

**Northwestern Connecticut Community College
Course Syllabus**

Course Title: Database Development II

Course #: CSC 234

Course Description: 4 credits. This course addresses advanced topics in database management including SQL coding for database creation and access with platform independence. Data normalization and relation calculus are covered as the theory of data access. Major database management packages will be discussed, installed and administered. Actual business scenarios will be developed, and solutions created for them.

Pre-requisite/Co-requisite: CSC 233 or with the consent of the instructor

Goals: Students are expected to:

- Develop skills in selecting the appropriate database based on user requirements.
- Master the skills in database creation and administration.
- Increase their SQL skills to optimize queries for efficiency.
- Analyze various database management systems to determine storage options.
- Refine skills in data normalization to optimize storage.

Outcomes: Upon successful completion of this course students will be able to:

- Select the optimal database to solve problems and tasks in business
- Demonstrate analysis skills to determine optimal database configuration
- Create a fully normalized database from a design schema
- Migrate data from other systems
- Administer a SQL Server database creating database users and groups
- Develop optimized SQL to solve business problems
- Implement security on a database