

Fall 2017
ME 207 Probability & Statistics for ME
Ali Ecdar

lecture hours: TT 78 (M 1100), Th 6 (M2230)

office hours: ThTh 78 (M 4225)

course web page: <http://ecdar.boun.edu.tr/fall17/me207.html>

course description: Elements of Probability and Statistics; Random Variables; Mathematical Expectation; Probability Distributions; Sampling Theory; Estimation Theory; Hypothesis Testing; Regression and Correlation Analysis; Analysis of Variance; Mechanical Engineering Applications.

prerequisites: Math 102 Calculus II

textbook: *“Introduction to Probability and Statistics”* by Milton and Arnold

list of topics:

- Introduction to Probability
- Random Variables and Probability Distributions
- Mathematical Expectation
- Discrete Distributions
- Continuous Distributions
- Sampling
- Estimation
- Hypothesis Testing
- Simple Linear Regression and Correlation
- Analysis of Variance

grading:

- Midterm Exam 1 – October 17, 2017 – 20 points
- Midterm Exam 2 – November 14, 2017 – 20 points
- Midterm Exam 3 – December 12, 2017 – 20 points
- Final Exam – 40 points (scheduled by the Registrar’s Office)

attendance:

- Attendance to lectures is required.
- Announcements made during lectures will be assumed "posted" to all students.
- Your final exam may also serve as a midterm exam make-up, i.e., your “final exam points divided by two” may make up for AT MOST ONE missed midterm exam grade, ONLY IF you have missed that midterm exam for medical reasons AND if you have submitted proper documentation (no later than the first lecture following the dates of absence indicated on your document) AND if you have not missed the final exam. No make-up points will be awarded for any additional exams missed.
- If you miss the final exam, you may take a final exam make-up (“excuse exam”) if you are granted that option by the make-up-exam committee. However, you may not use points earned by that exam to make-up for a missed midterm exam, i.e., final exam make-up may not also serve as a midterm exam make-up.