



STA 2023 LD - Introduction to Statistics

Spring 2025

Instructor	Yeison Quiceno	Office hours	T 10:45-12:45 PM Zoom
E-mail	yeison.quicenodu@ufl.edu	Office	Griffin Floyd Room 117A
Phone	(352) 392-1941		

Course Website: elearning.ufl.edu/

Course Time: FLO 100, 12:50 PM- 1:40 PM

Teaching Assistants

Name	E-mail	Office hours	Office	Phone
Xavier Mak	xaviermak@ufl.edu	W 10:45-12:45 PM	FLO 209	(352) 392-1941

Communication and Technical Support

Preferred Methods of Communication

For questions or concerns related to this course, the preferred methods of communication are as follows:

- **Email:** You may contact the instructor at yeison.quicenodu@ufl.edu or through the course management system (Canvas). Please allow up to one business day for a response.
- **Office Hours:** You are encouraged to attend the instructor’s or TA’s office hours for in-person or Zoom discussions. Office hours are listed on the first page of this syllabus.
- **Technical Issues:** If you encounter technical issues with Canvas or other course-related tools, please contact the UF Computing Help Desk at helpdesk@ufl.edu or call 352-392-4357. You can also visit the [UF Computing Help Desk website](#) for additional support.

Please refer to this syllabus and the course website before contacting the instructor for general course information, as many questions can be answered by reviewing these resources.

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.

- **Recommended Textbook:**

Title: *Statistics: The Art and Science of Learning from Data*, 5th Edition

Author(s): Alan Agresti and Christine Franklin

ISBN-13: 978-0133860825

- **Scientific Calculator:**

It should have basic statistical functions (mean, and standard deviation). Graphing calculator is not allowed to use during the exams.

- **Materials/Supplies Fees:**

A fee of \$1.74 is charged during registration for lab materials.

Course Assessment:

4 In-Class Exams	40% (10% per exam)
Labs - In Class Data Analysis Assignments	35%
Canvas Quizzes	15%
Class Attendance and Participation	10%

Exam 1	Monday Feb 3	Ch 1-3	Modules 1- 8	Graphs, Numerical Summaries, Regression, Contingency Tables
Exam 2	Monday March 3	Ch 3-6	Modules 9- 16	Gathering Data, Probability, Normal and Binomial Distributions
Exam 3	Thursday April 3	Ch 7-9	Modules 17- 26	Sampling Distributions, Confidence Intervals, Sig Test for Proportions
Exam 4	Monday April 28	Ch 9-10	Modules 27- 36	Confidence Intervals and Sig Tests for one and two groups

Letter Grade Distribution:

90% – 100%	A	66% – 73.99%	C
88% – 88.99%	A–	60% – 65.99%	D
84% – 87.99%	B+	Below 60%	E
79% – 83.99%	B		
77% – 78.99%	B–		
74% – 76.99%	C+		

For more information on the University of Florida’s grading policies, including the calculation of grade points, please refer to the [UF Grading Policies](#).

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 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.

Weeks	Topics Covered
1-2	Exploring Data with Graphs; Measures of Center, Spread, and Position.
2-4	Exploring Relationships Between Two Variables; Simple Linear Regression; Exam 1.
4-6	Experimental and Survey Design; Probability Rules.
7-8	Binomial and Normal Distributions; Exam 2.
9-10	Sampling Distributions of the Sample Proportion and Sample Mean.
10-11	Confidence Interval for the Population Proportion and Population Mean.
12-13	Exam 3; Significance Test for the Population Proportion; Significance Test for the Population Mean.
13-15	Comparing Two Ind. Proportions and Two Ind. Means; Compare Means from Dependent Samples; Exam 4.

General Education Objective and Student Learning Outcome

This course satisfies general education credits in the mathematical sciences. A minimum grade of C is required for general education credit. Students learn how to summarize data and how to make appropriate decisions based on data. (This course is in the general education category of M.)

