Marshall University

College of Science

Mathematics Department

MTH 326: Applied Statistical Methods

Course catalog description

Use of statistical packages; introduction to descriptive, probability and sampling distributions; forecasting, inferences concerning one and two samples; simple and multiple regression, analysis of variance and covariance.

Credit hours

3 hours

Prerequisites

A grade of C or higher in MTH225.

Learning outcomes

- manipulate data
- carry out statistical analyses with the use of statistical packages, especially R
- carry out tests of hypotheses
- identify various estimation procedures and explain their properties
- interpret results obtained from statistical procedures
- choose appropriate regression analysis for specific statistical experiments
- perform analyses and variance and covariance

Suggested textbooks

- Yosef Cohen and Jeremiah Y. Cohen, *Statistics and Data with R: An Applied Approach Through Examples*, Wiley, 2008. ISBN 978-0-470-75805-2

Last updated

December 2016