

Texas A&M University Central Texas
CIS 5316.110
Applied Database Management

Instructor: Dr. Anitha Chennamaneni

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Preferred Email: Course Canvas Site, Inbox tool.

Alternate (if Canvas is down): anitha.chennamaneni@tamuct.edu

Office Hours: **Monday** 10 am – 2 pm (Room FH 323I)

Tuesday Online (Virtual) via Course Canvas Site 10 am – 2 pm

Wednesday 10 am – 5 pm (Room FH 323I)

Thursday 10 am – 2 pm (Room FH 323I)

Saturday and other times by appointment only

Mode of instruction and course access: This is a blended / hybrid course consisting of synchronous and asynchronous instructional methods. The course uses TAMUCT Canvas Learning Management System (<https://tamuct.instructure.com/>). The course syllabus, schedule, supplemental readings, class announcements, power point slides, learning modules and other course related documents will be posted on canvas. Each student is responsible for the posted material, and should check canvas at least weekly for updates. The course outline in this syllabus shows the basic schedule for the semester. New weekly assignment instructions will be posted EACH MONDAY morning throughout the semester, and assignments, discussions and quizzes, will have an associated Sunday midnight deadline.

Student-instructor interaction: Please send all course related email correspondence through Canvas Inbox Tool. Please use TAMUCT email only when Canvas is not available. I check email several times a day during the week and at least once during the weekends. I will respond within 24 hours and within 48 hours on Saturday through Sunday. Please do not hesitate to stop by my office during the scheduled office hours or contact me via phone / Canvas Conversations Tool or *TAMUCT email*, if there are any personal problems or challenges that are hindering your regular progress in the course.

911 Cellular:

Emergency Warning System for Texas A&M University – Central Texas

911Cellular is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in 911 Cellular through their myCT email account.

Connect at [911Cellular](https://portal.publicsafetycloud.net/Texas-AM-Central/alert-management) [https://portal.publicsafetycloud.net/Texas-AM-Central/alert-management] to change where you receive your alerts or to opt out. By staying enrolled in

911Cellular, university officials can quickly pass on safety-related information, regardless of your location.

COURSE INFORMATION

Course Overview and description:

This course examines the objectives and methodologies of database management. Topics include data models, database design, data dictionaries, fourth generation programming languages, data integrity, security, and privacy. Students use a commercial database. Data mining and data warehousing applications are explored. Numerous hands on problems/projects are assigned throughout the course.

Course Objectives:

Successful completion of this course should enable the student to

- Apply methodologies such as entity relationship diagrams and normalization in the implementation and modification of database
- Use SQL statements in a procedural programming language to manipulate database data
- Design user interfaces utilizing visual/object oriented tools
- Assess integrity, security, and privacy issues: review SQL standard and implementation-specific commands
- Analyze factors that affect the performance of a database system

Required Reading and Textbook(s):

Textbook: *Database Systems: Design, Implementation, and Management*, Coronel and Morris, 12th Edition Course Technology, ISBN-13: 9781305627482

Note: A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Optional / Reference Text: American Psychological Association. (2009). Publication Manual of American Psychological Association (6th ed.). Washington, D.C

Purdue Online Writing Lab for APA: <https://owl.english.purdue.edu/owl/section/2/10/>

- **Supplementary Material:** The course textbook will be supplemented with other materials including handouts, oral presentations, industry articles, videos, research paper readings, case studies, power point presentations etc.
- **On-Line References TBA**

- Students preferring to use their own computers are required to have products, data encodings, file names, system structure, and products equal to those provided in the computer lab and the server used in class.
- Current publications - The campus library contains numerous books and periodicals relating to Computer Science. The student should take advantage of this resource by visiting the library.