General Education Objective (Mathematics)

Courses in mathematics provide instruction in computational strategies in fundamental mathematics including at least one of the following: solving equations and inequalities, logic, statistics, algebra, trigonometry, inductive and deductive reasoning. These courses include reasoning in abstract mathematical systems, formulating mathematical models and arguments, using mathematical models to solve problems and applying mathematical concepts effectively to real-world situations.

In this course, this objective will be met by:

- Introduction to the three main aspects of statistics: design (of experiments/surveys), description (of data collected) and inference (the extension of conclusions from the data gathered in the sample to the larger population).
- Presentation of these concepts through lectures three times a week and lab once a week.
- Learning about the normal and binomial distributions, confidence intervals, and significance tests.
- Ability to critique real-world surveys and experiments, interpret graphs, and conduct basic statistical inference for one or two groups.

General Education Student Learning Outcomes (SLOs)

Content: Students demonstrate competence in the terminology, concepts, methodologies, and theories used within the discipline.

Communication: Students communicate knowledge, ideas, and reasoning clearly and effectively in written or oral forms appropriate to the discipline.

Critical Thinking: Students analyze information carefully and logically from multiple perspectives, using discipline-specific methods and develop reasoned solutions to problems.

In this course, these SLOs will be met by:

- **Content:** Students will learn critical terminology, concepts, methods, and theories during the lecture. These concepts will include terminology to describe one and two samples, discuss surveys/experiments, basic probability theory, sampling distributions, and one and two-group inference. The students will be assessed on these terms and concepts during the weekly quizzes and exams. Students will also demonstrate their competence in identifying the appropriate formulas to use for each situation and using those formulas correctly.

- **Communication:** The students will use verbal and written communication to discuss central statistical concepts in their weekly labs. These concepts include a description of data sets, sampling methods and interpretations of inference methodology.
- **Critical Thinking:** The students will be asked to critically think about the trustworthiness of surveys and experiments presented in the media. Additionally, students will learn how to conduct significance tests, a statistical method to logically determine if there is enough evidence for a hypothesis. Students will learn how to state the null and alternative hypotheses (different perspectives) and then to use the data collected to determine if there is enough evidence to support the alternative hypothesis using methods central to the field of statistics. The students will be tested on these concepts in labs, quizzes, and on two of the exams.

Assessment:

- **Exams**

There will be total of four exams, all done in class. You will need to bring your own scientific calculator (you cannot share one with another student) and a pencil. If you are unable to take an exam at the scheduled time, it is your responsibility to get in touch with me one 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, you must notify me on the day of the exam by 5pm and must receive a medical excuse. Cell phones must be switched off and in your backpacks and must not be in view during the exam.

- **Labs- Data Analysis Assignments**

There will be around ten Data Analysis Assignments throughout the semester. They will be completed during class and we have reserved a Computer Lab to use on those days. The dates will be announced in class and in Canvas. Students must arrive within 5 minutes of the start of the Lab in order to participate. The instructor will bring lab worksheets for all the students to complete the activity during class.

- **Canvas Quizzes**

The Canvas Quiz function will be used to assign problems after each class so students can practice the concepts and formulas learned that day. These quizzes will be completed electronically but function more like a homework assignment. Students will have three chances at each quiz and the highest score will count for their grade.

- **Class Attendance, Absences, and Make-up Policies**

Attendance: Regular attendance is expected, and students will receive points for attendance, punctuality, attentiveness, and participation. Students should come to every class, be on time, pay attention, take notes, work in groups when instructed, and ask and answer questions related to the material.

Absences and Make-up Work: Students are expected to attend all classes and complete all course assignments within the assigned time frame. Students who miss an exam, lab, quiz, or homework assignment due to illness or other conflicts must contact the instructor before or immediately after the absence and provide valid documentation. Make-up work must be completed as soon as possible and cannot be made up after the exam for that material has been given.

Consistency with University Policies: The requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies. For more information regarding the University Attendance Policies, please refer to the [UF Academic Regulations and Policies](#).

