

UNIVERSITY OF RHODE ISLAND

STA 308 – Introductory Statistics

Summer 2024

Instructor: Jing Wu
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Class Days/Times: **Online Lectures Asynchronous** on Brightspace,
<https://brightspace.uri.edu>
Class assignments will be due on the given due dates. See timetable for details.

Office Hours: Tuesday & Thursday 5:00PM-6:00PM via Zoom
When needed an additional online meeting could be arranged.

Zoom room: <https://uri-edu.zoom.us/j/2863221580>

Course Material: Weekly Readings, Videos, and Instructions will be posted on Brightspace. It is highly recommended that you review the material before attempting Quizzes and Assignments. You can review the materials at your own pace by due dates.

Textbook: Introductory Statistics, **Tenth Edition** (9th?), Neil A. Weiss, Addison-Wesley, 2016

Teaching Assistant: TBD
Office Hours:
TA Zoom Room:

COURSE DESCRIPTION:

This is an introductory statistics class that begins with exploring and understanding data including how to summarize data with graphs, statistics, and verbal descriptions. The class then progresses to probability distributions, statistical inferences and regression analysis.

PREREQUISITES:

MTH 103 or 107 or 110 or 111 or 131 or 141 or 180 or BUS 111 or permission of instructor.

COURSE LEARNING OBJECTIVES:

By the end of this course, the developer will be able to

- Develop analytical ability to think critically about statistical studies
- Identify and apply the correct methodology to real data analysis problems
- Recognize and identify common usage and limitations of basic statistical and probability concepts
- Perform parameter estimation and quantify the uncertainty of the estimates
- Form research questions and conduct data analysis using statistical software (e.g., Excel), evaluate the proposed models and interpret the results

BRIGHTSPACE HELP:

Here is the link to access Brightspace <https://brightspace.uri.edu> as well as the Brightspace resource page <https://web.uri.edu/brightspace/>.

CLASSROOM PROTOCOL:

For this online course, Brightspace is our “classroom.” Please refer to the [Brightspace YouTube video tutorials](#) before you get started and refer back to them as a resource as needed while you complete this course.

In the online learning environment, “attendance” is measured by your PRESENCE in the site as well as your CONTRIBUTIONS to the site. The importance of regular log-ins and active participation cannot be overstated.

ASSIGNMENTS AND GRADING POLICY:

EVALUATION METHODS:

Participation in Forum	5%
Quizzes	10%
Assignments	15%
Exam 1	20%
Exam 2	20%
Final Exam	30%

DESCRIPTION OF ASSIGNMENTS:

A. Participation in Forum 5%

Student participation in the class is an important part of this course. Sharing questions and ideas pertaining to the course & the course project is important way to evaluate your level of understanding of the subject and your ability and confidence to successfully complete the exams and course project using the appropriate statistical methods.

B. Online Quizzes and Assignments 10%+15%

There will be 5 quizzes and 5 assignments in the semester.

Each quiz (**three attempts and the highest attempt will be counted**)/assignment (**one attempt**) has the same weight and will be graded on a scale of 0-10. If a student is late in handing in a quiz/assignment, there will be a late quiz/assignment penalty of 50% unless it has been previously agreed /approved by the instructor. Late quiz/assignment won't be accepted after a week of the due date. See attached timetable for due dates and information as to date for final exam. **NO EXTRA CREDIT IS AVAILABLE IN THIS CLASS.**

C. Exams 20%+20%+30%

Exams are **online synchronous**.

If a student knows beforehand that she/he will not be able to take an exam the day it is officially scheduled for, it is the responsibility of the student to make arrangements to take the exam **prior** to the day the exam is given to the class.

No make-up exams without legitimate reason! If the student is unable to take an exam for any reason beyond her/his control, the reason/proof should be discussed/provided with/to the instructor.

Please back up your work on a flash drive, email to yourself, and/or store in a cloud. It is a good idea to have a back-up plan in case of computer problems, e.g., a friend's computer, a work computer, a library computer, etc.

SOFTWARE:

Excel or R software will be used in this class. Excel functions that work in both platforms (Windows and Macs) will be used throughout the semester. Instructions as to how to use Excel to perform basic statistical analysis will be given by TA.

FINAL GRADING SCALE:

A	93%	-	100%
A-	90%	-	92%
B+	87%	-	89%
B	83%	-	86%
B-	80%	-	82%
C+	77%	-	79%
C	73%	-	76%
C-	70%	-	72%
D+	67%	-	69%
D	60%	-	66%
F	0%	-	59%

Note: Final grade will be rounded to the nearest integer.

PROFESSIONAL CONDUCT:

Cheating and plagiarism are serious academic offenses, which are dealt with firmly by the College and University. Scholastic integrity presumes that students are honest in all academic work. **Cheating** is the failure to give credit for work not done independently (i.e., submitting a paper written by someone other than yourself), unauthorized communication during an examination, or the claiming of credit for work not done (i.e., falsifying information). **Plagiarism** is the failure to give credit for another person's written or oral statement, thereby falsely presuming that such work is originally and solely your own.

If you have any doubt about what constitutes plagiarism, visit the following website:

<https://honorcouncil.georgetown.edu/whatisplagiarism>, the URI Student Handbook, and University Manual sections on plagiarism and cheating at <http://web.uri.edu/studentconduct/student-handbook/>.

