

## Syllabus

**Instructor** Syed Rahman

Email: shr264@ufl.edu

Class Room: CAR 100

Class Time: MTWRF Period 5 (2:00-3:15pm)

Office Hours: MWF Period 6

Office: Griffin Floyd 218

**Tutoring Lab** Griffin Floyd 104

Tutoring Room Hours: MTWRF Periods 2, 3, 4 and TR Periods 6

**Course Description** 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 are presented in a manner that emphasizes 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:

1. Data - which includes graphical and numerical summaries to describe the distribution of a variable, or the relationship between two variables, 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. (Chap 1-4)
2. Probability and Inference - using the language of probability and the properties of numerical summaries computed from a random samples, we learn to draw conclusions about the population of interest, based on our random sample, and attach a measure of reliability to them. Topics covered include point estimates, p-values, confidence intervals, hypothesis testing. (Chap 5-10)

**Course Objective** The primary goal of the course is to help students understand how the process of posing a question, collecting data relevant to that question, analyzing data, and interpreting data can help them find answers to real problems from their world.

### Required Supplies

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 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:  $\bar{x}$  and either  $s$  or  $\sigma_{n-1}$ . All of the more expensive graphing calculator have them as well, but it is not necessary to buy one of them for this class.

<b>Grading Scale:</b>	Grade	Percent of Points
	A	90-100%
	A-	87.5-89.99%
	B+	84.5-87.49%
	B	80.0-84.49%
	B-	77.5-79.9%
	C+	74.5-77.49%
	C	64.5-74.49%
	D	60-64.5%
	E	59.99% or below

<b>Assessment:</b>	Assessment Type	Percentage of Total
	Exam 1	30%
	Exam 2	30%
	Quizzes(4)	40%

**Quizzes** The quizzes will be online through E-Learning (formerly Webct). On the website (and in class), it will be announced when each quiz will be available, and for how long. Hopefully, they will serve the purpose of improving your grade, as well as be an important tool in learning the material for the course.

**Exams** Exams 1 and 2 will be multiple-choice and will tentatively be given on the dates and will tentatively cover the chapters listed below. It is your responsibility to bring calculator, pencil and a photo ID. In case of conflict or illness, if a student is unable to take an exam at the scheduled time, they must get in touch with the lecturer a week prior to the exam for any arrangements to be made for a makeup. Each case will be reviewed individually. Valid and detailed documentation is a prerequisite under such extenuating circumstances. In case of illness, the instructor must be notified on the day before the exam by 5pm and must receive a medical excuse. A grade of zero is the minimum punishment of any type of dishonesty on an exam. You can only use functions on the graphing calculator that are native to the calculator. Typing in notes into the calculator is considered cheating and a grade of zero on the exam is the minimum penalty for such an occurrence.

<b>Exam dates:</b>	Exam	Date	Chapters
	1	Jul 17	1-6
	2	Aug 9	7-10

**Homework** A list of suggested homework problems are listed on webct. Homework will not be collected. It is my belief that doing the homework problems and asking any questions you may have about them is essential for performing well in this course. You cannot learn statistics if you do not practice statistics. If you do not understand a homework problem or have any questions about the material, please visit the tutoring lab. Answers to the odd-numbered problems are available in the back of the text. A textbook and an Instructors Guide with Solutions to all homework problems is available on Reserve at the Marston Science Library and in the Tutoring Room.

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

1. before, after or in class, from your instructor
2. in the tutoring lab in Griffin Floyd Room 104
3. during office hours from the instructor

4. for many classes, not just statistics, at the tutoring lab in the Basement of Broward Hall a schedule of their hours can be obtained by calling 392-2010 or by accessing [www.teachingcenter.ufl.edu](http://www.teachingcenter.ufl.edu)
5. as a last resort, by getting (and paying) a private tutor. A list of private tutors from the Statistics Department can be obtained from the secretary in Griffin-Floyd 102.

**Hurricane Policies** The summer semester overlaps with the hurricane season.

1. 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 and quizzes. If you believe that your situation requires special consideration, please send an email or call the instructor immediately.
2. If a hurricane approaches the coast of Florida, and classes at the University of Florida are canceled, the lectures and quizzes will be suspended until the university re-opens. The University will announce this closure on the University of Florida homepage.

**Course Policies** Email: Email would be answered within two working days or sooner. I do not answer email in the middle of the night nor on the weekends. However, please refer to the class syllabus and the class website to try and find the answers for yourself. Questions regarding the material covered in class, and homework problems should be asked in person. Statistical questions often require formulas or pictures, which can make it very hard to communicate by email.

**Attendance** Exams will be based on the assigned homework problems and the examples that are done in the class. If you miss class for any reason it is your responsibility to get any notes and information you might have missed from another student. Additionally, you should turn your cellular phones off and refrain from eating, drinking, reading newspapers, doing homework for other classes, and excessive talking. Laptops should not be brought to class.

**Instructors 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. We adhere to the University of Florida rules and guidelines for handling instances of academic dishonesty. Please refer to the Office for Students Services for detailed information about the current policies.

**Grading** Grading will be changed only when an error has been made; negotiation is not appropriate. There is no appeal process.

**Incomplete** Incompletes are only assigned when extraordinary circumstances, arising after the date for dropping the course, prevent the student from completing the course requirements. Having a failing grade in the course is not a valid reason for requesting an Incomplete.

**Accommodations for students with disabilities** Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the students who must then provide this documentation to the Instructor when requesting accommodation.

**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.