

**CIS 5307-110, CRN 11366, Advanced System Analysis and Design  
Spring 2022  
Texas A&M University-Central Texas**

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**Office Hours:** TR 12:45-2 pm, 4:45-6 pm virtual (emails, calls, or video desktop sharing) (or by appointment)

**Course Dates, Modality, and Location**

Jan 18 – May 13. This is a hybrid classroom blended instructional method course. This course uses the A&M-Central Texas Canvas Learning Management System [<https://tamuct.instructure.com>]. I use Canvas to post course content, assignments, quizzes, exams, and to communicate any other announcements with the class. So please check Canvas regularly (on a daily basis) for updates.

**Student-instructor interaction:**

You may use the Canvas “inbox” feature or email me with your questions anytime as you would by attending the class and coming into my office. Your questions will be answered within 24 hours on weekdays and within 48 hours on weekends and holidays.

**Emergency Warning System for Texas A&M University-Central Texas**

**SAFEZONE.** SafeZone provides a public safety application that gives you the ability to call for help with the push of a button. It also provides Texas A&M University-Central Texas the ability to communicate emergency information quickly via push notifications, email, and text messages. All students automatically receive email and text messages via their myCT accounts.

Downloading SafeZone allows access to push notifications and enables you to connect directly for help through the app.

You can download SafeZone from the app store and use your myCT credentials to log in. If you would like more information, you can visit the [SafeZone](http://www.safefoneapp.com) website [[www.safefoneapp.com](http://www.safefoneapp.com)].

To register SafeZone on your phone, please follow these 3 easy steps:

1. Download the SafeZone App from your phone store using the link below:
  - [iPhone/iPad](https://apps.apple.com/app/safefone/id533054756): [<https://apps.apple.com/app/safefone/id533054756>]
  - [Android Phone / Tablet](https://play.google.com/store/apps/details?id=com.criticalarc.safefoneapp)  
[<https://play.google.com/store/apps/details?id=com.criticalarc.safefoneapp>]
2. Launch the app and enter your myCT email address (e.g. {name}@tamuct.edu)
3. Complete your profile and accept the terms of service

## **COURSE INFORMATION**

### **Course Overview and description:**

Examine system analysis and design processes. Students will be introduced to comparative development methodologies and modeling tools including project management and cost-benefit analysis, information systems planning and project identification and selection, requirements collection and structuring, process modeling, conceptual and logical data modeling, database design and implementation, design of the human-computer interface, system implementation, system maintenance and change management.

### **Student Learning Outcomes:**

Students will design and explain each of the different parts of a Computer Information System. Students will examine system components, identify how they are used and relate the pieces to the system whole.

Students will complete an information system project to develop system analysis & design skill.

Students will learn about the tools used to create various software design artifacts.

Students will explore and discuss current topics and developments in system analysis and design field.

Students will evaluate career options in system analysis and design field.

### **Required Reading and Textbook(s):**

System Analysis and Design: An Object Oriented Approach with UML, 5th Edition, by Dennis, Wixom, Tegarden.

ISBN-13: 978-1118804674

ISBN-10: 1118804678

Student Companion Site:

<http://bcs.wiley.com/he-bcs/Books?action=index&bcsId=9422&itemId=1118804678>

### **Supplemental Material**

Additional required readings, related videos, web resources, and optional readings will be posted on Canvas.

## **COURSE REQUIREMENTS**

### **Exams**

There will be three exams (two mid-terms and one final). Each exam is worth 100 points.

Pattern of all the exams include multiple choice and true/false questions. Make up exams are not typically given. The only acceptable excuses for missing an exam are circumstances clearly

outside your control, such as illness, death in family, etc. If you miss an exam, notify me as soon as possible. I may require documentation of the circumstances.