COURSE REQUIREMENTS

- **Reading Assignments:** All assigned chapters will be used as basis for class /canvas discussions. Students are expected to study the assigned readings before each class session.
- **Class Participation / Canvas Discussions:** Students are required to participate in the class/canvas discussions throughout the semester. There will be three discussions, each worth 25 points. The maximum total for canvas discussions is 75 points. Students are expected to post thoughtful and comprehensive responses to the discussion questions as well as respond on a timely basis to a minimum of two classmates' postings. Failure to do so will result in point loss. Post your initial response to the discussion topic prior to 11.59 pm Wednesday and respond to other student's postings later in the week. Please do not be late in your postings as other students will be waiting on your post to respond to later in the week. Discussion topics, due dates and the grading rubric specific to discussion evaluations are available in canvas and should be used as a guide when participating in discussions. It is each student's responsibility to accumulate notes from assigned readings, supporting videos, and other sources and reference them in the postings to support one's own arguments, add an insight to classmate's postings and/or challenge classmates' postings. Sources when referenced must be cited in the postings. Follow-up posts need to be meaningful and should promote in depth discussions on a topic at higher level of thinking. A mere cursory response such as "I agree" or "I disagree" or a "good post" without any substantive content to backup would result in point loss. In all postings, students are expected to observe proper rules of netiquette in both oral and written communications and conduct in a professional manner. Late submissions are not allowed for discussion forums.
- **Examinations** - There will be two exams. Each will be worth 200 points. Makeup exams will be given ONLY when arrangements have been made PRIOR to the class meeting.
- **Homework Assignments** - There will be 3 assignments. Each assignment will be worth 75 points. All assignments are submitted through the Canvas course web site. All assignment submissions require a zipped copy of your assignment that allows me to unzip, open, and view the contents or other documents associated with the assignment. Please include your name and assignment identification in the zip file name (YourName_ChX.zip). You should also note that archives such as .rar, .gz, .tar, .7z, (among others) are not zip archives. Assignment submissions failing to provide the specified naming, identification, and format will not be accepted for grading. All

assignments are due on the specified due date and time. Assignments turned in after due dates are considered late. 5 points will be deducted for each day the assignment is late. Special circumstances need to be discussed with the instructor ahead of time when possible

- **Semester Long Project:** There will be one Team Project where student teams will work as a team to design and build a large complex database. The submitted project should include a working database and all of the artifacts of the design process (requirements documents, data flow diagrams, Data Dictionary, ER diagrams, SQL statements to build and populate the database, meeting minutes, etc). Please see separate write – up in the canvas for the project details. For the team project, students can self-select into teams of 2 to 3 members. Students must choose their teammates before the end of the second week. Projects turned in after due date are considered *late*. 5 points will be deducted for each day the project is late. Special circumstances need to be discussed with the instructor ahead of time when possible.
- **Team Projects:** Each team will select a leader, and the team will have meetings outside class time either online or face to face. I expect each team member to fully participate on team projects. All team members will receive the same grade for the team projects. However, I reserve the right to make exceptions to that practice as circumstances such as performance imbalance or communication issues warrant. Poor individual contributions to the team project as noted by your team members will result in a poorer individual grade on the team project.
- **Research Paper:** Each student is required to write a major paper on a topic from this course that is of interest to you. Topics must be approved by the professor by the end of third week. This paper must be 10 to 12 pages in length (type written and double-spaced, 12 point font with 1 inch margins) excluding bibliography, table of contents, graphics, tabular or illustrative material. References should include current sources and must conform to APA or Chicago style. The paper is expected to meet graduate-level standards and be suitable for publication in a professional journal. You should research at least 15 external references such as academic journal /conference papers, trade journals, short videos and relevant websites for your paper. At least 10 of these references must be from peer reviewed journals or conferences only. Use of Wikipedia or the class text as a reference will cause a serious loss of points. References must include the published journal name and information, NOT a URL where paper was found. Research paper is worth 100 points. A grading rubric for research paper is available in canvas and should be used as a guide when completing the paper. Late submissions are not allowed for research paper.

Grading Criteria Rubric and Conversion

Assignment	Points	Percent	My Grade
Exam 1	200 points	20%	
Exam 2	200 points	20%	
Homework Assignments	225 points	22.5%	
Team Project	200 points	20%	
Research Paper	100 points	10%	
Class Participation / Canvas Discussions	75 points	7.5%	
Total	1000 points	100%	

89.5-100%	895-1000 points	A
79.5-89.4%	795-894 points	B
69.5-79.4%	695-794 points	C
59.5-69.4%	595-694 points	D
0-59.4%	0-594 points	F

Posting of Grades:

All student grades will be posted on the Canvas Grade book and students should monitor their grading status through this tool. Grades for weekly assignments, discussions, quizzes and exams will be posted within 7 days following the due date.

