

Course Abstract

If you need accommodations due to a disability, contact Disability Services in Edison Hall Room 100, 732.906.2546.

To foster a productive learning environment, the College requires that all students adhere to the Code of Student Conduct which is published in the college catalog and website.

Course ID and Name: CSC239 – Database Concepts

Department: Business and Computer Science

Chairperson or Course Coordinator: Dr. Aslihan Cakmak

Office Location: ED123

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Prerequisites: CSC 106 or CSC 133 or CSC 161

Co-requisites: None

Course Description:

This course will provide the student with a thorough understanding of what a database is and how it is used. Emphasis will be placed on the relationship and use of a database for the effective storage and retrieval of user data. The use of structured query language (SQL) will be presented. Hands-on laboratory experience will provide the student with practical applications in the use of databases.

General Education Status: N/A

Credits: 3 Lecture Hours: 2 Lab Hours: 3

Learning Outcomes:

Upon successful completion of this course, a student will be able to:

1. Explain the steps in creating and using a database.
2. Define a database structure using normalization
3. Enter data using appropriate structured query language to build a database.
4. Define search criteria using structured query language.
5. Demonstrate the ability to use an industry standard database system.

Course Content Areas:

- General Database Concepts
- Entity-Relationship
- Normalization
- Transaction Management and Concurrency Control
- Distributed Database Management Systems
- Data Warehouse
- Structure Query Language