

**CS 315: Modern Database Management
Spring 2018
College of Arts & Sciences Syllabus**

COURSE INFORMATION

Credit Hours: 3

Course Description: Theoretical foundations and state-of-the-art data base management systems. The relational, hierarchical and network approaches to data base management systems and representative systems are described. User interfaces are emphasized.

Course Prerequisites: : CS-201 minimum grade of C and CS-207 minimum grade of C.

FACULTY INFORMATION

Instructor: Oguzcan Adabuk.

Office Location: Skype: prof.adabuk@hotmail.com

Office Hours: Thursday 7:00 PM – 8:00 PM, By Appointment

Phone Extension: 4720.

E-mail: oadabuk@neiu.edu.

COURSE MATERIALS

List of Required Texts / Materials:

Database Systems: A Practical Approach to Design, Implementation, and Management. Author: Thomas Connelly and Carolyn Begg. 6th edition.

COURSE OBJECTIVES / STUDENT LEARNING OUTCOMES

Students will be able to

- To understand the fundamental concepts of relational database management systems.
- To understand how to design a database.
- To learn SQL.
- To understand the real-world tradeoffs between normalization and de-normalization.
- To create a database system and a web application that interacts with it.
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STUDENT TASKS / ASSIGNMENTS / REQUIREMENTS

Assignments:

There will be several homework assignments throughout the semester.

Discussion Board:

Students are required to participate online discussions. There are total of 6 discussions. You are allowed to miss one discussion. To receive points for each discussion, students are required to give satisfying answers / description / opinion for each discussion topic.

Quizzes:

There will be two online quizzes.

Exams:

There will be an online midterm.

Final Project:

The final project will require students to demonstrate all the skills they have learned throughout the semester.

Grading Policies and Formulae:

- Assignments: 20%
- Discussion Board: 10%
- Quizzes: 10%
- Online Midterm Exam: 35%
- Final Project: 25%

Grade Determination:

- A: 90-100%
- B: 80-89%
- C: 70-79%
- D: 60-69%
- F: 0-59%

Course Outline:

Weekly Topic Outline:

Week	Course Topics	Readings	Exams
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1	Introduction	Chapter 1	
2	Database Environment	Chapter 2-3	
3	SQL Introduction	Chapter 6	
4	SQL	Chapter 6	Online Quiz 1
5	Relational Model	Chapters 4 and 7.4	
6	Views	Chapters 4 and 7.4	
7	DBMS Lifecycle/Fact-Finding Techniques	Chapters 10-11	
8			Online Midterm Exam
9	ER Modeling	Chapter 12	
10	Enhanced ER Modeling	Chapter 13	
11	Spring Break		
12	Normalization	Chapters 14	
13	Normalization	Chapter 14	Online Quiz 2
14	Methodology for Database Design	Chapters 16	
15	Database Issues	Chapters 20	
16			Final Projects Due

COURSE POLICIES AND STATEMENTS

Absence Policy:

-This is an online course, attendance will not be taken.

Academic Integrity Policy:

By enrolling in this course, you are bound by the NEIU Student Code of Conduct:

<http://www.neiu.edu/university-life/student-rights-and-responsibilities/student-code-conduct>.

Cheating and plagiarism will not be tolerated. Students who violate the NEIU academic conduct policy may receive an F grade for that assignment, quiz, exam, project or the final course grade.

Other Policies

- No makeup exams or quizzes will be given. If you miss an exam or quiz, you will receive an F for that exam/quiz.
- You must complete your assignments by yourself. You may use the textbook and your lecture notes, and you may ask me or the tutor for help. However, you may not share any files of any sort with anyone, and you may not receive any files from any tutor or any person other than me. If I determine that you have shared code or files or if two or more people turn in identical or essentially identical programs / assignments /set of answers, you will receive a '0' for that assignment. If it happens again, you will receive an 'F' for the course and may be subject to further academic discipline as per NEIU Student Code.
- Emails that are asking for "extra credit work" will be ignored.

ADA Statement:

Northeastern Illinois University (NEIU) complies with the Americans with Disabilities Act (ADA) in making reasonable accommodations for qualified students with disabilities. To request accommodations, students with special needs should make arrangements with the Student Disability Services (SDS) office, located on the main campus in room D104. Contact SDS via (773) 442-4595 or <http://www.neiu.edu/university-life/student-disability-services>.

Campus Safety:

Web links to Campus Safety: Emergency Procedures and Safety Information can be found on NEIUport on the MyNEIU tab or as follows:
http://homepages.neiu.edu/~neiutemp/Emergency_Procedures/MainCampus/.

ADDITIONAL ELECTIVE INFORMATION

Course Communication

All pertinent class communications between the instructor and students is conducted exclusively through NEIU e-mail. Thus it is the responsibility of students to check their NEIU e-mail account for all significant information and updates on class cancellations in the event of threatening weather conditions.

Incompletes

An Incomplete ("I") grade is temporary and exceptional, and can be given only to students whose completed coursework has been qualitatively satisfactory but who have been unable to complete all course requirements because of illness or other circumstances beyond their control. An "I" grade is not to be awarded in place of a failing grade or when the student is expected to attend additional class meetings or to re-register to complete the course requirements. Additionally, an "I" grade is not a means for the student to raise his/her grade by doing additional work.

A request for an “I” grade must be made by the student to the faculty member before the last official day of the semester or term. The faculty member retains the right to make the final decision on granting a student's request for an “I” providing the student meets the provisions above, even though the student may meet the eligibility requirements for this grade. Students have up to one semester, excluding summer, to complete the work.

It is the responsibility of the student to complete and submit the remaining coursework before the assigned deadline. The faculty member will submit a grade change converting the “I” to a letter grade by or before the last day of the semester in which the outstanding coursework is to be completed. If the student does not meet the deadline, the “I” will be converted automatically to a final grade of an “F.” Since the “I” grade is temporary, faculty may not issue a terminal “I” grade.

Late Work

Late work is strongly discouraged. Turning in work late can impair your chances of success in the course. This late work policy applies to all graded assessments (including the final examination) in the course, with the exception of the discussion threads. Because class discussions require us all to participate during the week when they are active, no make-up or late credit will be allowed for discussion participation. I understand that unexpected things can come up, so the late-work policy for our course is outlined below.

Serious Emergencies: For serious emergencies, your instructor will decide whether your late work may be accepted for full or reduced credit. Serious emergencies include things like serious illness, accidents, natural disasters, and university server outages. E-mail your instructor the information about your emergency and request approval to make up the assignment, lab, quiz, or exam. If you receive approval, make up the work according to the plan set by you and your instructor.

All Other Unexcused Late Work: Unexcused late work includes course work that is turned in late because of things like job-related, technical, or other personal issues. Your instructor will decide whether your late work may be accepted. Your instructor will impose a per diem late penalty of 10% of the assignment points per week. To request an extension on an assignment, please request approval BEFORE the final deadline.

Submission of Assignments: Students are expected to complete all assignments. Failure to submit any assignment will result in a zero on that assignment and an additional deduction of 10 points per missing assignment. If homework solutions are shared with the class, your instructor reserves the right to decline to accept late work after the sharing of the solutions, or to require that an alternative assignment be completed, if one is available. Only one unexcused, non-emergency late submission will be allowed per student per course.