

STAT 257-01 Statistical Inference, Spring 2023

Instructor: Nonhle Channon Mdziniso (Dr. Channon)

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Office Hours:

Online (Zoom) – Tuesday/Thursday 2:00pm – 3:00pm

- Join Zoom Meeting via <https://rit.zoom.us/j/93288658241>
- Meeting ID: 932 8865 8241

In-Person (Office) – Tuesday/Thursday 11:00am – 12pm

Class: Tuesday/Thursday 9:30am – 10:45am GOS-1365

Course Description

Learn how data furthers understanding of science and engineering. This course covers basic statistical concepts, sampling theory, hypothesis testing, confidence intervals, point estimation, and simple linear regression. A statistical software package will be used for data analysis and statistical applications.

Course Prerequisites

MATH-251

NOTE: Students cannot get credit for both STAT-257 and STAT-205. Students cannot get credit for both MATH-252 and STAT-257.

Class Expectations

You are expected to come to class on time, every time. Success in the course is highly correlated with lecture attendance. If you miss a class, note that you are responsible for reviewing all the work you missed during your absence even if you have a valid university excused absence. While in the classroom, it is expected that you will refrain from texting and other online activities.

Textbook

Probability and Statistics for Engineering and the Sciences, 9th Edition, Jay L. Devore.

Technology

You have the option to use a graphing calculator (e.g., TI 84 plus with STAT and DISTR functions) and/or laptop in this course to perform statistical computations. I suggest having them accessible for classes.

Software

We (I) will be using JMP Pro in this class (pronounced jump). You can download JMP Pro to your computer from the [ITS website](#) - this is free for RIT students. You are welcome to use other

software (R, Minitab, Matlab, Python, etc.), but I will be demonstrating class examples using JMP. You will need to use some sort of statistical software (package) for this course.

Grading Policy

Homework: 25%

Participation: 15%

Midterm: 30%

Final Exam: 30%

A>90%, B>80%, C>70%, D>60%, F<60%

The +/- system may be used for those students whose averages are truly borderline at the end of the semester.

Participation

Each week there will be at least one in-class activity. Completion of these activities are counted as participation. You must be present during class to receive credit. The lowest participation grade will be dropped.

Homework

Problem sets are generally assigned weekly. Assignments are due at 10pm on Mondays, they will be completed through MyCourses. Late assignments will NOT be accepted without permission in ADVANCE. The lowest homework grade will be dropped.

Exams

There will be a midterm and a final exam. Both exams will be administered during class. They are open book, open notes, open software, you can use almost any resource other than another human being. You cannot work with anyone else; you cannot use Chegg or any other online resource to perform the work for you.

Student Academic Integrity:

I expect that you will conduct yourself with honesty and integrity. All members of the academic community must be confident that each person's work has been responsibly and honorably acquired, developed, and presented. Any effort to gain an advantage not given to all students is dishonest whether or not the effort is successful. The academic community regards academic dishonesty as an extremely serious matter, with serious consequences that range from probation to expulsion. If it is determined that a student has cheated, he or she will be given zero points on the assignment in question and be turned in to the Provost for disciplinary action. See RIT's Academic Integrity policy for more information;

<https://www.rit.edu/academicaffairs/policiesmanual/d080>.

Resources: See the University Advising office for more information on available student resources: <https://www.rit.edu/academicaffairs/advising/student-resources>

Counseling and Psychological Services

Many students at RIT face personal challenges or have psychological needs that may interfere with their academic progress, social development, or emotional wellbeing. The university offers a variety of confidential services to help you through difficult times, including individual and group counseling, crisis intervention, consultations, online chats, and mental health screenings. These services are provided by staff who welcome all students and embrace a philosophy respectful of clients' cultural and religious backgrounds, and sensitive to differences in race, ability, gender identity and sexual orientation.

Located on the second floor of the August Center building (above the Student Health Center), Counseling and Psychological Services provides confidential and personalized services to meet the mental health needs of currently enrolled, undergraduate and graduate students on the Henrietta campus. Our mission is to enhance the RIT student potential for learning and success and to promote the emotional health and well-being of the campus community through:

1. Providing responsive, empirically-based, and culturally competent mental health services that include:
 - Short-term individual psychotherapy
 - Group counseling and psychotherapy
 - Urgent Care crisis intervention
 - Assessment and evaluation
 - Psychiatric services
2. Providing graduate clinical training in counseling, psychotherapy and college mental health
3. Providing campus-wide consultation and education

Campus Location: 2100 August Center, second floor (Currently, all appointments are conducted via phone or Zoom)

Phone: During Business Hours: 585-475-2261

After Business Hours, Weekends/Holidays: 855-436-1245

Fax: 585-475-6548 Email: caps@rit.edu

NOTE: DO NOT USE E-MAIL IN AN EMERGENCY SITUATION, since you cannot be assured that a counselor will open it at your time of need.

Emergency Contacts:

For urgent matters during business hours, contact Counseling and Psychological Services at 585-475-2261.

For urgent matters that cannot wait for business hours, call 1-855-436-1245 to speak with a mental health provider or call Public Safety at 585-475-3333.

National Suicide Hotline: 1 800 273-8255

Crisis Text Line: Text HOME to 741741