



STA 2023 Introduction to Statistics I

Summer A 2022 Syllabus

Instructor	Arek Kesiz Abnoui , 	Office Hours MTWR 9:30-10am [Zoom]
Email	arek.kesizabnoui@ufl.edu	Office Griffin floyd Room 209.

Lectures: MTWRF at e-Learning-Canvas . Lectures will be posted daily on the course website to watch at your convenience.

Quizzes: MTWRF at e-Learning-Canvas

Course Website: elearning.ufl.edu/

Teaching Assistants

Office hours (Daily): M-12:00-6:00pm , TWRF-12:00-3:00pm [ZOOM-Web Link]

Dipshi Roychowdhury: droychowdhury@ufl.edu **Eleni Dilma:** edilma@ufl.edu

Swarnali Raha: swarnali.raha@ufl.edu.

Required Materials:

- **Lecture Notes:**

Available at the course homepage in Canvas .These are needed to follow along with the lectures and to fill in the blanks while following the lectures. You can use them electronically if you can take notes on a pdf file, or print them.

- **Computer** with internet access (either at home or on campus). To watch the lectures and to take the exams, quizzes.

- **Recommended Textbook:**

Text: *Statistics: The Art and Science of Learning from Data*, 4th Edition

Author(s): Alan Agresti and Christine Franklin; **ISBN-13:** 978-0133860825

- **Scientific Calculator** that has some basic statistical functions: mean and standard deviation. graphing calculator is not allowed to use during the exams and quizzes.

Course Material by Week

- **Week 1**

Textbook Sections: 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5 3.1, 3.2, 3.3

Description: Exploring Data with Graphs; Measures of Center, Spread and Position; Regression.

- **Week 2**

Textbook Sections: 3.4, 4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3

Description:Regression; Data from Surveys/Experiments; Probability.

- **Week 3**

Textbook Sections: 5.4, 6.1, 6.2, 6.3, 7.1, 7.2

Description:Probability in our Daily Lives; Probability Distributions; Sampling Distributions.

- **Week 4**

Textbook Sections: 8.1, 8.2, 8.3

Description:Confidence Intervals for the Population Proportion; Confidence Intervals for the Population Mean.

- **Week 5**

Textbook Sections: 9.1, 9.2, 9.3, 9.4, 10.1

Description:Significance Tests

- **Week 6**

Textbook Sections: 10.1, 10.2, 10.4

Description:Comparison of Two Proportions and Two Means.

Course Assessment:

Exam 1: Chapters 1-7 (27 May)	30%
Exam 2: Chapters 8-10 (16 June)	30%
Quizzes (Daily)	30%
Mini Projects (20 May,10 June)	10%

Letter Grade Distribution:

91%-100%	A	68.5% - 75.49 %	C
89.5% - 90.99%	A-	60% - 68.49 %	D
85.5% - 89.49 %	B+	Below 60%	E
81% - 85.49 %	B		
78.5% - 80.99 %	B-		
75.5% - 78.49 %	C+		

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 to emphasize understanding the principles of data collection and analysis rather than theory. Much of the course will be devoted to discussing how statistics are commonly used in the real world. There are two major parts to this course:

I Data- which includes graphical and numerical summaries to describe the distribution 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 samples (chapters 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).

Prerequisite(s): None.

Assessment:

- **Exams**

This semester all exams will be conducted online and proctored electronically by the vendor determined by the university. Two multiple choice exams will be held online during class time via Honorlock, instructions for you can find on Canvas in Files. If you are experiencing issues like getting a webcam for your Honorlock exam there is aid-a-gator that may be able to help. Their website is <https://www.sfa.ufl.edu/aidagator/>. Exam 1 will tentatively cover Chapters 1-7 and Exam 2 will tentatively cover Chapters 8-10. It is your responsibility to bring a scientific calculator, pencil, and Gator 1 ID (Photo ID) to each exam. If a student is unable to take an exam at the scheduled time, they must notify the instructor, Arek Kesiz Abnoui, 48 hours 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/family emergency/disability related absence, the instructor must be notified by 11:59 pm the day of the exam and must receive valid and detailed documentation. The makeup exam may not be in a multiple choice format. A grade of zero is the minimum punishment of any type of dishonesty on an exam. There are no retakes on exams for any reasons. If you are feeling poorly, you need to contact the instructor before taking the exam and provide a doctor's note. The exams are closed book, closed notes, you are only allowed scratch paper and a scientific calculator

