



COURSE SYLLABUS

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COURSE: MAT 152 STATISTICAL METHODS I

HOURS: Lecture: 3 Lab/Shop: 2 Work Exp/Clinical: 0 Credits: 4

COURSE DESCRIPTION:

This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion, students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for mathematics in the A.A. degree program. This course has been approved to meet the mathematics requirement in A.A.S. degree programs.

PREREQUISITE(S): DMA 010-050 or MAT 003 Tier 2 or MAT 043 or MAT 052 or BSP 4003 Tier 2, DRE 098 or ENG 002 or BSP 4002 or ENG 111

COREQUISITE(S): None

TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

Open Educational Resources (OER) are listed in the course Moodle.

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, the student will be able to:

1. Organize, display, calculate, and interpret descriptive statistics.
2. Apply basic rules of probability.
3. Identify and apply appropriate probability distributions.
4. Perform regression analysis.
5. Analyze sample data to draw inferences about a population parameter.
6. Communicate results through a variety of media.

*****Please refer to the online version of the Richmond Community College Program & Course Catalog and the Student Handbook for current academic and general information.**