

STA 4322 / 5328: INTRODUCTION TO STATISTICS THEORY

Summer 2018

Instructor: Grant Backlund	Time: M-F 9:30 – 10:45
Email: grantback21@ufl.edu	Room: FLI 0105

Office Hours:

Wednesday: 11:00am–12:15pm

Thursday: 11:00am–1:45pm

Office: 117D Griffin-Floyd Hall

Teaching Assistant:

The teaching assistant will be Wei Xia (103B Griffin-Floyd Hall, jjtwwdei@ufl.edu). Wei will hold regular office hours each week 11:00am–2:00pm on Monday and 11:00am–2:00pm on Tuesday.

Course Web Page:

I will post announcements, homework assignments, and solutions on the Canvas page for the course.

Optional Textbook:

7th edition of *Mathematical Statistics with Applications* by Wackerly, Mendenhall, and Scheaffer.

Note that the textbook is **not** required.

Objectives:

This course is designed to provide a firm foundation in the basic theory of statistical inference. It covers the classical theory of estimation and hypothesis testing, as well as the theory of linear models and least squares. The probability theory developed in STA 4321 (or STA 5325) is used in developing the theory of estimation and hypothesis testing in the course.

Prerequisites:

The prerequisites for this course are STA 4321 (Introduction to Probability) and MAC 2311, 2312, 2313 (Calculus I, II, III). If you have not taken all of these (or their equivalents) and earned at least the required minimum grade in each one, you may not register for this course.

Tentative Course Outline:

The topics covered will be those from Chapters 7-11 of the textbook.

Class Attendance and Make-up Exams:

Requirements for class attendance, make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Students with Disabilities:

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Exams:

There will be three exams given **in class**. The exams are tentatively scheduled for 9:30–10:45am on July 13, July 27, and August 10.

Homework:

Mastery of the material presented in this course requires a great deal of practice. Each week there will be one homework assignment consisting of ten problems. Homework assignments will be due each week on either Thursday or Friday **in class**. Because solutions will be posted on Canvas the **same** day that they are to be handed in, **late assignments will not be accepted**. Students may drop their lowest homework score at the end of the semester.

Grading:

Exam 1: 25%

Exam 2: 25%

Exam 3: 25%

Homework: 25%

The usual 10 point scale (90% for an **A**, 80% for a **B**, . . .) is tentatively adopted, but will most likely be loosened. Information on current University of Florida grading policies for assigning grade points is given at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Online Course Evaluation Process:

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last week of the semester, but students will be given specific times when they are open. Summary results of these evaluations are available to students at <https://evaluations.ufl.edu/results/>.