

**THE UNIVERSITY OF TEXAS AT EL PASO**  
Accounting and Information Systems Department

**Michael L. Gonzales, PhD**

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**CIS 4365 Database Management, Spring 2022**

**Class Hours:** 7:30 am – 8:50am, MW, BUSN 311

**Office Hours:** TTR, 3:00 to 5:00pm, by appointment only

**Textbook:** All reading will be available online or provided by instructor

**Course Reading:** There are several papers/articles for required reading. Papers will be assigned during class by Dr. Gonzales.

**Course Software:** Students will be using MSSQL and other related databases

**Course Description:** The course introduces students to issues related to database and database management systems (DBMS). Students gain technical backgrounds in planning, analysis, logical design, physical design, implementation, and maintenance of a database. Students are provided hands-on training in data base design, development, and implementation using a relational DBMS software. Emphasis is placed on the problems and issues of managing in a data base environment.

**Course Objectives and Goals:** There are two objectives of this course: 1) Familiarize the student with basic relational database management concepts in a hands-on learning environment, and 2) Expose students to modern database concepts and technologies and the issues driving support for non-relational databases.

**Grade Components:**

	Points
Practical & Lecture Exams (3)	300
Final Exam	100
<b>Total Points</b>	<b>400</b>

Final Grade	Range
A	90% and up
B	80-89%
C	70-79%
D	60-69%
F	Below 60%

**Exams:** All students are required to take the exams at the scheduled time which is to be announced in class. Makeup will only be given to students who have to miss due to “excused absences due to university-recognized activities” or under extreme circumstances. These students are required to send written notice to the instructor about the university-recognized activities ahead of time. See student handbook for a description of these activities.

**Final Exam:** Any student with a ‘B’ or better after the 3<sup>rd</sup> exam will not have to take the final.

**Practical Exams:** Professor will assign exam and project scores based on the following:

- Code execution without errors
- Program accomplishing objectives of assignment

**Course Outline**  
(Professor reserves the right to change the course syllabus.<sup>1</sup>)

<b>Dates</b>	<b>Topic</b>	<b>Concepts</b>
01/19	-Course Review & Contoso Loading	Setup Environment
01/24 01/26	-OLTP vs. OLAP	EF Codd/Normalization
01/31 02/02	-SELECT, INSERT, UPDATE, DELETE	SQL
02/07 02/09	-SELECT, INSERT, UPDATE, DELETE	SQL
02/14 02/16	-CREATE, DROP, ALTER	DML
02/21 02/23	-Review for Exam #1 -Exam #1	Exam #1
02/28 03/02	-Statistical Aggregation -Join and Group By	SQL
03/07 03/09	-Statistical Aggregation -Join and Group By	SQL
03/14 03/16	SPRING BREAK	
03/21 03/23	- Review for Exam #2 - Exam #2	Exam #2
03/28 03/30	-Relational vs Non-Relational	Database Technologies
04/01	<b>LAST DAY TO DROP</b>	
04/04 04/06	- Object Oriented Database	Non-Relational
04/11 04/13	- Object Oriented Database	Non-Relational
04/18 04/20	- Design & Management of Hybrid Databases	Database Architectures
04/25 04/27	- Review for Exam #3 - Exam #3	Exam #3
05/02 05/04	-Course Review	
<b>MAY</b> <b>05/09</b>	<b>Comprehensive Final Exam</b>	<b>Final</b>

**Students with disabilities:** If you feel you may have a disability that requires accommodations, contact the Disabled Student Services Office at 747-5148, go to the Union Bldg. East, room 106, or e-mail [dss@utep.edu](mailto:dss@utep.edu).

**Academic integrity:** The University of Texas at El Paso prides itself on its standards of academic excellence. In all matters of intellectual pursuit, UTEP faculty and students must strive to achieve excellence based on the quality of work produced by the individual. In the classroom and in all other academic activities, students are expected to uphold the highest standards of academic integrity. Any form of scholastic dishonesty is an affront to the pursuit of knowledge and jeopardizes the quality of the degree awarded to all graduates of UTEP. It is imperative, therefore, that the members of this academic community understand the regulations pertaining to academic integrity and that all faculty insist on adherence to these standards.

Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. Proven violations of the detailed regulations, as printed

<sup>1</sup> Some classes may be conducted remotely.

in the Handbook of Operating Procedures (HOP), and available in the Office of the Dean of Students, and the homepage of The Dean of Students (DOS) at [www.utep.edu](http://www.utep.edu), may result in sanctions ranging from disciplinary probation, to failing grade on the work in question, to a failing grade in the course, to suspension or dismissal, among others.