

Fundamentals of Engineering Exam - Statistics

The following skills are recommended for students who plan to take the Fundamentals of Engineering Exam. There is a separate plan for the Mathematics section of the exam.

Choose your textbook from the dropdown menu. Once you have chosen the textbook, click on the words “study plan”. Expand the Chapter + to see the individual sections. Each section has examples presented on video. (click the video icon  on the right of your screen). There are also several exercises available for practice. If you need help with an exercise, you can click on the menu to the right for help, to read the related section of the textbook, or to see additional examples.

Textbook: **Triola: Essentials of Statistics, 3e**

- Chapter 3 - Statistics for Describing, Exploring and Comparing Data
 - Sec 3.2 Measures of Center
 - Sec 3.3 Measures of Variation
 - Sec 3.4 Measures of Relative Standing
- Chapter 4 – Probability
 - Sections 4.1- 4.7 Fundamentals, Counting, Conditional Probability and Bayes’ Theorem
- Chapter 5 – Discrete Probability Distributions
 - Sec 5.2 Random Variables
 - Sec 5.3 Binomial Probability Distribution
 - Sec 5.4 Mean and Variance for Binomial Distribution
- Chapter 6 – Normal Probability Distribution
 - Sec 6.2 The Standard Normal Distribution
 - Sec 6.3 Applications of the Normal Distribution
 - Sec 6.4 Sampling Distributions and Estimators
 - Sec 6.5 Central Limit Theorem
- Chapter 7 – Estimates and Sample Sizes
 - Sections 7.1- 7.5 Estimating a Population Proportion and Variance
- Chapter 8 – Hypothesis Testing
 - Sections 8.1- 8.6 Basics, Testing a Claim about a proportion, Testing a Claim about a Mean
- Chapter 10 – Correlation and Regression
 - Sec 10.2 Correlation
 - Sec 10.3 Regression