

COSC 190-DATABASE CONCEPTS & PRINCIPLES 3 CREDITS

SYLLABUS

CATALOG DESCRIPTION

A study of how relational databases are designed for maximum data manipulation is the first step in the field of data management and analytics. Topics covered include core database concepts, how to create database objects and manipulate data. May be preparation for an industry certification exam.

Prerequisites: MATH-096, ENGL-095 and (RDNG-099 or RDNG 113) or appropriate Math, English, and Reading Accuplacer scores.

Semester Offered: Spring



Course Learning Outcomes

Upon successful completion of the course, the student will be able to...

- 1. Describe how data is stored in tables.
- 2. Understand relational database concepts.

A copy of this approved syllabus is on file in the dean's office. Updated 2017-05-01

- 3. Select, insert, update and delete data.
- 4. Understand data manipulation language (DML) and data definition language (DDL).
- 5. Choose data types.
- 6. Understand tables and how to create them.
- 7. Create views.
- 8. Understand normalization.
- 9. Understand primary, foreign, and composite keys.
- 10. Create stored procedures and functions.
- 11. Understand indexes.
- 12. Examine database security concepts.
- 13. Create database backups and restore.