COURSE OUTLINE AND CALENDAR

Complete Course Outline

The instructor reserves the right to make changes to this syllabus. Any changes that effect grades or grading will be made in writing.

On campus Meeting Dates	Content	Readings	Assignments
01/27/18	Course Welcome, Introduction, and overview of course objectives, and Expectations Chapters 1, 2, 3 & 4 from the textbook & assigned readings	Purchase and receive text Read Syllabus in-depth Read Chapters 1, 2, 3 & 4 from textbook &	Post to Introductory Meet & Greet Discussion forum Assignments available via canvas

		assigned readings	
02/10/18	Chapters 5, 6 & 7 from the textbook & assigned readings	Read Chapters , 5, 6 and 7 from textbook & assigned readings	Assignments available via canvas
03/03/18	Chapters 8, 9 & 10 from the textbook & other assigned readings	Read Chapters 8, 9 and 10 from textbook & assigned readings	Midterm Exam Assignments available via canvas
03/24/18	Chapters 11, 12, 13 from the textbook & other assigned readings	Read Chapters 11, 12, and 13 from Textbook & assigned readings	Assignments available via Canvas
04/07/18	Chapters 14, 15 & 16 from the textbook & other assigned readings	Read Chapters 14, 15 and 16 from Textbook & assigned readings	Assignments available via Canvas Research Paper & Presentations Due
04/28/18	Assigned readings posted in Canvas Final Exam & Final Project	Assigned readings posted in Canvas	Paper Presentations Cont. Final Exam, Term Project

Important University Dates:

January 2018

January 2, (Tuesday) Winter Break Ends

January 2, (Tuesday) Priority Deadline for Admissions applications
January 5, (Friday) VA Certification Request Priority Deadline
January 11, (Thursday) Convocation
January 12, (Friday) Tuition and Fee payment deadline (16 week & 1st 8 week)
January 15, (Monday) Martin L. King Jr. Day
January 16, (Tuesday) ADD/DROP/LATE REGISTRATION BEGINS (\$25 fee assessed for late registrants) (16 week & 1st 8 week)
January 16, (Tuesday) Classes Begins
January 18, (Thursday) ADD/DROP/LATE REGISTRATION ENDS (16 week & 1st 8 week)
January 23, (Tuesday) Last day to drop 1st 8-week classes with no record
January 31, (Wednesday) Last day to drop 16 week classes with no record

February 2018

February 2, (Friday) Priority Deadline to Submit Graduation Application
February 9, (Friday) Last day to drop a 1st 8-week class with a Q or withdraw with a W
February 15, (Thursday) Last day to apply for Clinical Teaching
February 23, (Friday) Student End of Course Survey Opens (1st 8-Week Classes)

March 2018

March 1, (Thursday) Deadline to submit application to Teacher Education Program
March 2, (Thursday) Deadline to Submit Graduation Application for Ceremony Participation
March 9, (Friday) 1st 8 week classes end
March 9, (Friday) Deadline for Admissions applications
March 11, (Sunday) Student End of Course Survey Closes (1st 8-Week Classes)
March 12, (Monday) Spring Break Begins
March 12, (Monday) 1st 8-week grades from faculty due by 3pm
March 15, (Thursday) Tuition and Fee Payment Deadline (2nd 8-week classes)
March 16, (Friday) Spring Break Ends
March 19, (Monday) 2nd 8 week begins
March 19, (Monday) Summer Advising Starts
March 19, (Monday) Class Schedule Published
March 19, (Monday) ADD/DROP/LATE REGISTRATION BEGINS (\$25 fee assessed for late registrants) (2nd 8-week classes)
March 21, (Wednesday) ADD/DROP/LATE REGISTRATION ENDS (2nd 8-week classes)
March 27, (Tuesday) Last day to drop 2nd 8-week classes with no record
March 30, (Friday) Last day to drop a 16-week course with a Q or withdraw with a W

