**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

# **GENERAL COURSE INFORMATION**

Course Number: BSTC 1023

Course Title: Database Management Systems

Credit Hours: 3

Prerequisite: BSTC 1036 Computer Concepts and Applications with a “C” or better

Division/Discipline: Workforce Training and Community Education/Business Technology

Course Description: This course introduces the theory of databases and Database Management Systems (DBMS) and implements a database using DBMS software. Database design methodology is discussed. A DBMS is used to create a database and generate solutions to implement a business application. Students create tables, forms, filters, queries, reports, and macros. Various types of data are imported and exported. Database security issues are examined.

# **INSTRUCTOR INFORMATION**

# **COLLEGE POLICIES**

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The College reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage.)

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at [disabilityservices@bartonccc.edu](mailto:disabilityservices@bartonccc.edu).

# **COURSE AS VIEWED IN THE TOTAL CURRICULUM**

This course is designed to provide in-depth training for database management systems. Hands-on experience with database software is provided. Understanding database technology will be invaluable to any student who uses computers in their home, job, or profession. This course is open to any student. It is a major requirement or major elective in multiple Business, Technology, and Administrative Technology programs.

The transferability of this course varies among 4-year colleges and universities. Students are responsible to obtain relevant information from intended transfer institutions to insure that the courses the student enrolls in are the most appropriate set of courses for the transfer program.

# **ASSESSMENT OF STUDENT LEARNING**

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

## Course Outcomes, Competencies, and Supplemental Competencies:

1. Recognize database system concepts and terminology
   1. Identify the components of a table
   2. Associate relationships between tables
   3. Describe components of queries, forms and reports
2. Design and implement a database using a DBMS
   1. Choose potential fields, tables, and relationships
   2. Implement a table with appropriate fields and settings
   3. Classify relationships between tables
   4. Apply data entry techniques
   5. Demonstrate importing and exporting of data
3. Update and maintain a DBMS
   1. Apply filters, selection queries, and action queries
   2. Create standard and custom forms
   3. Implement standard and custom reports
   4. Apply lookup fields and validation rules
   5. Create simple macros
4. **INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS**

# **TEXTBOOKS AND OTHER REQUIRED MATERIALS**

# **REFERENCES**

# **METHODS OF INSTRUCTION AND EVALUATION**

# **ATTENDANCE REQUIREMENTS**

1. **COURSE OUTLINE**