

IE 228 Engineering Statistics
Spring 2016-2017

Instructor:

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Textbook: Statistics for Engineers and Scientists, Fourth Edition with Connect Code
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Regarding Purchasing the Textbook:

1. The textbook can be purchased from Palme Kitabevi (Olgunlar Sok. No:4 D:5, Bakanlıklar, 06610).
2. The textbook comes together with an access code for the online system called “Connect”. Please ask Palme Kitabevi representatives to provide you the access code when you purchase the book.
3. Please do not purchase the textbook from another supplier or buy used books as they will not contain the Connect code.
4. Connect codes are individual and it is not possible to share them with other students.
5. Access to the Connect system will be explained by the McGraw Hill representative in the classroom.

Topics:

- Week 1: Introduction, Sampling, Data Types (1.1 from the book)
- Week 2: Summary Statistics (1.2 from the book)
- Week 3: Tables and Graphical Summaries (1.3 from the book)
- Week4: Review of Binomial and Normal Distribution (4.2 & 4.5 from the book)
- Week 5: Probability Plots, Central Limit Theorem, Point Estimation, Interval Estimation for Single Sample (4.10, 4.11, 5.1, 5.2, 5.3 & 5.8 from the book)
- Week 6: Interval Estimation for Two Samples; Prediction & Tolerance intervals (5.4, 5.5, 5.6, 5.7 & 5.9 from the book)
- Week 7: Hypothesis Testing for Single Sample (6.1, 6.2, 6.3 & 6.4 from the book)
- Week 8: Hypothesis Testing for Two Samples (6.5, 6.6, 6.7 & 6.8 from the book)
- Week 9: Tests for the Variances; Fixed-Level Testing; Contingency Tables and Tests with Categorical Data, Chi-Square Goodness of Fit Test (6.11, 6.12 & 6.10 from the book)
- Week 10: One Factor Experiments (9.1, 9.2)
- Week 11-12: Correlation and Simple Linear Regression (Chapter 7 from the book)
- Week 13-14: Multiple Linear Regression (Chapter 8)

Evaluation: Midterm 300,
4 Lab Works 300 (including self-study results at connect),
Final Exam 400 pts

Letter grades will be given according to the catalogue grading system described in Çankaya University regulations.

Attendance: Students are expected to attend all lecture and recitation/laboratory hours. Students who

- did not attend the midterm and its corresponding makeup,
- did not performed any of the self-study assignments,
- did not submit any of the lab works

will not be taken to the final exam and **NA** grade will be given.

Office Hours: Students can consult with the instructor during her office hour, if they have difficulty in understanding any material after they have tried their best. Other than the office hours, students have to make an appointment via email or phone **at least one day** advance to consult with the instructor.