

Course Description

Prerequisites: COSC 1337. This course covers information systems design and implementation within a database management system environment. Students will design and construct a system using database software to implement the logical design.

Class Time

Mon/Wed 2:30pm – 3:55pm COB 207

Tue/Thu 8:00am – 9:20am COB 255

Instructor Information

Dr. Robert P. Schumaker

Professor, Computer Science Dept.

rschumaker@uttyler.edu

Office Hours

DM through Slack (preferred), Zoom, email

If your inquiry is grade-related, please make a Zoom or physical appointment

No appointments needed for Tuesdays and Thursdays 12:30pm – 2:00pm in COB 315.05

Textbook Information

Database Design for Mere Mortals (Hernandez)

ISBN: 978-0-13-678804-1

Course Objective

- Learn and apply a systematic process for information system development
- Develop the ability to use the latest tools and techniques to develop information systems
- Create appropriate documents for requirements, functional design, implementation and user training
- Develop an understanding of the current state of the art by preparing and presenting a term paper on a current topic in information systems
- Develop an ability to work cooperatively to develop a high quality information system

Computer Account Access

Students will need a Patriot account and password for computer access. This information can be found at <https://www.uttyler.edu/ccs>

Course Documents and Slides

This class will use Canvas for course documents, slides, quizzes and other class-related materials. Students are encouraged to check the website frequently during the course of the semester to keep up to date about course activity.

Course Grading

Course evaluation will be based on the following:

Homeworks (4 @ 10 points each)	40
Quizzes (10 @ 5 points each, drop 1)	45
Lifelong Learning	5
Class Participation	10
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Total Points	100

Grading Scale

- A 90.0 points or more
- B 80.0 to 89.999 points
- C 70.0 to 79.999 points
- D 60.0 to 69.999 points
- F 59.999 points or less

Course Policies

1. Homeworks – Homeworks will be periodically assigned with specific deadlines. Students will practice the skills learned against the course database.
2. Quizzes – Quizzes will be given at the beginning of specific classes and will test the student’s mastery of the material. Missed quizzes cannot be made up without acceptable emergency-related documentation. The lowest quiz will be dropped and used as bonus points.
3. Lifelong Learning – It is imperative for successful individuals to continue learning throughout their lifetime. Professional organizations are a wonderful opportunity to reinvent, retool and build connections with industry leaders. Students that attend a professional technology organization meeting (and bring proof of attendance) will receive five points. Upcoming meetings and events can be found on Canvas. Online webinars will be accepted.
4. Class Participation – Class Participation points will be scored by the quantity of quality discussion a student contributes regarding relevant technology-related articles. The maximum points that can be earned is ten.
5. Missed Classes, Tests/Quizzes and Assignments – Students who miss class are responsible for getting missed materials and lecture information on their own time from their peers. Any tests/quizzes and/or assignments due during the student’s documented absence will be due by 5pm of the day of their return with no penalty.
6. Classroom Lab Rules
 - Please do not surf the Web during class unless instructed to access the Internet
 - Do not access inappropriate Web sites during class. This will lead to dismissal from the class
 - Please do not work on other computer assignments during class
 - Please do not talk to your neighbor during class
 - Do not use the printer during class
 - Please do not bring food or an uncovered drink into the computer classroom lab
 - Please do not order food to be delivered to the classroom
 - Do not use your phone during class

Tentative Course Schedule and Assignments

Date	Concept	Assignments
Jan 9/10	Introduction to Database	
Jan 11/12	Ch 1 - The Relational Database	
Jan 16/17	No Classes - MLK Day	
Jan 18/19	Ch 2 - Design Objectives	
Jan 23/24	Ch 3 - Terminology	
Jan 25/26	mySQL Navigation	
Jan 30/31	Ch 4 - Conceptual Overview	
Feb 1/2	mySQL Querying Data	
Feb 6/7	Ch 5 - Starting the Process	
Feb 8/9	Ch 6 - Analyzing the Current Database	Q1, H1
Feb 13/14	mySQL Datatypes and Structures	
Feb 15/16	Ch 7 - Establishing Table Structure	Q2
Feb 20/21	mySQL Creating Tables	
Feb 22/23	Ch 8 - Keys	Q3
Feb 27/28	mySQL Alter, Modify and Keys	
Mar 1/2	Ch 9 - Field Specifications	Q4, H2
Mar 6/7	Creating Data Dictionaries	
Mar 8/9	Ch 10 - Table Relationships	Q5
Mar 13/14	No Classes - Spring Break	
Mar 15/16	No Classes - Spring Break	
Mar 20/21	mySQL Joining Tables	
Mar 22/23	mySQL Joining More Tables	Q6
Mar 27/28	mySQL Types of Joins	
Mar 29/30	mySQL Update	Q7, H3
Apr 3/4	mySQL Delete	
Apr 5/6	mySQL Where	Q8
Apr 10/11	mySQL Group By	
Apr 12/13	mySQL Having	Q9
Apr 17/18	mySQL Order By and Limit	
Apr 19/20	mySQL Database Administration	Q10, H4

Assignment Key

H – Homework

Q – Quiz