

STA 2023: Introduction to Statistics

Instructor:

Chan Wong (Ryan) Wong
105 Griffin Floyd Hall

Email:

cwwong@stat.ufl.edu

Tutoring lab:

104 Griffin Floyd Hall

Class Time:

MTWRF 2nd period
(9:30 to 10:45 a.m.)

**E-Learning (formerly
known as webct):**
<http://lss.at.ufl.edu/>

Tutoring Room Hours:

MT(12:30 p.m. to 6:15 p.m.)
W(12:30 p.m. to 3:15 p.m.)
R(11:00 a.m. to 4:45 p.m.)
F(12:30 p.m. to 3:15 p.m.)

Office Hours:

MWF
(11:00 a.m. to 12:15 p.m.)
or by appointment

Course Objective: graphical and numerical descriptive measures; probability laws and conditional probability; discrete random variables including binomial and normal random variables; sampling distributions and the central limit theorem; large and small sample confidence intervals for parameters associated with a single population and for comparison between two populations; hypothesis testing for large and small samples.

THIS COURSE SATISFIES GENERAL EDUCATION CREDITS IN THE MATHEMATICAL SCIENCES. STUDENTS LEARN HOW TO SUMMARIZE DATA AND HOW TO MAKE APPROPRIATE DECISIONS BASED ON DATA.

Course Website with Current Announcements:

<http://www.stat.ufl.edu/~cwwong/sta2023su12a.html>

Required Supplies:

- **Lab Workbook for Statistics: The Art and Science of Learning from Data**, by Maria Ripol and Megan Mocko, 2nd ed., Pearson, 2009.
- **Statistics: The Art and Science of Learning from Data**, by Alan Agresti and Christine Franklin, 2nd ed., Pearson, 2009.
- **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 σ_{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.

Suggested:

- Minitab computer program: We will be using Minitab output in class. You may want to use the program to help you work out homework problems. Minitab can be found on the CIRCA lab computers, purchased online for \$99.99 new at www.e-academy.com/minitab, downloaded for free for 30 days at www.e-academy.com/minitab

academy.com/minitab, or rent a copy of the software for 6 months for \$29.99 at www.e-academy.com/minitab.

My expectations of you:

- Arrive on time.
- Laptops and smart phones should **NOT** be used in class
- No eating, drinking, web browsing, facebooking, twittering and any other non statistics-related activities during class
- Review your notes after each class
- Ask questions if you do not understand something
- Make it your goal to understand everything that we do
- **Inform the instructor of a problem in a timely manner**

Assessment: There will be a total of **2 exams, 4 quizzes** and **1 extra-credit assignment**.

Extra-Credit assignment: This assignment will be worth **5** points and must be due by **3 p.m., Friday, May 18th**. You can either submit it in person or put it in the instructor's mailbox located in 103 Griffin Floyd Hall. Here is the description of this assignment:

Copy your student ID or other photograph of yourself. Please make sure the picture is clear. Write on that sheet your full name, the name you would like to be called, and in a few sentences what statistics mean to you (in whatever sense and be CREATIVE!).

Quizzes: The quizzes will be given at the end of the class at the following dates and will be worth **20** points each. You will be given approximately 15-20 minutes to finish the quiz. The quizzes are served as the purpose to help you keeping pace with the materials and also served as a check of attendance. Hence, **a grade of zero** will be given to those students who miss any quizzes and there will be **NO** make-up for the quizzes. However, if you are desperate to miss or you do not perform well in any one of the quizzes, you can submit **a project** to replace the quiz with the lowest score.

Quiz	Material Covered	Date
1	Everything before Fri., May 18 th	Fri., May 18 th
2	Everything before Fri., May 25 th	Fri., May 25 th
3	Everything before Fri., June 8 th	Fri., June 8 th
4	Everything before Fri., June 15 th	Fri., June 15 th

Project: The project will be worth **20** points and must be due by **3 p.m., Wed., June 20th**. The project is to replace the quiz with the lowest grade. You can either submit it in person or put it in the instructor's mailbox located in 103 Griffin Floyd Hall. In the project, you need to finish **four** of the following activities at the back of the Lab Workbook. Each activity will be worth **5** points and you need to answer everything asked in the activity (including data collection since no data will be provided). The project will be graded seriously based on the correctness of your answers.

Activity	Page	Activitiy	Page
4	p.129	12	p.149
6	p.133	14	p.153
8	p.141	16	p.157
10	p.145	18	p.161
11	p.147	19	p.163

Exams: The exams will be given on the dates listed below and worth **100** points each. It is your responsibility to bring a **calculator**, **pencils** 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, Chan Wong (Ryan) Wong, 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 previous day of the exam by **5pm** and must receive a medical excuse. If you ask for re-grading any of the questions in an exam, the instructor reserve to right to re-grade the whole exam rather than those particular questions pointed out by you. **I have zero tolerance towards any type of dishonesty on an exam and a grade of zero is the minimum punishment.** For example, 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.

	Material Covered	Dates	Possible Points
Exam 1	Handbook: Pgs 1 – 50 Textbook: Ch. 1 – Ch. 6 Sec. 3	Fri., June 1 st , in class (9:30 a.m. to 10:45 a.m.)	100
Exam 2	Handbook: Pages 51 – 121 Textbook: Ch. 7 Sec. 1 – Ch. 10 Sec. 4	Fri., June 22 nd , in class (9:30 a.m. to 10:45 a.m.)	100
Quizzes			80
Total			280

Homework: A list of suggested homework problems will be listed on E-learning and the course website. 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 Instructor's Guide with Solutions to all homework problems are available on Reserve at the Marston Science Library and in the Tutoring Room.

Grading Scale: The grading scale will be the following.

LETTER GRADE	POINTS	PERCENT OF POINTS
A	4.00	90.0-100%
A-	3.67	88.5 – 89.99%

B+	3.33	84.5 – 88.49%
B	3.00	80.0 – 84.49%
B-	2.67	78.5 – 79.99%
C+	2.33	74.5 – 78.49%
C	2.00	64.5 – 74.49%
D	1.00	60.0 – 64.5%
E	0.00	59.99 or below

The grading scale is fixed and will **NOT** be changed under any circumstances. There will be **NO** rounding-up and the percent of points is the lowest to guarantee a particular grade. However, if the overall class performance in any quizzes or exams warrants a curve I will give one, but **A CURVE WILL NOT BE GUARANTEED**. All in all, it is highly unlikely curving will happen based on my experience and you should **NOT** hope for curving for any quizzes or exams. It is the policy of the department of statistics not to give grades of D+.

Example:

Here is the break down of Student R's performance.

	Score		Score		Submitted?	Score
Quiz 1	20	Exam 1	83	Extra-Credit Assignment	YES	5
Quiz 2	15	Exam 2	86			
Quiz 3	20			Project	YES	19
Quiz 4	18					

Then the score of the project will replace the score of quiz 2 and the total number of points Student R acquires throughout the semester will be $(20+19+20+18+83+86+5=251)$, which is $(251/280=89.64\%)$ in terms of percentage. Hence, Student R gets a final grade of **A-**.

Getting Help:

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

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

- **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.

- **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. Any announcements about the course will be posted at the course website: www.stat.ufl.edu/~cwwong/sta2023_summer12a.html

Course Policies

Email: Email would be answered within one working day 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.

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. 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.