

# Anoka Technical College

## **BDAT 1025: Data Preparation for Analytics**

### **A. COURSE DESCRIPTION**

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: BDAT 1030

MnTC Goals: None

This course is designed to develop student proficiency in data management skills for decision making and use of analytic applications. topics include methods and techniques for identification, retrieval, and preparation of data for processing with analytical software. This course demonstrates the skills necessary to effectively organize and retrieve quality data from different data sources for analytic applications. The latest tools and technologies will be used to perform hands-on labs. (Co-requisite: BDAT 1030)

**B. COURSE EFFECTIVE DATES:** 04/14/2017 - Present

### **C. OUTLINE OF MAJOR CONTENT AREAS**

1. Data extraction
2. Analytic tools
3. Data validation
4. Data transformation
5. Data loading

### **D. LEARNING OUTCOMES (General)**

1. Define the importance of data quality.
2. Prepare unstructured and structured data.
3. Identify errors and correct inconsistent data.
4. Accurately identify and gather data required for analysis.
5. Prepare data to ensure data quality.
6. Determine proper methods and techniques to retrieve data.
7. Organize and combine data from different sources.
8. Utilize various analytic tools to efficiently perform data preparation activities.

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

None

### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

### **G. SPECIAL INFORMATION**

None noted