CIT 213: Introduction to Databases

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E-mail: mosterm@uncw.edu	**Email Response Time:** $\leq$ 48hrs
Office: Congdon 2022	**Office Hours**: WR 9:30-11:30am & by appt
Classroom: Bear 165	**Time**: T/Th 3:30-4:45pm
Final Exam: Tuesday, December 9, 3-6pm	Bear 165

This syllabus is subject to change, but only with sufficient notification.

Course Information

Course Description

Fundamental concepts of database management systems, including advantages of using database management systems, data modeling, relational database design, query-building, security, privacy and ethical issues, and introductions to Web-based processing, Big Data concepts, and non-relational models.

Prerequisites: CIT 110

Student Learning Outcomes

Upon completion of this course, students will have demonstrated:

1. Students can explain why databases are used and how databases differ from and improve upon lists and spreadsheets.

2. Students can describe the components of a database system using correct terminology.

3. Students can apply basic principles of relational database design to collect and analyze end-user requirements, employ a design process, and successfully implement a working database.

4. Students can create and execute database queries.

5. Students can discuss basic security, privacy and ethical issues as they relate to technology.

Course Requirements

Required Materials

- *Fundamentals of Database Management Systems*, (3rd Edition) 2023 by Mark L. Gillenson

    – ISBN (eBook): 978-1119907428
    – ISBN (print): 978-1119907442

Required Computer & Digital Literacy

Students must demonstrate the following skills:

- Using Microsoft Word or Google Docs

- Saving documents and uploading them to Canvas

- Using correct grammar to compose and reply to emails

- Managing and organizing local files

Students are expected to have a consistent, reliable Internet connection and a personal computer. Mozilla Firefox, Google Chrome, and Microsoft Edge are suggested browser choices.

Course Policies

Instructor Communications Policy: If you have any questions, comments, or concerns about the course at any time, please feel free to reach out to me at mosterm@uncw.edu. I will respond as soon as I am able to, generally on weekdays that means within 24 hours and on weekends within 48 hours. If you have not received a response to your email *after* 48 hours have elapsed, please send a follow-up email. **Please include CIT 213 in your email subject line for faster responses.**

Calendar: It is the student's responsibility to check the online calendar (which is subject to change) and to complete the assignments as indicated. Failure to check the calendar daily is not an acceptable excuse for missing a due date.

AI Usage: Unless explicitly stated in an assignment's instructions, AI should not be used in this course. The use of AI will be considered cheating and a violation of the UNCW Honor Code.

Instructional Overview

A Course Schedule of each assignment and the tentative due dates is provided through the course on Canvas to provide a better understanding of what will be expected of students during this course. The dates listed are subject to change, so students are expected to adhere to the due dates provided for each assignment on Canvas.

Module Objectives

Every Module contains the following content:

- **Learn**

  - Read the chapter associated with the module.
  - Review the lectures slides to reinforce material.

- **Practice**

  - Complete critical thinking and practical labs to gain hands-on experience.

- **Apply**

  - Test your knowledge of module content.

You are expected to complete and submit any files as indicated throughout the semester. Note that any instructions are provided within the submission page. These are subject to updates, which I will announce if any occur.

The Labs and Quizzes are all submitted for a grade. Check-in Quizzes are performed in person during class hours. You are expected to be present at these times or receive a zero for the assignment.

There will be a **Final Exam** at the end of the course. This exam will test your understanding of terminology, standards, and concepts discussed in the course. You will also be expected to understand and apply course concepts learned throughout the course.

Grading Breakdown

Course averages will be determined as follows:

Assignment Group	Weight
Labs	40%, lowest dropped
Check-in Quizzes	20%
Quizzes	20%, lowest dropped
Final Exam	20%

Grading Policy

All grades will be posted on Canvas, but please be advised that Canvas may not always be correct in your weighted grade. Please calculate your grade based on the above percentages. If you have questions about your grade, or how the grading works, please talk to me.

You have two weeks from when a grade is returned to dispute it.

I reserve the right to curve the scale dependent on overall class scores at the end of the semester. Any curve will only ever make it easier to obtain a certain letter grade.

Numeric Score	Letter Grade
94 – 100	A
90 – 93	A-
87 – 89	B+
84 – 86	B
80 – 83	B-
77 – 79	C+
74 – 76	C
70 – 73	C-
67 – 69	D+
64 – 66	D
60 – 63	D-
0 – 59	F

Campus Policies and Information

Students with Disabilities

If you have a disability and need reasonable accommodation in this course, you should inform the instructor of this fact in writing within the first week of class or as soon as possible. If you have not already done so, you must register with the Office of Disability Services in DePaolo Hall (extension 2-7555) and obtain a copy of your Accommodation Letter. You should then meet with your instructor to make mutually agreeable arrangements based on the recommendations of the Accommodation Letter. At least a week prior to any test or exam, you should work with the instructor and the Office of Disability Services to arrange a mutually agreed arrangement for accommodation.