Students are expected to be honest in all academic work. A student's name on any written work, quiz or exam shall be regarded as assurance that the work is the result of the student's own independent thought and study. Work should be stated in the student's own words, properly attributed to its source. Students have an obligation to know how to quote, paraphrase, summarize, cite and reference the work of others with integrity. The following are examples of academic dishonesty.

- Using material, directly or paraphrasing, from published sources (print or electronic) without appropriate citation;
- Claiming disproportionate credit for work not done independently;
- Unauthorized possession or access to exams;
- Unauthorized communication during exams;
- Unauthorized use of another's work or preparing work for another student;
- Taking an exam for another student;
- Altering or attempting to alter grades;
- The use of notes or electronic devices to gain an unauthorized advantage during exams;
- Fabricating or falsifying facts, data or references;
- Facilitating or aiding another's academic dishonesty; ● Submitting the same paper for more than one course without prior approval from the Instructor.

Please note the following section from the University Manual:

8.27.17. Instructors shall have the explicit duty to take action in known cases of cheating or plagiarism. The instructor shall have the right to fail a student on the assignment on which the instructor has determined that a student has cheated or plagiarized. The circumstances of this failure shall be reported to the student's academic dean, the instructor's dean, and the Office of Student Life. The student may appeal the matter to the instructor's dean, and the decision by the dean shall be expeditious and final.

Such action will be initiated by the instructor if it is determined that any written assignment is copied or falsified or inappropriately referenced.

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Any good writer's handbook as well as reputable online resources will offer help on matters of plagiarism and instruct you on how to acknowledge source material. If you need more help understanding when to cite something or how to indicate your references, PLEASE ASK.

Please note: Students are responsible for being familiar with and adhering to the published “**Community Standards of Behavior: University Policies and Regulations**” which can be accessed in the **University Student Handbook**.

INCOMPLETE GRADE:

The University Policy regarding incomplete grades follows:

“A student shall receive a report of **Incomplete** in any course in which the course work has been passing up until the time of a documented precipitating incident or condition but has not been completed because of illness or another reason which in the opinion of the instructor justifies the report. (Section 8.53.20 University Manual).”

I would not consider granting an Incomplete grade unless the University policy is fulfilled.

ACADEMIC SUPPORT SERVICES:

Office of Disability Services

Americans With Disabilities Act Statement

Any personal learning accommodations that may be needed by a student covered by the “Americans with Disabilities Act” must be made known to the university as soon as possible. This is the student's responsibility. Information about services, academic modifications and documentation requirements can be obtained from the Office of Affirmative Action, Equal Opportunity and Diversity (AAEOD).

<https://web.uri.edu/affirmativeaction/>

Any student with a documented disability is welcome to contact me early in the semester so that we may work out reasonable accommodations to support your success in this course. Students should also contact Disability Services for Students, Office of Student Life, 330 Memorial Union, 401-874-2098.

From the University Manual: 6.40.10 and 6.40.11 Accommodations for Qualified Students With Disabilities. Students are expected to notify faculty at the onset of the semester if any special considerations are required in the classroom. If any special considerations are required for examinations, it is expected the student will notify the faculty a week before the examination with the appropriate paperwork.

Anti-Bias Syllabus Statement: We respect the rights and dignity of each individual and group. We reject prejudice and intolerance, and we work to understand differences. We believe that equity and inclusion are critical components for campus community members to thrive. If you are a target or a witness of a bias incident, you are encouraged to submit a report to the URI Bias Response Team at www.uri.edu/brt. There you will also find people and resources to help.

Disability, Access, and Inclusion Services for Students Statement: Your access in this course is important. Please send me your Disability, Access, and Inclusion (DAI) accommodation letter early in the semester so that we have adequate time to discuss and arrange your approved academic accommodations. If you have not yet established services through DAI, please contact them to engage in a confidential conversation about the process for requesting reasonable accommodations in the classroom. DAI can be reached by calling: 401-874-2098, visiting: web.uri.edu/disability, or emailing: dai@etal.uri.edu. We are available to meet with students enrolled in Kingston as well as Providence courses.

Academic Enhance Center (online tutoring) <https://web.uri.edu/aec/tutoring/summer/>

Uri Online Library Resources

<https://web.uri.edu/library/>

COURSE OUTLINE AND READING ASSIGNMENTS

TOPIC	READING
1. Introduction	Chapter 1
2. Descriptive Statistics	Chapters 2 & 3
3. Probability	Chapter 4
4. The Normal Distribution	Chapter 6
5. Statistical Inference (Decision Making)	
5.1 Sampling Distribution of mean	Chapter 7
5.2 Estimation and tests for one population mean	Chapters 8 & 9
5.3 Inference for two population means	Chapter 10
6. Correlation and Regression	Chapters 14&15

Note:

- 1. Exam 1:** Chapter 1 through Chapter 4
- 2. Exam 2:** Chapter 6 through Chapter 9
- 3. Final Exam:** Chapters 10, 14, and 15.

Summer 2024 Tentative Timetable

Office Hours: TuTh 5:00PM–6:00PM

Week Starting	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
June 24			Chapter 1		Chapter 2 Quiz #1 Forum#1		Chapter 3 Assignment #1
July 1			Chapter 4	Exam #1	Chapter 6 Quiz #2 Forum#2		Chapter 7 Assignment #2
July 8			Chapter 8		Chapter 9 p1 Quiz #3 Forum#3		Chapter 9 p2 Assignment #3
July 15		Exam #2			Chapter 10 p1 Quiz #4 Forum#4		Chapter 10 p2 Assignment #4
July 22			Regression Quiz #5 Forum#5		Assignment #5	Final Exam	