CSCI 359.01B

Systems Analysis and Design

COURSE SYLLABUS: FALL 2024

INSTRUCTOR INFORMATION

Instructor: (Name & Title) Dr. Abdullah N. Arslan
Lecture Hours: TR 2:00pm-3:15pm
Lecture Location: JOUR 129

Office Location: JOUR 122
Office Hours: TR 11am-12:30pm

Office Phone: 903 886 5427
Office Fax: 903-886-5404

University Email Address: Abdullah.Arslan@tamuc.edu

Preferred Form of Communication: e-mail
Communication Response Time: 24 hrs

COURSE INFORMATION

Prerequisite

CSCI 340 (concurrently) or CSCI 270 (Min Grade C)

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Required

Systems Analysis and Design in a Changing World (7th Edition), 2016, John W. Satzinger, Robert B. Jackson, Stephen D. Burd, ISBN: 978-1-305-11720-4

The professor will make supplementary information for the course available online. These include class notes, assignments, PowerPoint slides, class announcements, the course syllabus, test dates, etc. The professor will announce in class when such information becomes available electronically. It is the student's responsibility to follow these announcements.

Software Required

Microsoft Vision for creating project documents

Optional Texts and/or Materials

Course Description

Hours: 3

The content of the system analysis and design life cycle (SDLC) in this textbook closely mirrors what our student audience will face in the local area job market. One of the best ways to learn SDLC is through case studies and this textbook has a running case study throughout each chapter better than the other competing textbooks. If you can find a good deal on the fourth edition of the book, that should be fine.

The main objective of this course is to teach students a comprehensive, balanced and up-to-date coverage of traditional and the object-oriented approach to systems analysis and design.

Student Learning Outcomes

1) Understand concepts relating to different types of information systems
2) Explain the purpose and activities of the systems development life cycle phases
3) Understand project management techniques
4) Identify and understand system inputs and outputs
5) Understand and model system entities and data stores
6) Understand and model system processes, events, and data flows within a system
7) Understand and model classes of data within a system
8) Understand concepts relating to various models, tools, and techniques used in system analysis and design.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

Students must know using the learning management system. Students must have basic programming knowledge in a high level programming language.

Prerequisite

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Instructional Methods

In addition to face-to-face lectures, D2L will be a method of communication for the entire course. Please go to myLeo, and find D2L in Apps. Course materials such as lecture slides will be found in D2L.

Student Responsibilities or Tips for Success in the Course

1. Check the course website regularly (ideally early every week) so that you follow the course schedule and plan.
2. Read the slides, examples and other supplementary material carefully.
4. Work independently on individually assigned tasks.
5. Choose your project topic and team carefully, and collaborate with your team members on tasks assigned to teams.
5. Ask your questions in a timely manner to the instructor and the teaching assistant.

GRADING

Final grades in this course will be based on the following scale:

A = 90%-100%

B = 80%-89%

C = 70%-79%

D = 60%-69%

F = 59% or Below

The final score will be out of 100, and the above percentages will be applied to student's total score to determine the letter grade.

Assessments

Quizzes	10%
Midterm Exam	20%
Written Assignments	25%
Project Team Presentation	20%
Project Individual Contributions Presentation	25%

Quizzes, assignments, and tests will include questions on each of the student learning outcomes listed in this document. Students will form a team of 3-4 and do a project following software development principles.

All individual assignments must be completely the original work of the student submitting them. Team assignments can be submitted by one team member for the entire team. Your completed work must be placed in the appropriate submission folder of D2L. DO NOT EMAIL ME ANY ASSIGNMENTS. Please follow the rules for naming and posting assignments, as outlined in the Grading Rubric document. All assignments must be completed on time.

TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:
https://community.brightspace.com/s/article/Brightspace-Platform-Requirements

LMS Browser Support:
https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

YouSeeU Virtual Classroom Requirements:
https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu**.**

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

https://community.brightspace.com/support/s/contactsupport

Interaction with Instructor Statement

The instructor will respond to your questions within 24 hrs unless there are exception situations such as sickness.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

For all Quizzes and Tests please follow the instructions posted along with them.

All quizzes and tests are closed book.

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the Student Guidebook.
http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum:
https://www.britannica.com/topic/netiquette

TAMUC Attendance

For more information about the attendance policy please visit the Attendance webpage and Procedure 13.99.99.R0.01.
http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf

Academic Integrity

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

Undergraduate Academic Dishonesty 13.99.99.R0.03

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf

Graduate Student Academic Dishonesty 13.99.99.R0.10

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf

Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Gee Library- Room 162
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
Email: studentdisabilityservices@tamuc.edu
Website: Office of Student Disability Resources and Services
http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/

Nondiscrimination Notice

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who

have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the Carrying Concealed Handguns On Campus document and/or consult your event organizer.

Web url:
http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

Texas A&M University-Commerce acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

13.99.99.R0.03 Undergraduate Academic Dishonesty
https://inside.tamuc.edu/aboutus/policiesproceduresstandardsstatements/rulesprocedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf

13.99.99.R0.10 Graduate Student Academic Dishonesty
https://inside.tamuc.edu/aboutus/policiesproceduresstandardsstatements/rulesprocedures/13students/graduate/13.99.99.R0.10.pdf

COURSE OUTLINE / CALENDAR

TOPICS AND ACTIVITIES BY WEEKS

WEEK	TOPIC	Assignments	Quiz & Exams
1	An Overview of Systems Analysis and Design		
2	Approaches to System Development		Quiz 1
3	Project Planning and Management		
4	Project Teams and Topics		
5-6	Investigating System Requirements and Modeling	Assignment 1	Quiz 2
7	Review	Assignment 1 is due	Midterm Exam
8-10	Essentials of Design, the Design Activities and Modeling	Assignment 2	
11	Review	Assignment 2 is due	
12	Discussions, Making the System Operational	Assignment 3/presentation	Quiz 3
13-14	Discussions, Final Exam and Presentations	Assignment 3 and presentations are due	

The *syllabus/schedule are* subject to change*. Planned dates may shift. There may be additional use of other learning tools such as Coursera. The instructor will notify students when there are changes.*