

## Statistics 2023 Honors Spring 2020

**Instructor** Hani Doss—222 Griffin-Floyd; Office Hours: MWF 4th period (if you come to see me, please do so before 11:10 am); email: [doss@stat.ufl.edu](mailto:doss@stat.ufl.edu) (email is primarily for administrative purposes, not for questions regarding the course material; for such questions, you should see me in person).

**Teaching Assistant** Tingting Wang—234 Griffin-Floyd; Office Hour: Tuesday, 2:00–2:50pm; email: [wangt1@ufl.edu](mailto:wangt1@ufl.edu).

**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 stated weights:

Exam 1:	Wednesday February 12, 8:20 pm, room TBA; covers everything up to and including lecture of Monday February 10. Note evening time slot.	20%
Exam 2:	Friday March 20, 8:20 pm, room TBA; covers everything up to and including lecture of Wednesday March 18 (but with emphasis on material covered after Exam 1). Note evening time slot.	20%
Final:	Comprehensive; on Saturday April 25, 12:30–2:30pm.	30%
HW:	There will be about 10 homeworks assigned during the semester.	15%
Projects:	There will be two projects assigned during the semester.	15%

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.)

**Text** *Introduction to the Practice of Statistics*, by David S. Moore, George P. McCabe, and Bruce Craig, 9th edition, Freeman, 2017. Note: getting the 8th, 7th, or even the 6th edition is perfectly fine, and is cheaper.

**Software** We will use the free statistical computing language R. You should download it from <https://www.r-project.org> and install it before Friday January 10. You may wish to also download Rstudio from <https://www.rstudio.com> (go to <https://www.rstudio.com/products/rstudio/download> to get the free Open Source License).

**Coverage** Very 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 Web Page** <http://www.stat.ufl.edu/~doss/Courses/sta2023h>

A password is needed to enter the Homeworks page; the password will be given out in class.

**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 two  $8.5 \times 11$  (one-sided) sheets of notes to the exams. 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, or conflicts with other exams (any of which must be appropriately documented).

*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.

I am going to use the projector, and distribute hard copies of the slides (electronic versions of the slides will *not* be available). The hard copies will be distributed once. I am not going to bring slides from the previous lecture for the benefit of those who didn't come to class. The notes that are passed out will be a skeleton of the lectures (in other words, they are going to be incomplete) with the missing material developed during the lecture. Therefore, skipping class and getting a copy of the notes is not going to work.

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

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