- **Getting help**

1. Zoom or in person office hours of your instructor.

2. Zoom or in person office hours of your 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** 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 yeison.quicenodu@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 a 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.
- **Class Demeanor and Expectations** To maintain a productive and respectful learning environment, the following expectations apply to all students in this course:
 - **Punctuality:** Students are expected to arrive on time for class. Late arrivals may disrupt the learning environment.
 - **Attentiveness:** Students should remain attentive during lectures and discussions. Avoid distractions such as using cell phones, browsing the internet, or engaging in unrelated conversations.
 - **Participation:** Active participation is encouraged. Students should ask questions, contribute to discussions, and engage in group activities when instructed.
 - **Respect:** Students are expected to treat the instructor, teaching assistants, and fellow classmates with respect at all times. Disruptive or disrespectful behavior will not be tolerated.
 - **Technology Use:** Cell phones must be silenced and stored away during class unless explicitly permitted by the instructor for educational purposes. Laptops and tablets may be used for note-taking or course-related activities only.

Failure to adhere to these expectations may result in a reduction of participation points or other disciplinary actions, as outlined in the [UF Student Conduct Code](#).

- **In-Class Recording Policy** Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are:
 - For personal educational use.
 - In connection with a complaint to the university.
 - As evidence in, or in preparation for, a criminal or civil proceeding.

All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A **class lecture** is defined as an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation. It does not include:

- Lab sessions.
- Student presentations.
- Clinical presentations such as patient history.
- Academic exercises involving solely student participation.
- Assessments (quizzes, tests, exams).
- Field trips.
- Private conversations between students or between a student and the instructor during a class session.

Publication of recordings without permission is prohibited. To **publish** means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person or persons. This includes posting recordings on social media, third-party note/tutoring services, or any other platform.

A student who publishes a recording without written consent may be subject to a civil cause of action and/or discipline under the [UF Student Conduct Code](#).

- **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.

Campus Resources

- **Health and Wellness**

- **U Matter, We Care:** If you or someone you know is in distress, please contact umatter@ufl.edu, call 352-392-1575, or visit the [U Matter, We Care website](#) to refer or report a concern. A team member will reach out to the student in distress.
- **Counseling and Wellness Center:** For crisis services and non-crisis support, visit the [Counseling and Wellness Center website](#) or call 352-392-1575.
- **Student Health Care Center:** For 24/7 information and care, call 352-392-1161 or visit the [Student Health Care Center website](#).
- **University Police Department:** For emergencies, call 911. For non-emergencies, visit the [UF Police Department website](#) or call 352-392-1111.
- **UF Health Shands Emergency Room / Trauma Center:** For immediate medical care, call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608. Visit the [UF Health Emergency Room and Trauma Center website](#).
- **GatorWell Health Promotion Services:** For prevention services focused on optimal well-being, including Wellness Coaching for Academic Success, visit the [GatorWell website](#) or call 352-273-4450.

- **Academic Resources**

- **E-Learning Technical Support:** For technical issues with Canvas or other e-learning tools, contact the UF Computing Help Desk at helpdesk@ufl.edu or call 352-392-4357. Visit the [UF Computing Help Desk website](#) for additional support.
- **Career Connections Center:** For career assistance and counseling, visit the Career Connections Center in Reitz Union Suite 1300 or call 352-392-1601. Visit the [Career Connections Center website](#).
- **Library Support:** For assistance with library resources, call 866-281-6309 or email ask@ufl.libanswers.com. Visit the [UF Libraries website](#).
- **Teaching Center:** For general study skills and tutoring, visit the Teaching Center in 1317 Turlington Hall or call 352-392-2010. To make an appointment, call 352-392-6420. Visit the [Teaching Center website](#).

- **Writing Studio:** For help with brainstorming, formatting, and writing papers, visit the Writing Studio in 2215 Turlington Hall (daytime: 9:30am-3:30pm) or Library West, Room 339 (evening: 5:00pm-7:00pm). Call 352-846-1138 for daytime appointments. Visit the [Writing Studio website](#).
- **Academic Complaints:** For academic complaints, visit the [Office of the Ombuds website](#) or use the [Complaint Portal](#).
- **Enrollment Management Complaints:** For complaints related to Registrar, Financial Aid, or Admissions, visit the [Student Complaint Procedure webpage](#).

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