in addition to working on supplementary examples.

## HOMEWORK, EXAMS, AND GRADING:
**Homework (30%)**: Homework will be assigned regularly during the quarter. Due dates for each homework assignment will be posted on the homework and/or class website.

You can hand in homework in class on the due date, or upload it to the electronic dropbox on EEE.

**Midterm Exam (30%)**

**Final Exam (40%)**: Wednesday, Sept. 13 during regular class time

## POLICIES
**Homework Honesty Policy**: Although you are encouraged to study with other students and to discuss homework with them, you are each expected to do your own work, including your own computing work and R code. If you are assigned a problem that has an answer in the student solutions manual or the back of the book, you are expected to write the solution in your own words, not copy it from the book. And if solutions exist on a website somewhere it is a violation of the honesty policy to copy them.

**Late Homework Policy**: Late work (few hours to 2 days) with an email notification will be docked 15%; extremely late work (more than 2 days) will be docked 50%.