### **Assignments (Project Milestones)**

A semester-long project will dominate your activities during this course. You will be assigned to one of the case studies supplied by your book. The project will run very similar to an actual project and will be divided into ten milestones. The due date for completing each milestone is specified in the course schedule. Milestones must be submitted before the end of the day (11:59 PM) on the due date mentioned in the course schedule. Late submissions will not be accepted for full points and will attract 10% deduction for each day that it is late. I will be the project manager and quality assurance manager for your project in continually reviewing your progress on the assigned milestones. As quality assurance manager, I will review your delivered milestones for completeness and accuracy. Each milestone is worth 35 points.

### **Project Report**

The final project report is the integration of all previous milestones plus some additional content as specified in the project instructions posted on Canvas. Each student will need to incorporate all comments and feedback provided by the instructor (while evaluating the project milestones) throughout the semester. Guidelines for preparing a professional project report will be uploaded on Canvas. Project report is worth 150 points.

### **Quizzes**

There will be ten quizzes (multiple choice, true/false) that are designed to test the general understanding of the topics covered in the course. The quizzes can be conducted either in-class or online through Canvas. Each quiz is worth 10 points.

### **Presentation**

Each student will be required to present a topic (either individual or in a group). Students will select and explore a current topic/trend in this course. More details on the presentation topics, presentation schedule, and grading rubrics (used for assessing the presentations) will be announced in class and uploaded on Canvas. Late presentations will not be scheduled. Presentation is worth 100 points.

**Grading Criteria:**

<b>Course Requirement</b>	<b>Points</b>	<b>Weightage</b>
Two Mid-Term Exams (100 points each)	200	20%
Final Exam	100	10%
Ten Assignments (Milestones) (35 points each)	350	35%
Ten Quizzes (10 points each)	100	10%
Project Report	150	15%
Presentation	100	10%
<b>Total</b>	<b>1000</b>	<b>100%</b>

Final letter grade distribution will be as per the following scale:

<b>Letter Grade</b>	<b>Point Range</b>
<b>A</b>	900-1000
<b>B</b>	800-899
<b>C</b>	700-799
<b>D</b>	600-699
<b>F</b>	500-599

**Posting of Grades**

All students' grade will be posted on the Canvas Grade book, and students can monitor their progress on Canvas grade book. Students can expect to see their grades within two weeks of the closing of class tests, exams, and assignments. Students are expected to visit Canvas course webpage regularly to get any update regarding this course.

## COURSE OUTLINE AND CALENDAR

**Course Schedule\* \*\*** (\* This schedule provides a general plan. Deviations may be necessary)  
(\*\* Readings for each week will be posted on Canvas)

Week	Date	Readings	Due
1	1/20	Syllabus, Chapter 1 - Introduction	Quiz 1
2	1/27	Chapter 2 – Project Management	Quiz 2, Milestone 1
3	2/3	Chapter 3 – Requirements Determination	Quiz 3, Milestone 2
4	2/10	Chapter 4 - Business Process & Functional Model	Quiz 4, Milestone 3
5	2/17	Mid-Term Exam 1	Exam 1
6	2/24	Chapter 5 – Structural Modeling	Quiz 5, Milestone 4
7	3/3	Chapter 6 – Behavioral modeling	Quiz 6, Milestone 5
8	3/10	Chapter 7 – Moving on to Design	Quiz 7, Milestone 6
9	3/17	SPRING BREAK	
10	3/24	Chapter 8 – Class and Method Design	Quiz 8, Milestone 7
11	3/31	Mid-Term Exam 2	Exam 2
12	4/7	Chapter 9 – Data Management Layer Design	Quiz 9, Milestone 8
13	4/14	Chapter 10 – Human Computer Interaction Layer	Quiz 10, Milestone 9
14	4/21	Chapter 11 – Physical Architecture Layer Design	Milestone 10
15	4/28	Final Project Report, Ch 12, 13	Project Report
16	5/5	Presentation	Presentation file
17	5/12	Final Exam	Final Exam

