

AMBERTON UNIVERSITY
e-COURSE SYLLABUS

MGT6790.E1 Database Management
Fall 2026

PROFESSOR INFORMATION:

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COURSE INFORMATION:

MGT6790.E1 Database Management

Level: Graduate

Beginning Date of Session: Saturday, September 12, 2026

Ending Date of Session: Thursday, November 19, 2026

Student access available to the Student Portal: Saturday, September 12, 2026

Students enrolled in distance learning courses are not assessed any additional fees for security or identity verification.

COURSE PREREQUISITES:

None

TEXTBOOK(S) AND REQUIRED MATERIALS:

Title: Database Systems: Design, Implementation and Management w/MindTap Access
Author: Carlos Coronel; Steven Morris
Publisher: Cengage Learning
Year Published: 2027
Edition: 15th
ISBN: 13: 9798214410326
Price: Available at <http://amberton.ecampus.com>

Amberton University has an agreement with eCampus.com to provide a full-service online bookstore to students. The Amberton University Virtual Bookstore is accessible through the University's website, www.Amberton.edu. There is also a bookstore link in the Student Portal.

The AU Virtual Bookstore provides an easy to use interface, online buyback of books, and same day shipment of most titles with an average delivery time of 2-3 days depending on the student's location. Textbook options include new, used, rental, and electronic media as available.

Since no books are sold on campus, students should plan accordingly and purchase their books in advance of the first day of class, allowing time for shipping. Be certain you are enrolled in the course before purchasing your book(s). All textbook information (Title, Author, ISBN, etc.) is available in the course syllabi so students can shop competitively. Most textbooks can be purchased from many different textbook vendors. Some textbooks may only be available on the University's Virtual Bookstore. Students should be careful to obtain the exact resource(s) required for the course.

APA Requirement

APA (American Psychological Association) style is most commonly used to cite sources within the social sciences. This resource, revised according to the 7th edition, offers examples for the general format of APA research papers, in-text citations, endnotes/footnotes, and the reference page. For more information, please consult the Publication Manual of the American Psychological Association, (7th ed.). All coursework at Amberton University will comply with the standards contained in the APA Publication Manual.

COURSE COMPETENCIES:

This course introduces essential principles of applied database management to support organizational and administrative functions. Key topics include database management systems (DBMS) concepts, data models, data manipulation, and core aspects of DBMS security, integrity, recovery, and concurrency. Emphasis is placed on effective database design principles and practices. These concepts are reinforced through hands-on projects focused on building, populating, and querying databases.

UPON COMPLETION OF THE COURSE, THE STUDENT WILL BE COMPETENT IN:

1. Analyzing data concepts within a database management system (DBMS) environment.
2. Comparing and contrasting various types of database management systems (DBMS).
3. Examining all stages of the database development process, from planning through deployment.
4. Explaining the unique requirements and considerations of different database environments, including security, scalability, and performance.
5. Applying modern database management principles to develop and implement a database system using appropriate technology.
6. Demonstrating competence in advanced database functions by implementing key database management principles to solve real-world problems.
7. Illustrating the application of key database concepts within different database systems and environments.
8. Comparing and contrasting popular database management systems, focusing on their use cases and distinctive functionalities.
9. Exploring the connection between databases and data analytics, including how database structures support data-driven insights.
10. Evaluating Artificial Intelligence (AI) tools and techniques for enhancing data processing, optimization, and decision-making capabilities within database management systems.
11. Analyzing normalization techniques to optimize database design, ensuring efficiency, data integrity, and minimal redundancy.
12. Refining SQL queries to extract, update, and manage data efficiently while ensuring performance optimization.
13. Examining methods for connecting databases to front-end applications, APIs, and cloud-based solutions to support modern business needs.
14. Analyzing key legal, ethical, and regulatory considerations related to data privacy, protection, and compliance in database environments.
15. Assessing strategies for ensuring data availability, backup, disaster recovery, and business continuity planning in database management.

ACQUIRED SKILLS:

1. SQL
2. MySQL
3. Microsoft Access
4. MongoDB
5. Tableau Public

COURSE POLICIES:

All coursework must be completed and submitted by the assigned due dates for each unit. For discussion activities, your initial post is due by Thursday at 11:55 PM (CDT) for the assigned week. You must also reply to at least one classmate by the following Monday at 11:55 PM (CDT). All other assignments are due by 11:55 PM (CDT) on their specified due dates, except during the final week of the course. During that week, all assignments are due by Tuesday, 11/17/2026 at 11:55 PM (CDT). To ensure fairness and maintain a high standard of feedback for all students, late assignments will not be accepted unless there is a documented emergency. Additionally, extra credit will not be offered in this course. Please plan ahead to stay on track and meet all deadlines.)

