BMCC Mat 150 - OER Version - Course Map - Professor McCarthy

Module Title	Learning Outcomes Covered	Assessment	OER Provided	Section of OER Used	License
Introduction (2 hours)	Introduction: Overview, Nature of Data, and Uses and abuses of Statistics	quizzes and homework	www.openstax.org	Chapter 1 (Introductory Statistics by OpenStax)	Creative Commons Attribution License v4.0
Exploring Data & Descriptive Statistics (8 hours)	Exploring data, Frequency distributions, visualizing data, Measures of Center, Measures of Variation, Measures of relative standing.	quizzes and homework	www.openstax.org	Chapter 2 (Introductory Statistics by OpenStax)	Creative Commons Attribution License v4.0
Probability (4 hours)	Probability: Fundamental addition rule, multiplication rule, conditional probability and counting.	quizzes and homework	www.openstax.org	Chapter 3 (Introductory Statistics by OpenStax)	Creative Commons Attribution License v4.0
Probability Distributions (6 hours)	Probability Distributions; Random variables; binomial distributions; their means, variance and standard deviations.	quizzes and homework	www.openstax.org	Chapters 4 & 5 (Introductory Statistics by OpenStax)	Creative Commons Attribution License v4.0
Normal Probability Distributions (8 hours)	Normal Probability Distributions; Sampling distributions and the Central Limit theorem	quizzes and homework	www.openstax.org	Chapters 6 & 7 (Introductory Statistics by OpenStax)	Creative Commons Attribution License v4.0
Inferential Statistics - Confidence Intervals (8 hours)	Confidence Intervals, Estimates and Sample Sizes	quizzes and homework	www.openstax.org	Chapter 8 (Introductory Statistics by OpenStax)	Creative Commons Attribution License v4.0
Inferential Statistics - Hypothesis Testing (8 hours)	Steps to test a hypothesis; claims about the mean. P-values and hypothesis tests on proportions	quizzes and homework	www.openstax.org	Chapter 9 (Introductory Statistics by OpenStax)	Creative Commons Attribution License v4.0
Inferential Statistics - Correlation and Regression (8 hours)	Correlation and Regression	quizzes and homework	www.openstax.org	Chapter 12 (Introductory Statistics by OpenStax)	Creative Commons Attribution License v4.0
Inferential Statistics - Chi-squared Tests (optional) (2 hours)	Chi-squared tests of independence and goodness of fit	quizzes and homework	www.openstax.org	Chapter 11 (Introductory Statistics by OpenStax)	Creative Commons Attribution License v4.0

Textbook:

Introductory Statistics by OpenStax

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https://openstax.org/details/books/introductory-statistics