April 2018

April 1, (Sunday) GRE/GMAT scores due to Office of Graduate Studies
April 2, (Monday) Scholarship Deadline
April 2, (Monday) Registration begins
April 5, (Thursday) Priority Deadline for International Student Admission Applications
April 13, (Friday) Last day to drop a 2nd 8-week class with a Q or withdraw with a W*
April 13, (Friday) Deadline for submission of final committee-edited theses with committee approval signatures to Office of Graduate Studies
April 27, (Friday) Student End of Course Survey Opens (16 Week and 2nd 8-Week Classes)

May 2018

May 7-11, Finals Week

May 11, (Friday) Last day to file for Degree Conferral (Registrar's Office)(\$20 Late Application Fee applies)

May 11, (Friday) Spring Term Ends

May 11, (Friday) Last day to withdraw from the university (16 week and 2nd 8 week classes)

May 11, (Friday) Last day to apply for \$1000 Tuition Rebate for Spring graduation (5pm)

May 12, (Saturday) Commencement Ceremony Bell County Expo Center 7:00 p.m.

May 13, (Sunday) Student End of Course Survey Closes (16 Week and 2nd 8-Week Classes)

May 14, (Monday) Minimester begins

May 15, (Tuesday) Last Day to clear Thesis Office

May 5, (Tuesday) Final grades due from faculty by 3pm (16 week & 2nd 8 week)

May 21, (Monday) Priority Deadline for Admissions applications

May 25, (Friday) VA Certification Request Priority Deadline

May 28, (Monday) Memorial Day

TECHNOLOGY REQUIREMENTS AND SUPPORT

Technology Requirements.

This course will use the A&M-Central Texas Instructure Canvas learning management system.

Logon to A&M-Central Texas Canvas [<https://tamuct.instructure.com>].

Username: Your MyCT username (xx123 or everything before the "@" in your MyCT e-mail address) Password: Your MyCT password

Canvas Support

Use the Canvas Help link, located at the bottom of the left-hand menu, for issues with Canvas. You can select "Chat with Canvas Support," submit a support request through "Report a Problem," or call the Canvas support line: 1-844-757-0953.

For issues related to course content and requirements, contact your instructor.

Other Technology Support

For log-in problems, students should contact Help Desk Central.

24 hours a day, 7 days a week:

Email: helpdesk@tamu.edu

Phone: (254) 519-5466

[Web Chat](http://hdc.tamu.edu): [<http://hdc.tamu.edu>]

Please let the support technician know you are an A&M-Central Texas student.

UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

Drop Policy.

If you discover that you need to drop this class, you must complete a [Drop Request Form](https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf) [https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf].

Professors cannot drop students; this is always the responsibility of the student. The Registrar's Office will provide a deadline on the Academic Calendar for which the form must be completed, signed and returned. Once you return the signed form to the Registrar's Office, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as enrolled, FOLLOW-UP with the Registrar's Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the drop deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.

Academic Integrity.

Texas A&M University -Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Academic integrity is defined as a commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student's academic performance and includes, but is not limited to, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student's work, collusion, and the abuse of resource materials. All academic misconduct concerns will be reported to the university's Office of Student Conduct. Ignorance of the university's standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

Academic Accommodations.

At Texas A&M University-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to a barrier free education. The Department of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the University's programs, services and activities. If you believe you have a disability requiring reasonable accommodations please contact the Department of Access and Inclusion at (254) 501-5831. Any information you provide is private and confidential and will be treated as such.

For more information please visit our [Access & Inclusion](https://www.tamuct.edu/student-affairs/access-inclusion.html) webpage [https://www.tamuct.edu/student-affairs/access-inclusion.html].

Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and guidance from US Department of Education's Office of Civil Rights, the Dean of Student Affairs' Office can assist students who are pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting. For more information, please visit

<https://www.tamuct.departments/index.php>. Students may also contact the institution's Title IX Coordinator. If you would like to read more about these [requirements and guidelines online](#), please visit the website [<http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf>].

Title IX of the Education Amendments Act of 1972 prohibits discrimination on the basis of sex and gender – including pregnancy, parenting, and all related conditions. A&M-Central Texas is able to provide flexible and individualized reasonable accommodation to pregnant and parenting students. All pregnant and parenting students should contact the Division of Student Affairs at 254-501-5909 to seek out assistance. Students may also contact the University's Title IX Coordinator.

Tutoring.