Student's Responsibilities

This syllabus contains information, policies, and procedures for a specific course. By enrolling, the student agrees to read, understand, and abide by the policies, rules, regulations, and ethical standards of Amberton University as contained in the current university catalog and schedule of classes.

Attendance Policy:

Regular and punctual class attendance and engagement is expected at Amberton University. In case of an absence, it is the student's responsibility to contact the professor as soon as possible. If a student intends on withdrawing from a course, it is the student's responsibility to follow the university's policy on formally withdrawing from a course. **Ceasing to attend classes does not constitute an official withdrawal.**

Attendance in a distance learning course is defined as active participation in the weekly online class sessions. "Active participation" can be defined as: submitting an academic assignment, taking an exam, engaging in an interactive tutorial, participating in an online discussion forum (or chat session), or initiating (or responding to) a communication with a faculty member about an academic assignment or the subject matter of the course. A student not meeting these requirements may be assigned a grade of an "F" or withdrawn at the discretion of Amberton University.

Plagiarism Policy

Plagiarism is the presentation of someone else's work as though it were your own. If you use another person's words, ideas, or information; or if you use material from an outside source – whether a book, magazine, newspaper, business publication, broadcast, speech, or electronic media – you must acknowledge that source. Plagiarism is a violation of the University's code of student ethical conduct and is one that is taken seriously. Amberton University operates on an honor system; therefore, honesty and integrity are essential characteristics of all who are associated with the institution. All Amberton students are expected to abide by the honor system and maintain academic integrity in all their work. Amberton University and its instructors monitor student work for plagiarism and reserve the right to submit such work to technology-based plagiarism detection services and applications at any time.

Self-plagiarism means reusing work that you have already published or submitted for a class. It can involve:

- Resubmitting an entire paper
- Copying or paraphrasing passages from your previous work

Self-plagiarism misleads your readers by presenting previous work as completely new and original. Students may not submit the same paper in substance in two or more classes without prior written permission of the instructors involved.

Amberton University students who use Artificial Intelligence (AI) generated content must adhere to the following policies:

Originality: Students must avoid presenting AI generated content as their own original work. It is essential to acknowledge the involvement of AI in the content creation process in order to maintain academic and ethical standards.

Paraphrasing: When using AI generated content, students must rephrase and/or modify the generated text. Paraphrased AI generated content should also be properly cited.

Acknowledgement: When using AI generated content in any assignment, proper credit must be given to the AI system that generated the content. <https://apastyle.apa.org/blog/how-to-cite-chatgpt>

Students agree that by taking this course, all required assignments may be subject to submission for a textual similarity review to Turnitin.com for the detection of plagiarism and self-plagiarism. All submitted papers will be included as source documents in the Turnitin.com reference database solely for the purpose of detecting plagiarism in future papers. Use of Turnitin.com service is subject to the Usage Policy posted on the Turnitin.com website.

Turnitin is a writing improvement and plagiarism prevention tool which uses special algorithms, to compare text-based student submissions to the Turnitin database and other online sources. Turnitin produces a detailed **similarity report** that can be customized and viewed by instructors and students.

Turnitin "Draft Coach" is a Google based add-on to Turnitin which supports students in developing high-quality academic writing; and serves as an integrity coach. Draft Coach helps address errors and improve the quality of student's writing by highlighting grammar mistakes, identifying incorrectly cited sources, and scanning for

similarity across several databases. By providing formative feedback on how to address citation issues, incorrect grammar, and matches with the Turnitin database, Draft Coach provides explanations to help students become more confident writers, capable of producing higher quality work both in academics and in the workplace.

Please see below for instructions.

COURSE OUTLINE AND CALENDAR:

This course will utilize the following instruments to determine student grades and proficiency of the course learning outcomes. The classroom activities will include textbook and article reading, videos, discussions, homework, and a course paper. These activities are designed to help students acquire knowledge, apply learning concepts, and master course content.

Week	Topic	Assignment	Competencies Covered	Due Date
1 9/12 – 9/21	Chapter 01: Database Systems	Discussion 1a & 1b Chapter 01 Assignment Chapter 01 Quiz	1-15	Discussion 1a & 1b: Initial Post Due Thursday, 9/17 by 11:55 PM. Reply post to one classmate Due Monday, 9/21 by 11:55 PM. Chapter 01 Assignment and Quiz Due 9/21 by 11:55 PM
2 9/21 – 9/28	Chapter 02: Data Models	Discussion 2 Chapter 02 Assignment Chapter 02 Quiz Start Data Camp Activity 1	1-15	Discussion 2: Initial Post Due Thursday, 9/24 by 11:55 PM. Reply post to one classmate Due Monday, 9/28 by 11:55 PM. Chapter 02 Assignment and Quiz Due 9/28 by 11:55 PM
3 9/28 – 10/5	Chapter 03: The Relational Database Model	Discussion 3 Chapter 03 Assignment Chapter 03 Quiz	1-15	Discussion 3: Initial Post Due Thursday, 10/1 by 11:55 PM Reply post to one classmate Due Monday, 10/5 by 11:55 PM.

