

STT 351-201: Probability & Statistics for Engineers
Summer B-2020

Day and Time : MWF 10:20-12:10
Course Offering : Online and asynchronous; Video Lectures in <https://d2l.msu.edu>
Instructor : Vellaisamy Palaniappan
Office : Virtual
Phone Number : 91-9869032576
E-mail : vellaisa@stt.msu.edu; pvellaisamy@gmail.com. Mention Subject: STT351.
Website : www.stt.msu.edu/Academics/ClassPages (Click on STT-351, Section 201.)

Virtual Office hours : MWF :1:00 to 2:00 pm (Lansing Time) or by appointment.

Platform: Zoom; Meeting ID: 8024470580; password: 9xuYh7.

Text: *Probability and Statistics for Engineering and the Sciences*, Jay L. Devore, 8th edition, Cengage learning (US Edition).

Course Description: Statistics is a discipline that supports the research and development; its methods help scientists and engineers answer questions in the face of variability and uncertainty. In STT 351, the students are exposed to basic probabilistic models and statistical methods that are used in engineering disciplines, applied research and industry. Continuous themes are the importance of quality data, the careful use of terms, and the clear presentation of statistical information and analysis.

Coverage: The text book will be followed fairly closely. Selected parts of Chapters 1-9 and Chapter 12.

Prerequisite: (MTH 234)

Study: You are expected to view and read all the video lectures that will be posted in D2L well in advance. You are responsible for all the materials, assignments and the deadlines missed. While office hours provide an opportunity for further clarification of materials covered in lectures, it will not be a substitute for video lectures. A lecture may consist of two videos (if it is lengthy) of about 30 to 40 minute duration under the name say L1V1, L1V2 and etc. Contact the instructor if you have any difficulty related to the course material.

Exams: There will be two quizzes (50 minutes), two tests (one hour each) and a final exam. All exams will be held during a lecture hour only. The final is a 2-hour exam and will be a **comprehensive** one.

Quiz-1 (50 points) : on the day of Lecture 5; Syllabus: L1-L4.

Test 1 (100 pts) : on the day of Lecture 9; Syllabus: L5-L8.

Quiz-2 (50 points) : on the day of Lecture 12; Syllabus: L9-L12.

Test 2 (100 pts) : on the day of Lecture 17; Syllabus: L13-L17.

Final Exam (200 pts) : Last Lecture day: That is, on 8/12/20.

Changes, if any, will be intimated in advance. If the question paper is of the subjective type, print it (or use plain sheets with your name and PID) scan it (or take photo using cell) and submit it as one pdf file.

Note: Formula sheets will be provided or posted in the class page. No make-ups are given without a verifiable medical excuse.

Homework assignments: Homework exercises from the text book will be mentioned at the end of each lecture. They will not be collected and graded, but we recommend you to work out the problems. The problems for the quizzes and the tests will be of similar type.

Grading : The course grade will be based on the total number of points accumulated in two tests (200 pts), two quizzes (100 pts.), and the final exam (200 pts.). TOTAL: 500 pts.

A Tentative Grading scale:

Points earned	Grade	Points earned	Grade
450-500	4.0	350-374	2.0
425-449	3.5	325-349	1.5
400-424	3.0	250-324	1.0
375-399	2.5	0-249	0.0

Important dates:

June 29 : First day of classes

July 01 : Open adds end (8:00 pm)

July 03 : Holiday

July 10 : Last day to drop with refund (8:00 pm)

July 22 : Middle of the semester

July 22 : Last day to drop with no grade reported (8:00 pm)

August 13 : Thursday, last day of the classes.

Tips: This course is demanding and requires a great deal of work. Students are responsible for all material covered in the lectures. Students are expected to go through each lecture carefully and also read text, work out examples and problems, using a calculator if needed. Read the textbook as assigned. Study the examples solved in the lectures and also in the textbook. Then do the homework problems. Try to study every day at least one part of the lecture. Do not fall behind and finish up reading all the lectures posted in a week.

Policies: Academic Honesty: The Department of Statistics and Probability adheres to the policies of academic honesty as specifies in the General Student Regulations 1.0, Protection of Scholarships and Grades, and in the All-University of Integrity of Scholarship and Grades which are included in *Spartan Life: Student Handbook and Resource Guide*. Students who plagiarize will receive a grade 0.0 on the assignment.

Disclaimer: The instructor reserves the right to make any changes he considers academically advisable. Changes will be announced in class page and it is your responsibility to keep up with any changed policies.