

STA 2023: Introduction to Statistics I

Instructor:

Robert Parker

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Office: Griffin-Floyd 117D

Office Hours: MF 3:30-4pm (or by appointment)

Course Page: elearning.ufl.edu (Canvas)

Course Objectives:

STA 2023 is an introductory course that assumes no prior knowledge of statistics but does assume some knowledge of high school algebra. Basic statistical concepts and methods presented in a manner that emphasize understanding the principles of data collection and analysis rather than theory. Much of the course will be devoted to discussions of how statistics is commonly used in the real world. There are two major parts to this course.

I Data: which includes graphical and numerical summaries to describe distributions of a variable, or the relationship between two variables (chapters 1,2, and 3) and data production to learn how to design good surveys and experiments, collect data from samples that are representative of the whole population, and avoid common sources of biases (chapter 4).

II Probability and Inference: using the language of probability and the properties of numerical summaries computed from a random sample (chapter 5,6 and 7), we learn to draw conclusions about the population of interest, based on our random sample, and attach a measure of reliability to them (chapters 8,9,10).

Required Materials

1. *Lab Workbook for Statistics: The Art and Science of Learning from Data-3rd edition*
2. *Statistics: The Art and Science of Learning from Data* by Alan Agresti and Christine Franklin 3rd edition, Pearson, 2013
3. **Scientific Calculator** that has some basic statistical functions: mean and standard deviation. Many inexpensive calculators (around \$10 to \$15) have these functions; check the manual or look for the following symbols \bar{X} or s or σ_{x^2} . All of the more expensive graphing calculators have them as well, but it is not necessary to buy one of them for this class.
4. A computer with Internet access (Either on campus or at home)

Tutoring Room

Help will be available from the TA's in the tutoring room in Griffin-Floyd 104. These TA's are there solely for STA 2023. This is a large course with lots of students so it may not be possible to answer all questions in class or during office hours. The TA's are a great resource to answer homework, quiz, or any other questions that may arise about course material. The tutoring room will be open every day for most of the morning and afternoon.

Course Assessment

Assessment	Percent of Grade
Exam 1	25%
Exam 2	25%
Exam 3	25%
Quizzes(5)	25%

- There will be 5 quizzes online through e-learning (elearning.ufl.edu) in Canvas and will tentatively be assigned each Friday to cover that weeks material. There will be no make-up quizzes for any reason. The quiz with the lowest score will be dropped at the end of the semester.

Quiz	Material Covered	Due Date
Quiz 1	Chapters 1-3	Friday May 20
Quiz 2	Chapter 4-6	Friday May 27
Quiz 3	Chapters 7-8.2	Friday June 3
Quiz 4	Chapters 8.3-9.2	Friday June 10
Quiz 5	Chapters 9.3-10	Friday June 17

- There will be three in class tests each worth 25% of your grade. The following schedule of exams is tentative.

Exam	Material Covered	Date
Exam 1	Chapter 1-6	Friday May 27
Exam 2	Chapter 7-9.2	Friday June 10
Exam 3	Chapter 9.3-10	Friday June 17

If for any reason you have to miss class on these days you must inform the instructor a week prior to the exam to schedule a makeup with a valid excuse. In case of illness the instructor must be notified on the day prior to the exam and be given a valid doctor's excuse. I have zero tolerance for any form of cheating and a grade of zero will be the minimum punishment.

- Homework will be assigned but not graded. It is for your benefit that you work these problems. A solutions manual for the homework is available in Griffin-Floyd 104 and on reserve in the Marston Science Library. It is generally observed that students who do the homework perform well in the class.

Grading Scale

A	90-100
A-	88-89.99
B+	84-87.99
B	80-83.99
B-	78-79.99
C+	74-77.99
C	64-73.99
D	60-63.99
E	below 60

Getting Help

Students should be able to get their statistical questions answered in the following ways:

- before, after or in class by your instructor
- in the tutoring lab in Griffin-Floyd 104
- during office hours from the instructor
- in the tutoring lab in the basement of Broward Hall. A schedule of their hours can be found by calling 392-2010 or by accessing www.teachingcenter.ufl.edu
- as a last resort by hiring a private tutor. A list of private tutors from the statistics department can be obtained from the secretary in Griffin-Floyd 102

Hurricane Policies

Summer A semester overlaps with hurricane season.

- **If a hurricane approaches the coast of Florida, but classes are not canceled at the University of Florida.** The course will continue as scheduled. You are required to keep up with the lectures, quizzes and labs. If you believe that your situation requires special consideration, please send an email to the instructor immediately.

- **If a hurricane approaches the coast of Florida, and classes at the University of Florida are canceled**, the lectures, labs and quizzes will be suspended until the university re-opens. The University will announce this closure on the University of Florida homepage. Any announcements about the course will be posted at the course website.

Course Policies

- **Privacy Policies:** Student records are confidential. Only information designated "UF directory information" may be released without your written consent. UF views each student as the primary contact for all communication. If your parents contact me about your grade, attendance or other information that is not "UF directory information", I will ask them to contact you.
- **Email:** Email relating to information about the class should be sent to the instructor at rlpl76@stat.ufl.edu. Your message will be answered within one working day (unless sent on a weekend) in most cases. However, we ask you to please refer to this syllabus and the course website to try to find the answers yourself. Questions regarding the material covered in class and homework problems should be asked before, after, during class, or in the tutoring room. Statistics questions are very difficult to answer over email. Questions about quizzes should be sent to your instructor and it should include the quiz number, attempt number and question number.
- **Instructor's Honor Code:** We the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.
- **Academic Honesty:** We adhere to the University of Florida rules and guidelines for handling instances of academic dishonesty. Please refer to the Office for Student Services for detailed information about the current policies.
- **Students with Disabilities:** Students who require special accommodations in class or during exams should follow the procedures outlined by the Disability Resources Program (<http://www.dso.ufl.edu/drc>). **Please send your letter of accommodation as soon as you receive the information to the instructor. I must be emailed the form 7 days before the exam for accommodation to be arranged.**
- **Grading:** Grading will be changed only when an error has been made; negotiation is not appropriate.
- **Incomplete:** Incompletes are only assigned when extraordinary circumstances (such as an accident, or extended hospitalization), arising after the date for dropping the course, preventing the student from completing the course requirements. Having a failing grade in the course is not a valid reason for requesting an Incomplete.

This syllabus is subject to change. If there is a change you will be notified.