

Instructor: Maria Ripol

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office hours: MWF 2:00– 3:30 pm

Lectures: MWF 3rd pd LEI 104 Sec 7739
MWF 5th pd LEI 104 Sec 1774

Course Description and Objective:

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. This course satisfies General Education Credits in the Mathematical Sciences. There are two major parts to this course:

- **Data** (graphical and numerical summaries of data, and the principles of good data production)
- **Inference** (drawing conclusions about the whole population of interest, based on data collected for a sample). 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 the data, and interpreting the results can help them find answers to real problems from their world.

Required Materials:

1. **Lab Workbook:** *Lab Workbook for Statistics: The Art and Science of Learning from Data* by Megan Mocko and Maria Ripol, **3rd edition**, Pearson. Lab Workbook **MUST** be purchased **NEW**, and is available alone or bundled with the textbook. This workbook includes copies of the lecture notes and worksheets we will use for the class projects.
2. **Textbook:** *Statistics: The Art and Science of Learning from Data* by Alan Agresti and Christine Franklin, 3rd edition, Pearson, 2012. Can be shared, borrowed, or purchased new, used or as an e-book. Options:
 - Textbook alone (new/used) ISBN: 9780321755940
 - Ebook ISBN: 000200010271299244 http://www.pearsoncustom.com/fl/ufl_stat
 - Bundled Text and Lab Workbook
 - Unbound Chapters 1 – 10 only (notebook version): ISBN:1256652741 Note – this is Non-returnable and only for those not taking STATS 2
3. **Scientific Calculator:** You will need a calculator with some basic statistical functions: mean and standard deviation. Many inexpensive calculators (around \$15) have these functions; check the manual or look for the following symbols: \bar{x} and either s or σ_{n-1} . Graphing calculators are **NOT** allowed in this class.

Course Website: <https://lss.at.ufl.edu/>

This is the portal for UF's e-learning website. You must log on using your gatorlink username and password, and access the course webpages from there. Important information about the course, including this syllabus, announcements, your grades throughout the semester, and the online quizzes will be posted there.

Projects: There will be several short activities and projects to be completed during the semester; some will be done in class, others outside of class. The point values of the projects will vary with their length and difficulty, but they will be worth a total of 60 points altogether. Details about projects and their due dates will be given in class.

Online Quizzes: There will be four online quizzes, administered through e-learning. You have three tries for each quiz (with questions randomly generated) over a period of several days. The highest of the three attempts is automatically recorded. Each quiz will be worth 10 points, for a total of 40 points.

Suggested Homework Problems: will be listed on the course website. They will help you master the material but will not be collected.

Exams: There will be three exams given during the semester, each worth 100 points. Students are required to bring a calculator, pencils and a photo ID as well as any other needed materials to the exams. 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 instructor immediately, 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. A grade of zero is the minimum punishment of any type of dishonesty on an exam.

Exam Dates: (all exams will be done in class)

Friday September 28

Friday November 2

Wednesday December 5

Course Assessment:

Exam 1	Exam 2	Exam 3	Projects	Quizzes	Total
100	100	100	60	40	400

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
Percentage	90-100	87-89	84-86	80-83	77-79	74-76	70-73	67-69	64-66	60-63	57-59	0-56
Grade Points	4.0	3.67	3.33	3.0	2.67	2.33	2.0	1.67	1.33	1.0	0.67	0

Course Policies:

Email – will be answered within one working day in most cases. Please be aware that statistical questions should be answered in person (in class or during office) since they often require pictures and formulas that make it very hard to communicate through email.

Attendance to this course is required. If you miss a class for illness or emergency, it is your responsibility to get a copy of the notes and all information given in class from another student. **The non-Honors sections of this course have videotaped lectures that are offered online** – if that's the option that you would prefer, you must switch sections through the Registrar's office.

Classroom Behavior - Students should turn off their cellular phones and other personal electronic devices – their use is not permitted during class. In addition, students should refrain from eating, drinking, reading newspapers, doing homework, listening to music, excessive talking, and all other behaviors that are distracting and disrespectful to the instructor and their fellow students.

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 Dishonesty - 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.

Grading – grades will be changed only when an error has been made. Negotiation is not appropriate. There is no appeals process.

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.

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/drp/>). Please see the instructor during office hours early in the semester, to discuss your accommodation letter confidentially.