**Important University Dates:**

January 18, 2022	Classes Begin for Spring Semester
January 20, 2022	Deadline for Add, Drop, and Late Registration for 16- and First 8-Week Classes
January 25, 2022	Deadline to Drop First 8-Week Classes with No Record
February 1, 2022	Deadline for Teacher Education Program Applications
February 2, 2022	Deadline to Drop 16-Week Classes with No Record
February 25, 2022	Deadline to Drop First 8-Week Classes with a Quit (Q) or Withdraw (W)
March 11, 2022	Classes end for 1st 8-Weeks Session
March 15, 2022	Deadline for Clinical Teaching/Practicum Applications
March 15, 2022	Deadline for Faculty Submission of First 8-Week Final Class Grades (due by 3pm)
March 14-18, 2022	Spring Break (No Classes - Administrative Offices Open)
March 21, 2022	Class Schedule Published for Summer Semester
March 21, 2022	Add, Drop, and Late Registration Begins for Second 8-Week Classes \$25 Fee assessed for late registrants
March 21, 2022	Classes Begin for Second 8-Week Session
March 23, 2022	Deadline for Add, Drop, and Late Registration for Second 8-Week Classes
March 25, 2022	Deadline for Spring Graduation Application for Ceremony Participation
March 28, 2022	Deadline to Drop Second 8-Week Classes with No Record
April 1, 2022	Deadline for GRE/GMAT Scores to Graduate School Office
April 1, 2022	Deadline for School Counselor Program Applications

April 4, 2022	Registration Opens for Summer Semester
April 8, 2022	Deadline to Drop 16-Week Classes with a Quit (Q) or Withdraw (W)
April 16, 2022	Deadline for Final Committee-Edited Theses with Committee Approval Signatures for Spring Semester to Graduate School Office
April 29, 2022	Deadline to drop Second 8-week Classes with a Quit (Q) or Withdraw (W).
May 13, 2022	Deadline to Withdraw from the University for 16- and Second 8-Week Classes
May 13, 2022	Spring Semester Ends

## TECHNOLOGY REQUIREMENTS AND SUPPORT

### Technology Requirements

This course will use the A&M-Central Texas Instructure Canvas learning management system. **We strongly recommend the latest versions of Chrome or Firefox browsers. Canvas no longer supports any version of Internet Explorer.**

Login to A&M-Central Texas Canvas [<https://tamuct.instructure.com/>] or access Canvas through the TAMUCT Online link in myCT [<https://tamuct.onecampus.com/>]. You will log in through our Microsoft portal.

Username: Your MyCT email 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.

### Online Proctored Testing

A&M-Central Texas uses Proctorio for online identity verification and proctored testing. This service is provided at no direct cost to students. If the course requires identity verification or proctored testing, the technology requirements are: Any computer meeting the minimum computing requirements, plus web camera, speaker, and microphone (or headset). Proctorio also requires the Chrome web browser with their custom plug in.

### 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](mailto: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.*

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## UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

### Drop Policy

If you discover that you need to drop this class, you must complete the [Drop Request](#) Dynamic Form through Warrior Web.

[<https://dynamicforms.ngwebsolutions.com/casAuthentication.ashx?InstID=eaed95b9-f2be-45f3-a37d-46928168bc10&targetUrl=https%3A%2F%2Fdynamicforms.ngwebsolutions.com%2FSubmit%2FForm%2FStart%2F53b8369e-0502-4f36-be43-f02a4202f612>].

Faculty 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. Once you submit the completed 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. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. All academic misconduct concerns will be referred to the Office of Student Conduct. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

For more [information regarding the Student Conduct process](#),  
[<https://www.tamuct.edu/student-affairs/student-conduct.html>].

If you know of potential honor violations by other students, you may [submit a report](#),  
[[https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout\\_id=0](https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=0)].

### 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 Warrior Center for Student Success, Equity 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 Office of Access and Inclusion, WH-212; or call (254) 501-5836. Any information you provide is private and confidential and will be treated as such.



