

Course Syllabus

SYLLABUS

Rutgers University

Department of Statistics and Biostatistics

STATISTICS I

Stats 211 (01.960.211:01)

Spring 2022

INSTRUCTOR: John G. Klinecicz

Email: jgk87@stat.rutgers.edu



LECTURES: Tuesdays: 10:20 am – 11:40 am.

Fridays: 10:20 am – 11:40 am

When In-Person Lectures are allowed: Van Dyck Hall Room 211,

College Avenue Campus

Otherwise: Lectures will be on Zoom, accessed through Canvas.

OFFICE HOURS: On Zoom: Mondays, 4:00 pm – 5:00 pm (or by appointment)

Office Hours can be accessed through Canvas.

REQUIRED TEXT: *Introductory Statistics (10th Edition)*

By Neil A. Weiss,

Prentice Hall 2016

COURSE

CONTENT: The course provides an introduction to probability and statistics. Topics include: descriptive statistics, sample spaces, discrete and continuous random variables, sampling distributions, central limit theorem, confidence intervals, hypothesis testing and regression. We will cover most of Chapters 1 – 12 and Chapter 14 in the textbook, with the exception of some of the optional sections. Only material covered in class will be on the exams.

GOALS: Students will learn the fundamental concepts of probability and statistics. They will be able to recognize and understand various common discrete and continuous probability distributions and their properties, and to use these to compute or estimate probabilities of events. They will understand various statistical concepts, such as sampling distributions, confidence intervals, hypothesis testing and regression analysis and be able to use these concepts to make statistical inferences. They will be prepared to use their knowledge of probability and statistics to solve applied problems.

EVALUATION: Homework 10%



1st Midterm 25%

2nd Midterm 30%

Final Exam 35%

HOMEWORK: There will be 6 homework assignments. Discussion among students regarding the homework is not forbidden, but all students are expected to write up their answers on their own. In general, no late homework will be accepted.

Completed homework should be uploaded using the “Assignments” tab in Canvas. This upload should ordinarily be a .pdf file (i.e., scan your written homework, or, if you take a picture of your homework, use an app to convert it to .pdf).

Homework #6 will not be collected or graded, but the material covered in Homework #6 will be on the Final Exam.


Word Documents with the text of the Homework Assignments will also be in the “Homeworks and Solutions” module of Canvas. Solutions will be posted in the “Homeworks and Solutions” module of Canvas on the day after the homework is due. No credit will be given for homework submitted after the solutions are posted.

EXAM: Exams are scheduled for in-person class times. Following the exams, solutions will be uploaded into the “Exams and Solutions” module of Canvas.

GETTING HELP: Many people have questions that do not get answered in class. Therefore, it is *very important* that you make the effort to get help immediately whenever you find yourself struggling. Should my office hours not be convenient, you are *strongly encouraged* to make an appointment with me or with the Teaching Assistant for another time. Please do not wait until it is too late.

TEACHING ASSISTANTS: TBD

TENTATIVE DATES:

Tuesday, February 1	Homework #1 due at 10:20 am
Tuesday, February 15	Homework #2 due at 10:20 am
Friday, February 16	Midterm Exam #1
 day, March 8	Homework #3 due at 10:20 am
Tuesday, March 15	No Class, Spring Break
Friday, March 18	No Class, Spring Break
Tuesday, March 29	Homework #4 due at 10:20 am
Friday, April 1	Midterm Exam #2
Friday, April 22	Homework #5 due at 1 pm
Friday, April 29	HW #6 due (Not graded)
Friday, April 29	Last regularly-scheduled class
TBD	Final Exam

MASK MANDATES: In order to protect the health and well-being of all members of the University community, masks must be worn by all persons on campus when in the presence of others (within six feet) and in buildings in non-private enclosed settings (e.g., common workspaces, workstations, meeting rooms, classrooms, etc.). Masks must be worn during class meetings; any student not wearing a mask will be asked to leave. Masks should conform to CDC guidelines and should completely cover the nose and mouth: <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/about-facecoverings.html>

Each day before you arrive on campus or leave your residence hall, you must complete the brief survey on the My Campus Pass symptom checker self-screening app.