Tutoring is available to all A&M-Central Texas students, both on-campus and online. On-campus subjects tutored include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111.

If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, or any other question, contact Academic Support Programs at 254-519-5796, or by emailing Dr. DeEadra Albert-Green at deeadra.albertgreen@tamuct.edu.

Chat live with a tutor 24/7 for almost any subject on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log-in and receive FREE online tutoring and writing support. This tool provides tutoring in over forty subject areas. Access Tutor.com through Canvas.

University Writing Center: Located in 416 Warrior Hall, the University Writing Center (UWC) at Texas A&M University-Central Texas is a free workspace open to all TAMUCT students from 10am-5pm Monday-Thursday with satellite hours in the University Library Monday-Thursday from 6:00-9:00pm. Students may arrange a one-on-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available) or by making an appointment via [WCOnline](#) at [<https://tamuct.mywconline.com/>]. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu to schedule an online tutoring session. Tutors are prepared to help writers of all levels and abilities at any stage of the writing process.

While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By providing a practice audience for students' ideas and writing, our tutors highlight the ways in which they read and interpret students' texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Whether you need help brainstorming ideas,

organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the University Writing Center is here to help!

If you have any questions about the University Writing Center, please do not hesitate to contact Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu.

University Library.

The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 250,000 eBooks and 82,000 journals, in addition to the 72,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at A&M-Central Texas are available through our website to help students navigate these resources. On-campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.

Research assistance from a librarian is also available twenty-four hours a day through our online chat service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place on Skype or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources, and how to piece together research for written assignments.

Our 27,000-square-foot facility on the A&M-Central Texas main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our [Library website](https://tamuct.libguides.com/) [https://tamuct.libguides.com/].

A Note about Sexual Violence at A&M-Central Texas

Sexual violence is a serious safety, social justice, and public health issue. The university offers support for anyone struggling with these issues. University faculty are mandated reporters, so if someone discloses that they were sexually assaulted (or a victim of Domestic/Dating Violence or Stalking) while a student at TAMUCT, faculty members are required to inform the Title IX Office. If you want to discuss any of these issues confidentially, you can do so through Student Counseling (254-501-5955) located on the second floor of Warrior Hall (207L).

Sexual violence can occur on our campus because predators often feel emboldened, and victims often feel silenced or shamed. It is incumbent on ALL of us to find ways to actively create environments that tell predators we don't agree with their behaviors and tell survivors we will support them. Your actions matter. Don't be a bystander; be an agent of change. For additional information on campus policy and resources visit the [Title IX webpage](https://www.tamuct.edu/departments/compliance/titleix.php) [https://www.tamuct.edu/departments/compliance/titleix.php].

INSTRUCTOR POLICIES.

The instructor reserves the right to make changes to this syllabus during the course of the semester for the benefit of the students. Any changes that effect grades or grading will be made in writing.

Instructor reserves the right to supplement the material presented in the text with additional material including handouts, oral presentations, industry articles, videos, research paper readings, case studies, power point presentations etc. for the benefit of the students

All work is submitted through Canvas and due on the specified due date/time. Work turned in after due date is considered *late*. 5 points will be deducted for each day the assignment is late. Special circumstances need to be discussed with me ahead of time when possible. Missed assignments, projects, and examinations will receive a grade of zero.

Any work not submitted in the proper format is rejected and receives no credit.

Incidents of violations of academic integrity, such as plagiarism or turning in the work of others as your own work, will result in a cap on the maximum number of points that can be earned in this class. The cap will be 600 points resulting in a best case grade of "D" for the class.

At all times in the class, please observe proper rules of netiquette in your oral and written communication and conduct yourself in a professional manner

The Operation of the Online Course and Being an Online Student. Online learning requires students to be very self-disciplined and demands regular and consistent participation in the class. Please read the document posted on Canvas on what makes a successful online student. Be sure you understand and are prepared to comply with all required class assignments and deadlines. If you are not able to comply, for any reason, you must contact me immediately.

Copyright Notice.

Students should assume that all course material is copyrighted by the respective author(s). Reproduction of course material is prohibited without consent by the author and/or course instructor. Violation of copyright is against the law and Texas A&M University-Central Texas' Code of Academic Honesty. All alleged violations will be reported to the Office of Student Conduct.