- **Quizzes**

- Daily – MTWRF (e-Learning-Canvas) due date.
- You will have two attempts.
- It is recommended to take the Quiz after watching and studying the corresponding lecture of the day.
- It is recommended to attend at a TA's office if you have many errors on your first attempt.
- There will be a short, 5-point quiz associated with each lecture. Each quiz contains 3-5 questions. These quizzes will be completed in Canvas, and students will have two chances for each quiz, with the highest score counting towards their grade. There will be 23 quizzes in total, and only the highest 20 quizzes will be counted in the final grade. There will not be any make-up quizzes. Quizzes will close at 11:59 pm EST, one business day after their related lecture is taught. See the calendar in Canvas for deadlines. For technical problems, contact the UF Computing Help Desk <http://helpdesk.ufl.edu/>

- **Mini Project**

There will be two mini-projects during this semester which will be completed online in Canvas. Mini projects will require students to read some information, answer questions related to a computer output, complete a short statistical analysis and upload the results to Canvas. You will have 5 to 6 days to complete each mini project.

- **Suggested Homework (not graded)**

Homework will be assigned but not graded. A list of recommended homework problems is posted on the e-Learning course page: <http://elearning.ufl.edu/>. It is for your benefit that you work these problems. It is generally observed that students who do the homework perform well in the class.

Getting Help

1. Zoom office hours of your instructor.
2. Zoom office hours of your three TAs.
3. For many classes, not just statistics, at the tutoring lab in the Basement of Broward Hall; a schedule of their hours is at <http://www.teachingcenter.ufl.edu/> .
4. 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 Administrative Specialist of the Statistics department Christine Miron .
5. Cross Validated Cross Validated is a question and answer site for people interested in statistics, machine learning, data analysis, data mining, and data visualization.

School Closures

If classes at the University of Florida are canceled, the course 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 e-Learning webpage.

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”, they will be directed to contact you. More information can be found at <https://catalog.ufl.edu/ugrad/current/regulations/info/student-ferpa-rights.aspx>
- **E-mail** E-mail relating to information about the class should be sent to the instructor at arek.kesizabnous@ufl.edu or through the course management system. Your message will be answered within one working day, in most cases. However, we ask you to please refer to this syllabus and the course website to try to find the answers for yourself. Questions regarding the material covered should be asked during class, at the instructor’s office hours, or in the tutoring room. It is often difficult to answer questions regarding material through e-mail.
- **Students with Disabilities** Students who require special accommodations in class or during exams should follow the procedures outlined by the Disability Resources Program at <http://www.dso.ufl.edu/drc/>. Please send your letter of accommodations to the instructor as soon as you receive the information. The instructor must be emailed the form 5 business days before the exam date for accommodations to be arranged.
- **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** UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: ‘On my honor, I have neither given nor received unauthorized aid in doing this assignment.’” The Honor Code (<http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor
- **Grading** Grades will be changed only when an error has been made; negotiation is not appropriate. Grades will be posted on the e-Learning course page at <http://elearning.ufl.edu/>. The current UF grading policies for assigning grade points is available at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>
- **Incomplete** Incomplete grades are only assigned when extraordinary circumstances (such as an accident, or extended hospitalization), 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.
- **Course Evaluation**
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 few weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

University Services

- U Matter, We Care: Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.
- Sexual Assault Recovery Services(SARS): Student Health Center, 392-1161

The syllabus is subject to change. You will be notified if there is a change.