		Continue working on Data Camp Activity 1		
4 10/5 – 10/12	Chapter 04: Entity Relationship (ER) Modeling	Discussion 4 Chapter 04 Assignment Chapter 04 Quiz Submit Data Camp Activity 1	1-15	Discussion 4: Initial Post Due Thursday, 10/8 by 11:55 PM Reply post to one classmate Due Monday, 10/12 by 11:55 PM Data Camp Activity 1 Due 10/12 by 11:55 PM
5 10/12 – 10/19	Chapter 06: Normalization of Database Tables Appendix M: MS Access Tutorial	Discussion 5 Chapter 06 Assignment Chapter 06 Quiz Start Research Paper Annotated Bibliography	1-15	Discussion 5: Initial Post Due Thursday, 10/15 by 11:55 PM. Reply post to one classmate Due Monday, 10/19 by 11:55 PM. Chapter 06 Assignment and Quiz Due 10/19 by 11:55 PM.
6 10/19 – 10/26	Chapter 07: Introduction to Structured Query Language (SQL	Discussion 6 Chapter 07 Assignment Chapter 07 Quiz	1-15	Discussion 6: Initial Post Due Thursday, 10/22 by 11:55 PM Reply post to one classmate Due

		Submit Research Paper Annotated Bibliography		Monday, 10/26 by 11:55 PM Chapter 07 Assignment and Quiz Due 10/26 by 11:55 PM. Research Paper Annotated Bibliography Due Monday, 10/26 by 11:55 PM
7 10/26 – 11/2	Chapter 09: Database Design Appendix A: Designing Databases with Lucidchart: A Tutorial	Discussion 7 Chapter 09 Assignment Chapter 09 Quiz Start Data Camp Activity 2 Continue working on Research Paper	1-15	Discussion 7: Initial Post Due Thursday, 10/29 by 11:55 PM Reply post to one classmate Due Monday, 11/2 by 11:55 PM Chapter 09 Assignment and Quiz Due 11/2 by 11:55 PM.
8 11/2 – 11/9	Chapter 14: Big Data and NoSQL Appendix P: Working with MongoDB	Discussion 8 Chapter 14 Assignment Chapter 14 Quiz	1-15	Discussion 8: Initial Post Due Thursday, 11/5 by 11:55 PM Reply post to one classmate Due

	Tableau Public	Continue working on Research Paper		Monday, 11/9 by 11:55 PM
		Submit Data Camp Activity 2		Chapter 14 Assignment and Quiz Due 11/9 by 11:55 PM.
				Submit Data Camp Activity 2 Due 11/9 by 11:55 PM
9 11/9 – 11/16	Chapter 16: Database Administration and Security	Discussion 9	1-15	Discussion 9: Initial Post Due Thursday, 11/12 by 11:55 PM
	Appendix F: Client/Server Systems	Chapter 16 Assignment		Reply post to one classmate Due Monday, 11/16 by 11:55 PM
	Appendix N : Creating a New Database using Oracle	Chapter 16 Quiz		Chapter 16 Assignment and Quiz Due 11/16 by 11:55 PM.
	Appendix O: Data Warehouse Implementation Factors	Continue working on Research Paper		
10 11/16 – 11/20	Course Wrap-Up	Discussion 10	1-15	Discussion 10: Initial Post Due Tuesday, 11/17 by 11:55 PM
		Research Paper Submission		Reply posts are optional
				Research Paper Due Tuesday, 11/17 by 11:55 PM.

GRADING CRITERIA:

There are five types of learning activities in this class:

Discussion – This course will utilize weekly discussions to enhance students' research and communication skills as well as demonstrate an understanding and application of concepts. See the discussion activities for instructions, requirements, and the evaluation rubric.

Assignments – There are nine homework assignments. Problems may be a combination of short answers, and computational activities. Homework assignments are designed to reinforce course materials and ensure understanding and application of concepts.

Quizzes (Practice) - There are nine chapter quizzes. Questions may be a combination of multiple choice, true/false, or short answers. Quizzes are designed to reinforce course materials and ensure understanding of concepts.

