

CIS 3365-110 System Analysis and Design

August 26, 2019 – December 13, 2019

Tuesday and Thursday 11:00 am - 12:15 pm

Founder's Hall RM 308

Professor Kay Addison

kayaddison1@tamuct.edu

Phone: 254-519-5469

Location: 323P Founder's Hall

Office Hours

Monday - Wednesday 11am -2pm

Tuesday -Thursday 1pm -3pm

By appointment

MODE OF INSTRUCTION AND COURSE ACCESS

This is a face-to-face class. We will use the Canvas for exams, assignments, and grade reporting.

STUDENT-INSTRUCTOR INTERACTION

I check my email (kayaddison1@tamuct.edu) twice daily during the week, in the evenings, and on most Saturdays and Sundays. I can meet face to face, on the phone, or online using web-conference tools. Please contact me to set up an appointment.

UNILERT

Emergency Warning System for Texas A&M University – Central Texas UNILERT 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 UNILERT through their myCT email account. Connect at <https://www.tamuct.edu/departments/security/unilert.php> to change where you receive your alerts or to opt out. By staying enrolled in UNILERT, university officials can quickly pass on safety-related information, regardless of your location.

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 911Cellular through their myCT email account.

In an effort to enhance personal safety on the Texas A&M University – Central Texas (TAMUCT) campus, the TAMUCT Police Department has introduced Warrior Shield by 911 Cellular. [Warrior Shield](https://www.tamuct.edu/police/911cellular.html) [<https://www.tamuct.edu/police/911cellular.html>] can be downloaded and installed on your mobile device from Google Play or Apple Store.

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 OVERVIEW

This course provides an analysis of the systematic design and development of software systems with special emphasis on the processes and techniques used in the first four phases of the System Development Life Cycle. It examines traditional and current methodologies in system analysis and design and gives detailed explanations of the methods and tools that are essential in creating effective information systems. The concepts stressed are the software development life cycle, project management, object-oriented systems, and systems modeling with UML.

COURSE OBJECTIVE(S)

By the end of this course, students will be able to:

- Understand the fundamentals of the system development life cycle and object-oriented system design and analysis.
- Understand the Unified Process and Unified Modeling Language.
- Understand project management processes and how they align with system analysis and design
- Design and explain each of the different parts of a computer information system.
- Examine system components and identify how they are used in an entire system.
- Analyze and design an information system using the methodologies and tools learned.

REQUIRED TEXTBOOK

System Analysis and Design: An Object-Oriented Approach with UML, 5th Edition

Author: Dennis, Wixon and Tegarden

ISBN-13: 978-1118804674

ISBN-10: 1118804678

Student Companion Site:

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

REQUIRED READING

The student is expected to read and review all material presented in the assigned chapter prior to class.

COURSE REQUIREMENTS -Additional requirements will be posted in Canvas

Exams

There will be three exams. Each exam is worth 100 points. Final exam will not be comprehensive. The exams can be conducted on canvas. Exams will be based on the

textbook, readings, and class discussions. It is assumed that you will read the assigned chapters and readings in advance. 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

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 40 points.

Project Report

The final project report is the integration of all previous milestones. Each student will need to incorporate all comments and feedback provided while evaluating the project milestones throughout the semester. Guidelines for preparing a professional project report will be uploaded on Canvas. Project report is worth 100 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 online through Canvas. Each quiz is worth 20 points.

GRADING CRITERIA RUBRIC AND CONVERSION

Criteria	Points
Exam 1	100 points
Exam 2	100 points
Final Exam	100 points
Assignments	400 points
Project Report	100 points
Quizzes	200 points

Grade	Points
A	900-1000
B	800-899
C	700-799
D	600-699
F	Below 600

POSTING OF GRADES

- All grades will be posted in Canvas.
- All assignments will be graded within 2 weeks of the due date.
- ****Note:** All late assignments will lose 25 points per late day.
- ****Note:** All due dates are to be taken as midnight of the posted day.

