

Anoka Technical College

BDAT 1030: Data Analysis

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 3

Lab Hours/Week: 2

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: BDAT 1025 and BDAT 1025

MnTC Goals: None

This course is designed to introduce the fundamental concepts and statistical procedures used in data analytics, visualizations, and data management. Hands-on labs will be used to enhance student learning. (Prerequisite: None) (3 credits lecture/1 credit lab)

B. COURSE EFFECTIVE DATES: 05/31/2016 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Data analytics
2. Statistical procedures
3. Data analysis computer applications
4. Data file construction and manipulation
5. Data definition
6. Multivariate techniques

D. LEARNING OUTCOMES (General)

1. Describe variables and relationships among variables.
2. Define probability and decision-making.
3. Interpret data and create report for management.
4. Identify sampling, hypothesis, and statistical inference.
5. Explain regression analysis and time series forecasting.
6. Discuss optimization and simulation modeling methods.
7. Develop a conceptual and mathematical understanding of statistics.
8. Comprehend data model development.
9. Apply hypothesis testing and interpretation of data.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted