



# SCHOOL OF STEM SYLLABUS



**TERM:**

**INSTRUCTOR:**

**COURSE CODE:** CSC-226

**OFFICE HOURS:**

**COURSE TITLE:** Database Design and Concepts

**OFFICE LOCATION:**

**DAY(S) AND TIME(S):**

**EMAIL:**

**LOCATION:**

**PHONE:**

**COURSE PREREQUISITE:** Complete one course from: CSC-111, CSC-115, CSC-117 OR CSC-118

**CREDITS:** 3

**COURSE DESCRIPTION:**

This course provides both the basis for a solid education in the fundamentals of database technology and introductory coverage of SQL. The topics covered include database management systems, relational database systems, query languages, and application development systems.

**STUDENT LEARNING OUTCOMES:**

Upon completion of this course, students should be able to:

1. Learn fundamental data modeling principles
2. Apply relational modeling in database design
3. Identify possible problems in database systems and discuss how they may be alleviated or overcome
4. Design and build a relational database for a small business application for user requirements.
5. Use suitable query languages to interrogate a relational database

**TEXTBOOK AND SUPPLEMENTAL MATERIALS:**

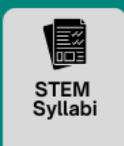
Database Processing: Fundamentals, Design and Implementation, 15th Edition, by David M. Kroenke

**GRADING POLICY:**

<b>Four Exams</b>	<b>80%</b>
<b>Project</b>	<b>20%</b>

## STEM STUDENT HUB

Information & Resources tailored towards students taking any STEM courses



## SAMPLE COURSE SCHEDULE:

<b>Week 1</b>	Introduction (Chapter 1)
<b>Week 2</b>	Introduction to Structured Query Language (Chapter 2)
<b>Week 3</b>	Chapter 2 continued
<b>Week 4</b>	The relational Model and Normalization (Chapter 3) <b>Test 1</b>
<b>Week 5</b>	Chapter 3 Continued
<b>Week 6</b>	Database Design Using Normalization (Chapter 4)
<b>Week 7</b>	Chapter 4 Continues
<b>Week 8</b>	<b>Test 2</b>
<b>Week 9</b>	Data Modeling with Entity Relationship Model (Chapter 5)
<b>Week 10</b>	Chapter 5 Continues
<b>Week 11</b>	Transforming Data Models into Database Design (Chapter 6)
<b>Week 12</b>	<b>Test 3</b>
<b>Week 13</b>	Creating Tables in SQL (Chapter 7)
<b>Week 14</b>	Review
<b>Week 15</b>	<b>Test 4</b>

## HCCC POLICIES, STATEMENTS, AND SERVICES:

<https://www.hccc.edu/administration/academic-affairs/syllabus-addendum.html>





