Statistical Methods for Bioscience II **Spring 2017**
Statistics/F&W Ecology/Horticulture 572 – 4 credits

Instructor: Cécile Ané
phone: 262-3901
e-mail: cecile.ane@wisc.edu

Office Hours: in 1208 Medical Sciences Center, Mondays 2:30-4, Tuesdays 3-4pm, or by appointment

Text: Reference materials will be provided in class and online on learn@uw.

Course Objective: As in Statistics 571, the goal is to provide students in bioscience with a thorough grounding in modern statistical procedures. The emphasis will be on understanding underlying concepts rather than on an extensive coverage of a wide range of topics. The development of the ability to interpret results and to evaluate critically the methods used is of paramount importance. To a large extent the assignments will involve the analysis of data sets that approach the "real-world" complexity of data encountered in research. Substantial use will be made of the computer in conducting such analyses.

Assignments: Homework assignments are due each week on Friday, in your TA's mailbox, by 4:00 pm. Assignments will be returned in discussion section.

Homework Policy:

- Homework assignments should be well organized and neat. It is required that you show your work in order to receive credit.
- You may discuss homework problems with others including your peers, your TA and instructor, but you must write up your homework solutions by yourself in order to receive credit. Similarly, you must write your own computer code and obtain your computer output independently.
- Homework assignments are due on Friday, in your TA's mailbox, by 4:00 pm. Credit will not be given for homework turned in late.
- The two lowest scores will be dropped when computing an average score for your homework at the end of the semester. Please use this "Drop Two" policy wisely and contact the instructor if you have a concern that is not adequately covered by this policy.

Exams: There will be an in-class midterm, a take-home midterm, and a final exam. The exams will cover lecture materials, readings, and homework material. Exams will be open-book and open-notes. The first midterm will take place during class time on **March 9**, the take-home midterm will be distributed on April 20 after lecture, and **due Thursday April 27** at the beginning of lecture. The final exam will take place on **Thursday May 11** at 12:25 pm.

Block the time for the exams now — missed exams will not be permitted except when extenuating circumstances prevail. Vacation travel does not constitute an acceptable reason for missing an exam.

Grading: The homework will count 20%, the in-class midterm will count 20%, the take-home midterm will count 30%, and the final will count 30%.

Discussion Sections: Attendance is strongly advised. It's the best place to ask questions in a small group, to connect with other students and form study groups, to get practice of new concepts, and get help with computing questions.