

Ridgewater College

CST 1600: Relational Database Design

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is designed for a student entering the computer systems field who desires an understanding of relational databases. Students will apply relational database concepts and principles using MySQL. Topics covered in this course are: relational database design, tables, records, fields, data normalization, data types, primary and foreign keys, relationships, and queries. This course is based on the use of textbook study and hands-on structured labs assigned by the Instructor.

B. COURSE EFFECTIVE DATES: 08/21/2006 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Describe data organization and relational databases.
2. Define databases.
3. Design, create, and modify tables.
4. Insert, update, and delete table data.
5. Sort data in a query.
6. Define record selection criteria for queries.
7. Perform calculations using queries.
8. Use database management tools to modify a database.
9. Define table relationships, primary and foreign keys.
10. Use conditional rules and aggregate functions to select query results.
11. Describe database integrity, determinants, dependencies, anomalies, and normalization.
12. Use database tools to design and model databases, tables, relationships, and queries.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted