North Hennepin Community College

CSCI 1040: Fundamentals of Structured Query Language (SQL)

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

The goal of this course is to teach students how to design, build and use databases utilizing Microsoft SQL Server. The students will also learn to enter and retrieve information. They will learn SQL commands and query creation, including complex multi-table joins, and display and analyze query results. Students will design their own databases and deploy them on Microsoft SQL Server.

Possessing skills in performing common Windows tasks working with applications, or taking CSci 1000, is highly recommended.

B. COURSE EFFECTIVE DATES: 01/01/2016 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. The course emphasizes the practical aspects of database management system (DBMS) using a popular DBMS Microsoft SQL Server. Transactional Structured Query Language (Transact-SQL) should be taught from the basics through table joining principles.

D. LEARNING OUTCOMES (General)

1. Develop critical thinking skills applicable to data analysis and organization. (Program goal A. NHCC Core Abilities Critical Thinking comps. a, b, c, d)
2. Comprehend T-SQL querying language to the extent needed for selective display of data (Program goal D)
3. Analyze data for designing simple databases (Program goal C)
4. Use the SQL Server integrated environment for query building and analyzing the results (Program goal B)

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

1. Knowledge of Human Cultures and the Physical and Natural World --Through study in the sciences, mathematics, social sciences, humanities, histories, languages, the arts, technology and professions.

2. Intellectual and Practical Skills - Including: Inquiry and analysis; Critical and creative thinking; Written and oral communication; Quantitative literacy; Information literacy; Teamwork and problem solving.