COURSE CALENDAR 2019			
<i>These dates are subject to change at the discretion of the instructor.</i>			
Week	Date	Reading Assignment	Due Date
Week 1	8/26	Chapter 1: Introduction to System Analysis and Design Assignment 1 Quiz 1	9/1
Week 2	9/2	Chapter 2: Project Management Assignment 2 Quiz 2	9/8
Week 3	9/9	Chapter 3: Requirements Determination Assignment 3 Quiz 3 Review Chapter 1-3	9/15
Week 4	9/16	Exam 1 (Chapter 1-3) Chapter 4: Business Process and Functional Modeling	9/22
Week 5	9/23	Assignment 4 Quiz 4 Chapter 5: Structural Modeling	9/29
Week 6	9/30	Assignment 5 Quiz 5 Chapter 6: Behavioral Modeling	10/6
Week 7	10/7	Review Chapter 4-6 Assignment 6 Quiz 6	10/13
Week 8	10/14	Exam 2 (Chapter 4-6)	10/20
Week 9	10/21	Assignment 7 Quiz 7 Chapter 7: Moving on to Design	10/27
Week 10	10/28	Assignment 8 Quiz 8 Chapter 8: Class and Method Design	11/3

Week 11	11/4	Assignment 9 Quiz 9 Chapter 9: Data Management Layer Design	11/10
Week 12	11/12	Assignment 10 Quiz 10 Chapter 10: Human-Computer Interaction Layer Design	11/17
Week 13	11/18	Chapter 11: Physical Architecture Layer Design	11/24
Week 14	11/25	Chapter 12: Construction	12/1
Week 15	12/2	Chapter 13: Installation and Operations	12/8
Week 16	12/9	Review Chapters 7- 13 Final Exam Report Project	12/13

INSTRUCTOR POLICIES

Copyright Notice	<p>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.</p> <p>Copyright. 2019 by Kay Addison at Texas A&M University-Central Texas, COBA; 1001 Leadership Place, Killeen, TX 76549; 254-519-5469); kayaddison1@tamuct.edu</p> <p>Logon to https://tamuct.blackboard.com to access the course. Username: Your MyCT username (xx123 or everything before the "@" in your MyCT e-mail address) Initial password: Your MyCT password</p>
-------------------------	--

	<p>Check browser and computer compatibility by using the “Test Your Browser” button, found in the “Check Your Browser” module on your Blackboard dashboard, once you have logged in. Technology Support. For technology issues, students should contact Help Desk Central. 24 hours a day, 7 days a week:</p> <p>Email: helpdesk@tamu.edu Phone: (254) 519-5466 Web Chat: http://hdc.tamu.edu</p> <p><i>When calling for support please let your support technician know you are a TAMUCT student.</i></p> <p>For issues related to course content and requirements, contact your instructor.</p>
COURSE AND UNIVERSITY PROCEDURES AND POLICIES	
Drop Policy	<p>If you discover that you need to drop this class, you must go to the Registrar’s Office and complete a Drop Request Form. Professors cannot drop students; this is always the responsibility of the student. The Registrar’s Office will provide a deadline on the University Calendar for which the form must be returned, completed and signed. Once you return the signed form to the Registrar’s Office and wait 24 hours, 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 deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid.</p>
Academic Integrity	<p>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</p>

	<p>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.</p>
Access & Inclusion	<p>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 an education that is barrier-free. The Office of Access & Inclusion is responsible for ensuring that students with a disability enjoy equal access to the University's programs, services and activities. Some aspects of this course or the way the course is taught may present barriers to learning due to a disability. If you feel this is the case, please contact Access & Inclusion at (254) 501-5831 in Warrior Hall, Ste. 212. For more information, please visit their website at https://www.tamuct.edu/departments/access-inclusion/ Any information you provide is private and confidential and will be treated as such.</p>
Tutoring	<p>Tutoring is available to all TAMUCT students, both on-campus and online. Subjects tutored include Accounting, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111.</p> <p>If you have a question regarding tutor schedules, contact information, 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 Kim Wood at k.wood@tamuct.edu</p> <p>Chat live with a tutor 24/7 for almost any subject on your computer! Tutor.com is an online tutoring platform that enables TAMUCT students to log-in and receive FREE online tutoring and writing support. This tool provides tutoring in Mathematics, Chemistry, Physics, Biology, Spanish, Calculus, and Statistics. To access Tutor.com, click on https://www.tamuct.edu/departments/academicsupport/tutoring.php</p>
University Writing Center	<p>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 11am-6pm Monday-Thursday. 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). Tutors are prepared to help writers of all levels and abilities at any stage of the writing process.</p> <p>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'</p>

	<p>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!</p> <p>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.</p>
<p>University Library</p>	<p>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 TAMUCT 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.</p> <p>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.</p> <p>Our 27,000-square-foot facility on the TAMUCT 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 homepage: https://tamuct.libguides.com/</p>