Data Camp Activities – There are two Data Camp activities designed to enhance an understanding of database management. Data Camp offers interactive, hands-on learning experiences through guided exercises and real-time feedback. These activities help develop practical skills while reinforcing key course concepts. A certificate of completion will be submitted for grading.

Course Paper – Students will be required to research and develop a written paper on an approved course topic. The paper will be written in APA 7e format. The content of the paper will not exceed five papers. A cover page, abstract and reference page(s) are required. These are not included in the content page count. NOTE: No formal data analysis is required for the course paper. See the Moodle Course Paper Module for more information.

Grading Criteria

Assignment Category	Assignment Details	Assignment Points	Percentage
Discussions	(10 @ 25 pts.)	250	25%
Assignments	(9 @ 40 pts.)	360	36%
Data Camp Activities	(2 @ 50 pts.)	100	10%
Annotated Bibliography	90 pts.	90	9%
Research Paper	200 pts.	200	20%

Graduate	
92 – 100	A
82 – 91	B
72 – 81	C
62 – 71	D
Below 62	F

GRADE NOTIFICATION AND INSTRUCTOR FEEDBACK:

Students should review instructor feedback provided through Moodle or Amberton CampusWeb Portal. Final grades are processed approximately one week after the session and may be viewed through the student portal. Grades will not be released by phone or through unsecured channels. University instructors will not leave a message with comments or grades in any type of media that is not secure.

For questions regarding grades after the semester has ended, students should use their university email account and contact the instructor at the faculty email address as provided above in Professor Information area.

INCOMPLETE GRADES

An "I" (Incomplete) grade is granted only at the professor's discretion for emergencies or illness.

Students have 30 days from the end of the session to complete the course requirements. If the conditions are not met within this 30-day window, the "I" automatically converts to an "F".

HOW TO WITHDRAW FROM A COURSE

To be official, the class withdrawal must be in writing and signed by the student requesting the withdrawal; no withdrawal is accepted verbally. Please review the "Schedule of Classes" (online or in-print) for procedures for class changes or withdrawals and the refund policy and schedule.

COURSE DELIVERY METHODOLOGY:

This course is delivered through Moodle. Students are expected to have reliable internet access, basic computer skills, the ability to upload/download files, use Amberton email, and submit assignments in the required format. Students needing assistance should use the Amberton SSO support/ticket process.

HOW TO ACCESS YOUR COURSE:**SINGLE SIGN-ON (SSO) INSTRUCTIONS FOR AMBERTON UNIVERSITY**

Students should access Amberton systems through the Single Sign-On portal at <https://sso.amberton.edu>. After logging in, students can access Moodle, Amberton email, CampusWeb, and other assigned applications. Students who need help accessing SSO should submit a support request through the SSO support option or contact support@amberton.edu.

MOODLE TUTORIAL:

Upon successful log in and access to the Moodle learning platform, there is a Student Moodle Tutorial course available, to learn about the basics of Moodle. Simply click on the link for the Student Moodle Tutorial and read through the various learning topics: Navigating; Communicating; Assignments & Exams; Grades; and Student Resources.

COURSE COMMUNICATIONS:

Students will communicate with faculty through the Moodle Learning Platform or the Amberton University email system.

EMAIL COMMUNICATION

Students are expected to use their Amberton email account and Moodle for course communications. Students must use their official university email account for all university related communication and should check their Amberton emails regularly for course and university notices.

Upon completion of a session, all communication and course specific information is removed from the Moodle system. If a student needs to maintain a record of communications or assignments, the student is strongly encouraged to print out or download these items to a disk for their own records.

FORMAT AND SUBMISSION OF ASSIGNMENTS:

Assignments must be submitted through the appropriate Moodle assignment link unless otherwise directed by the instructor. Students are responsible for submitting files in the format required by the instructor.

INSTRUCTOR/COURSE EVALUATION:

Students will have the opportunity to complete an anonymous course and instructor evaluation near the end of the session. Instructions and dates will be provided through Moodle and/or Amberton email.

RESEARCH RESOURCES:

The Amberton Library provides access to full-text articles, peer-reviewed databases, and research tools, with options like Interlibrary Loan (ILL) and TexShare for items outside its collection. For research assistance, students can connect with library staff during operating hours via email (Library@amberton.edu), phone (972-279-6511 ext. 185), "How-to" videos, live online chat, or in person at the Garland campus. The online library is available through Single Sign On (SSO).

MICROSOFT OFFICE 365 EDUCATION:

Amberton University students may access Microsoft 365 Education resources as provided by the university.

GOOGLE WORKSPACE FOR EDUCATION:

Amberton students are assigned a Google Workspace for Education account, including Amberton Gmail, Google Drive, Google Docs, Sheets, and Slides. Students should use their Amberton Google account for course-related work when required.