

Instructor: Amy Cantrell
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Online Office Hours: Tuesday 4:30-8:30 PM, during this time, I will be available in E-learning Chat. Chat will generally break for 5-10 minutes every 30-50 minutes

In addition to the above office hours, I will monitor the discussion board on a regular basis, usually daily. Most questions in this class should be addressed in the discussion board. Asking questions in this way allows all students access to a wide variety of information. Questions of a personal nature should be sent via the mail feature of E-Learning. I will also try to be in chat anytime it is possible while I am online.

Teaching Assistant: Alex Savenkov
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Course Content: Login to E-Learning through <http://lss.at.ufl.edu> using Gatorlink info
Or use the following direct address to STA 6166 E-Learning course
<https://elearning.courses.ufl.edu/webct/logon/1264701957051>

Required Textbook: *A First Course in Statistical Methods*, 2004, Ott and Longnecker,
Duxbury-Thomson-Brooks/Cole, Belmont, CA [ISBN 0-534-40806-0]

Optional: "Student Solutions Manual" containing solutions to selected exercises
[ISBN: 0-534-40807-9]

Course Objectives:

This is a *distance education* introductory statistics course for graduate students in the College of Agriculture and Life Sciences who plan to use statistical techniques in their research and who currently cannot attend an on-campus version of this class. **Students having no background in statistics are strongly encouraged to take (or audit) a basic statistics course (such as STA 2023) prior to taking this course.** Students should have previous exposure to basic descriptive statistics and graphs, confidence intervals, hypothesis tests, and possibly simple linear regression. This course will extend those topics and add new statistical tests and software experience to the student's statistical knowledge.

Primary objectives:

- Provide a foundation in basic statistical concepts.
- Introduce statistical inference based on the t, F and Chi Square tests.
- Introduce simple linear and multiple regression analysis.
- Introduce statistical aspects of experimental design and the associated analysis of variance and covariance.

Secondary objectives:

- Provide practice in using a statistical computing package to perform the basic analyses covered
- Introduce a few "nonparametric" alternatives to the standard "parametric" methods covered
- Discuss research data management to facilitate data analysis

This course is very similar to STA 6126 (Statistical Methods in Social Research I). The main difference is that 6166 concentrates on statistical techniques for quantitative data and 6126 concentrates on categorical data.