For more information, please visit our [Access & Inclusion](https://tamuct.instructure.com/courses/717) Canvas page (log-in required) [https://tamuct.instructure.com/courses/717]

### **Important information for Pregnant and/or Parenting Students**

Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and related 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. Students should seek out assistance as early in the pregnancy as possible. For more information, please visit [Student Affairs](https://www.tamuct.edu/student-affairs/pregnant-and-parenting-students.html) [https://www.tamuct.edu/student-affairs/pregnant-and-parenting-students.html]. Students may also contact the institution's Title IX Coordinator. If you would like to read more about these [requirements and guidelines](http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf) 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 Associate Dean in 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 virtually and in-person. Student success coaching is available online upon request.

If you have a question, are interested in becoming a tutor, or in need of success coaching contact the Warrior Center for Student Success, Equity and Inclusion at (254) 501-5836, visit the Warrior Center at 212 Warrior Hall, or by emailing [WarriorCenter@tamuct.edu](mailto:WarriorCenter@tamuct.edu).

To schedule tutoring sessions and view tutor availability, please visit [Tutor Matching Services](https://tutormatchingservice.com/TAMUCT) [https://tutormatchingservice.com/TAMUCT] or visit the Tutoring Center in 111 Warrior Hall.

Chat live with a remote tutor 24/7 for almost any subject from on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log in and receive online tutoring support at no additional cost. This tool provides tutoring in over 40 subject areas except writing support. Access Tutor.com through Canvas.

### **University Writing Center**

University Writing Center: Located in Warrior Hall 416, the University Writing Center (UWC) at Texas A&M University—Central Texas (A&M—Central Texas) is a free service open to all A&M—Central Texas students. For the Spring 2022 semester, the hours of operation are from 10:00 a.m.-5:00 p.m. Monday thru Thursday in Warrior Hall 416 (with online tutoring available every hour as well) with satellite hours available online only Monday thru Thursday from 6:00-9:00 p.m. and Saturday 12:00-3:00 p.m.

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 UWC is here to help!

Students may arrange a one-to-one session with a trained and experienced writing tutor by making an appointment via [WOnline](https://tamuct.mywconline.com/) [https://tamuct.mywconline.com/]. In addition, you can email Dr. Bruce Bowles Jr. at [bruce.bowles@tamuct.edu](mailto:bruce.bowles@tamuct.edu) if you have any questions about the UWC, need any assistance with scheduling, or would like to schedule a recurring appointment with your favorite tutor by making an appointment via [WOnline](https://tamuct.mywconline.com/) [https://tamuct.mywconline.com/]. In addition, you can email Dr. Bruce Bowles Jr. at [bruce.bowles@tamuct.edu](mailto:bruce.bowles@tamuct.edu) if you have any questions about the UWC, need any assistance with scheduling, or would like to schedule a recurring appointment with your favorite tutor.

### **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 400,000 eBooks and 82,000 journals, in addition to the 96,000 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 24 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 virtually through WebEx, Microsoft Teams or in-person at the library. [Schedule an appointment here](https://tamuct.libcal.com/appointments/?g=6956) [https://tamuct.libcal.com/appointments/?g=6956]. 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](http://tamuct.libguides.com/index) [http://tamuct.libguides.com/index].

## **OPTIONAL POLICY STATEMENTS**

### **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 Wellness and 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/compliance/titleix.html) [https://www.tamuct.edu/compliance/titleix.html].

### **Behavioral Intervention**

Texas A&M University-Central Texas cares about the safety, health, and well-being of its students, faculty, staff, and community. If you are aware of individuals for whom you have a concern, please make a referral to the Behavioral Intervention Team. Referring your concern shows you care. You can complete the [referral](https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=2) online [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout\_id=2].

Anonymous referrals are accepted. Please see the [Behavioral Intervention Team](https://www.tamuct.edu/bit) website for more information [https://www.tamuct.edu/bit]. If a person's behavior poses an imminent threat to you or another, contact 911 or A&M-Central Texas University Police at 254-501-5805.

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### **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.

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