Honor Code

All members of UNCW's community are expected to follow the academic Honor Code. Please read the UNCW Honor Code carefully (as covered in the UNCW Student Handbook and available here: https://uncw.edu/about/university-administration/student-affairs/departments/dean-students/honor-code/).

Academic dishonesty in any form will not be tolerated in this class. If you cheat, you should expect to fail the course.

Please be especially familiar with UNCW's position on plagiarism as outlined in the UNCW Student Handbook. Plagiarism is a form of academic dishonesty in which you take someone else's ideas and represent them as your own. Here are some examples of plagiarism:
1. You write about someone else's work in your paper and do not give them credit for it by referencing them.
2. You give a presentation and use someone else's ideas and do not state that the ideas are the other person's.
3. You get facts from your textbook or some other reference material and do not reference that material.

UNCW Copyright Use and Ownership Policy

Any dissemination of class notes, lecture slides, recordings, handouts, copies of exams, or any other course materials without permission of the instructor is prohibited by UNCW policy.

https://uncw.edu/about/policies/administration/01.210-copyright-policy specifies that class notes and related materials are considered derivative of original intellectual property of the course instructor. Therefore, the instructor (not the student) owns the copyright and must provide specific permission to distribute and/or reuse those materials for anything other than personal use and scholarship by the student. Commercial use, display, or dissemination of such notes, copies, or recordings – as well as posting to websites – will generally constitute an infringement of copyright and the Honor Code. Materials that qualify as student-owned are listed in the policy.

Responsible Use Policy

The University's policy on the responsible use of electronic resources also applies to all work for this course. See https://uncw.edu/about/policies/technology/07.100.00-responsible-use-of-information-technology-resources.

Title IX

UNCW takes all forms of interpersonal violence very seriously. When students disclose, first- or thirdhand to faculty or staff about sexual misconduct, domestic violence, dating violence and/or stalking, this information must be reported to the administration in order to ensure that students' rights are protected, appropriate resources are offered, and the need for further investigation is explored to maintain campus safety. There are three confidential resources who do not need to report interpersonal violence: UNCW CARE, the Student Health Center, and the Counseling Center. If you want to speak to someone in confidence, these resources are available, including CARE's 24-hour crisis line (910-512-4821). For more information visit https://uncw.edu/titleix and https://uncw.edu/care.

Incomplete Grades

Incomplete grades are given rarely and only in very specific situations. First, the student must be passing. Next, the student must be able to complete the work of the course entirely on his or her own. Finally, the student must be prevented from completing the course by verified, unforeseen circumstances beyond the control of the student. These conditions must be documented and verified before an incomplete grade may be given.

Course Calendar

It is the student's responsibility to check the online calendar on Canvas and to complete the assignments as indicated. The online calendar is subject to change. Failure to check the online calendar or UNCW email is not an acceptable excuse for missing a due date. The course calendar is subject to change and any changes will be indicated through email communication and Announcements.

The start date for each module indicates the official day you are expected to start that module. Expect that each module will be laid out in the same fashion unless otherwise stated during class meetings. Weeks with no listed activity indicate continuation of the previous module listed and to account for the possibility of missed class meetings.

Start Date	Assignments	Due Date
8/20	Getting Started	
8/25	Module 1: Data – The New Corporate Resource	9/8
9/1	Module 2: Data Modeling	9/15
9/8	Module 3: The Database Management System Concept	9/22
9/15	Module 4: Relational Data Retrieval – SQL	9/29
9/22	Module 5: The Relational Database Model – Introduction	10/6
9/29	Module 6: The Relational Database Model – Additional Concepts	10/13
10/6	**(Fall Break, no class 10/9)**	
10/13	Module 7: Logical Database Design	10/27
10/20	Module 8: Physical Database Design	11/3
10/27	Module 9: Object-Oriented Database Management	11/10
11/3	Module 10: Data Administration, Database Administration, and Data Dictionaries	11/17
11/10	Module 11: Database Control Issues – Security, Backup and Recovery, Concurrency	11/24
11/17	Module 12: The Data Warehouse	12/1
11/24	**(University Holiday, no class 11/26 – 11/29)**	
12/1	**(Reading Day, no class 12/4)**	
12/08	**Final Exam, December 9, 3-6 PM, Bear 165**	12/9