

## Statistics 2023 Honors Fall 2010

**Instructor** Professor Hani Doss—222 Griffin-Floyd; Office Hours: MWF 5th period (11:45–12:35) or by appointment. Phone: 273-2991.

**Teaching Assistant** Subhadip Pal—427 McCarty C (subhadippal@stat.ufl.edu); Office Hour: Thursday 6th period (12:50–1:40).

**Course Description and Objectives** STA 2023 Honors is an introductory statistics course which does not assume knowledge of calculus, but that nevertheless presents basic statistical concepts and methods at an advanced level. The primary goals of the course are to enable the students to develop a firm understanding of the fundamental ideas behind statistical reasoning and to learn some of the basic techniques of data analysis. An advanced statistical computing language will be used for the computations and graphics.

**Grading** Your final course grade will be based on the five components below, with their respective weights:

Midterm 1:	Monday October 4, 6:30 pm, room TBA; covers everything up to and including lecture of Friday October 1. Note evening time slot.	20%
Midterm 2:	Monday November 8, 6:30 pm, room TBA; covers everything up to and including lecture of Friday November 5 (with emphasis on material covered after Midterm 1). Note evening time slot.	20%
Final:	Comprehensive; on December 11, 7:30–9:30 am.	30%
Homework:	There will be about 10 homeworks assigned during the semester.	15%
Projects:	There will be two projects assigned during the semester.	15%

The times, dates, and places of the two midterms are tentative, and will be confirmed later.

The final will count slightly more if this is to your advantage. A course average of 93–100 will guarantee an A, 90–92 at least an A<sup>–</sup>, 87–89 at least a B<sup>+</sup>, 83–86 at least a B, 80–82 at least a B<sup>–</sup>, etc. (The actual cutoffs for the grades are likely to be much lower than these numbers.)

**Textbooks and Materials** There is one required text and one recommended text.

- 1 *Introduction to the Practice of Statistics*, by David S. Moore, George P. McCabe, and Bruce Craig, 6th edition, Freeman, 2009, including a disk with all data sets for the book. This is required.
- 2 *Using R for Introductory Statistics*, by John Verzani, CRC Press, 2005. This is recommended.

**Course Web Page** <http://www.stat.ufl.edu/~doss/Courses/2023h>

**Required Software** We will be using the statistical computing language R (which can be downloaded for free from <http://www.r-project.org>).

**Coverage** Roughly, we will cover the material in Chapters 1–7 of the text (however, the level of this course is much higher than that of the book, so there is no real correspondence between what we cover and these chapters). *Note that there will be material covered in lectures which is not found anywhere at all in the textbook, and you will be responsible for that material.*

**Course Policies** Homework must be turned in at the beginning of the lecture on the due date. Late homework will not be accepted.

All exams are closed-book, closed-notes; however, you may bring one  $8.5 \times 11$  sheet of notes to the Midterm Examinations and two  $8.5 \times 11$  sheets of notes to the Final Examination (you can write on both sides of the sheet). You should bring a calculator to the tests. Makeup exams must be approved before the time of the exam and will be given only in case of medical or family emergencies (which must be appropriately documented). All work must be entirely your own.

*You are responsible for everything from lecture.* Do not depend on the course web page for announcements regarding due dates for homework, changes in schedules, etc.

Cell phones should be turned off (or set on silent).

If you feel you need special arrangements because of a disability please see me.