



MONROE COUNTY  
COMMUNITY COLLEGE

# Course Outcome Summary

**Standard Course**

## **Mathematics 162 – Introduction to Statistics**

### **Course Information**

<b>Division</b>	Science/Mathematics
<b>Contact Hours</b>	60
<b>Total Credits</b>	4

### **Prerequisites**

RDG 090, ENGL 090, and C or better in MATH 124 or MATH 151, or qualifying scores on accepted placement tests

### **Course Description**

An introductory course to acquaint the student with the theory and application of statistical methods that are used in business, health care, and the natural and social sciences. Topics include graphical representations of data, measures of central tendency, probability and probability distributions, sampling distributions, correlation and regression, inferences for categorical and quantitative data, confidence intervals and hypothesis testing. Emphasis is on interpretation and evaluation of statistical results. Calculators and statistical software will be utilized. The course outcome summary may be found at

<https://www.monroecc.edu/sites/default/files/course-outcomes/MATH/MATH%20162%20COS.pdf>

### **Course Outcomes**

To evidence success in this course, students will be able to:

1. Represent data using tables and graphs.
2. Calculate measures of central tendency and probabilities for sampling distributions.
3. Calculate correlation coefficients and use linear regression to make predictions.
4. Construct confidence intervals.
5. Perform hypothesis testing for one- and two-sample data.
6. Correctly interpret results of descriptive and inferential statistical analyses.

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