



CSCI 359, System Analysis and Design

COURSE SYLLABUS: Fall 2020

INSTRUCTOR INFORMATION

Instructor:	Prof. Eman Hammad
Office Location:	ACB1-321
Office Hours:	TBD, or by appointment
Office Phone / Fax:	TBD
University Email Address:	eman.hammad at tamuc dot edu (please indicate course number in the email subject line)
Preferred Form of Communication:	Office hours, email
Communication Response Time:	email response within 1~2 business days

COURSE INFORMATION

Lectures (Time/Location):

- Tuesday/Thursday, 10:35 – 11:50 AM.
- Synchronously: in-person at ACB1 314, virtual at myLeo online D2L.
- Recorded sessions will be uploaded to the course module on myLeo online D2L.

Textbook(s) Required:

- Systems Analysis and Design in a Changing World, John W. Satzinger, Robert B. Jackson, Stephen D. Burd, 8th Edition, Pearson.

Course Description

This course covers traditional and Object-Oriented methods for analysis, design, and implementation of computer based information systems; also includes project management and Computer Assisted System Engineering (CASE). The main goal of this course is to introduce students to the several phases of the traditional structured analysis, object-oriented concepts, and agile methods approaches to systems analysis and design. This course introduces the major concepts, techniques, and challenges of software engineering so that students can prepare for their future careers as software engineers.

Student Learning Outcomes

Upon completing this course students should be able to:

The syllabus/schedule are subject to change.

- Discuss key principles for software project management such as cost estimation and risk analysis.
- Explain well known software development process models.
- Develop an awareness of the different approaches that might be taken towards systems analysis and design.
- Develop the ability to analyze a problem and define appropriate computing requirements to solve it.
- Learn how to use modeling techniques (such as UML diagrams) to specify the requirements and design of an information system.
- Understand and apply software testing techniques.
- Communicate effectively with a range of audiences.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

Prerequisites: CSCI 270 or COSC 2336

Instructional Methods

During this course, we will use traditional and active learning methods, and work together using:

- In-class lectures: using slides, supplementary materials, and hands-on exercises.
- Assignments that will be released via the Learning Management Systems (LMS).
- Course project: details of the project will be released around week 4.

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Student Responsibilities or Tips for Success in the Course

1. It is expected that you are the owner of your success in this course, including ensuring you understand the expectations, timelines, policies and learning objectives.
2. Baseline expectations:
 - a. Check LMS frequently.
 - b. Follow the material in the textbook frequently, and use the slides as your guideline.
 - c. Start your homework assignments early.
 - d. Check the feedback of homework assignments.
 - e. Do your work independently: collaboration and participation in study groups is encouraged to improve your understanding and to develop problem-solving strategies. However, cheating and plagiarism will not be tolerated, i.e. do not copy other people's work.
 - f. Contact the instructor when you are confused, or having difficulties with the course material / assignment / project.

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

Assessments

Assessment Type	Weight of Final Grade	Learning Objectives
Assignments & quizzes	20%	Understanding of concepts and problem solving
Mid-term Exam 1	20%	
Mid-term Exam 2	20%	
Project & presentation	40%	Critical understanding and problem solving using course concepts

Project Information: A significant component of the course consists of selecting a semester project. Each student is to work on their project individually. Each student is required to prepare and submit a weekly project status report that includes major activities and contributions.

COURSE OUTLINE / CALENDAR

Week	Course Subject
Week 1	Introduction to Systems Analysis and Design
Week 2	Systems Planning
Week 3	Project Management

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Week 4, 5	Requirements Modeling
Week 6	Data and Process Modeling
Week 7	Object Modeling
Week 7	Midterm exam 1
Week 8	User Interface Design
Week 9	Data Design
Week 10	System Architecture
Week 11	Software Testing & Managing Systems Implementation
Week 12	Project Presentations
Week 13	Project Presentations, Thanksgiving Holiday
Week 14	Midterm exam 2 (comprehensive)

*The schedule is **tentative** and may be adjusted to fit the actual class progress.

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 is expected to have a backup method to deal with these inevitable problems. In case of extreme technology related circumstances, please communicate directly with the instructor to best manage your success in this course.

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COMMUNICATION AND SUPPORT

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

To communicate with me about this course, kindly use the email address included in this syllabus. During the week, you can generally expect a response to your emails within 1-2 business days. *If you do not receive my response in 2 business days, please send a second email to me.*

You can call or stop by my office during office hours, or request an appointment through email. To ensure I get your email and respond within indicated timelines above, please make sure that:

- Your email message is sent from your Texas A&M student account.
- Your email message includes a descriptive subject with the indicated prefix:
CSCI 359 – Spring 2020 --<CWID>: <descriptive subject>

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

Attendance is required but not graded. Students are expected to do the readings, attend class, and participate in class discussions. Each student is responsible for managing their own time and work-load. Emergency / extreme circumstances causing a student to miss deadlines/exams will need to be supported by official and university approved documentation.

Positive Learning Environment

Your commitment as a student to learning is evidenced by your enrollment at Texas A &M University-Commerce. "All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment." (See Student's Guide Handbook, Policies and Procedure, Conduct). All phones, pagers, and other communication devices are to be turned off or place on silent mode during class.

Late Policy

The deadline for any assignment/project can be extended with a 15% penalty per day, for a maximum of two days. Assignments/project will NOT be accepted 48 hours after the due date.

Makeup Policy

The syllabus/schedule are subject to change.

There will be no makeup exams or quizzes. If you shall miss a quiz/exam because of acceptable extreme circumstances (hospitalization, serious injury, death in the family etc.), you may be offered to choose to receive a grade based on your in-class ranking in the next quiz/exam.

Collaboration Policy

Students are encouraged to consult with each other, with the instructor, or anyone else about any assignments / project. However, this must be limited to the discussion of the problem and sketching general approaches to a solution. Each student is responsible for submitting their own independent solutions to the assignment / project. Consulting another student's or group's solution is prohibited, and submitted solutions may not be copied from any source. These and any other form of collaboration on assignments constitute cheating. If you have any question or doubts about whether some activity would constitute cheating, please feel free to ask.

Academic Integrity

Instances of academic dishonesty will not be tolerated. Cheating on exams or plagiarism (presenting the work of another as your own, or the use of another person's ideas without giving proper credit) will result in a failing grade and sanctions by the University. For this class, all assignments / project are to be completed by the individual student unless otherwise specified.

Any student cheating will receive a zero on the work they are doing, and subsequent cheating will result in a failing grade and potential academic sanctions.

Basic Tenets of Common Decency

“All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment.” (Student’s Guide Handbook, Policies and Procedures, Conduct.) This means that rude and/or disruptive behavior will not be tolerated.

Disclaimer

This syllabus is meant to provide general guidance of what to expect from this course. The instructor reserves the right to make changes as appropriate based on the progress of the class. All changes made to this syllabus during the semester will be announced. This document has been posted electronically. If you print a copy of it, please be sure to consult the last modified date of the online version to verify that your printed copy is current.

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.

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University Specific Procedures

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

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requires that all students with disabilities be guaranteed a learning environment that provides for 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.

Coronavirus Safety Measures

Students must observe the following practices while participating in face-to-face courses and course-related activities (office hours, transitioning to and between classes, study spaces, academic services, etc.)

Self-monitoring

Before you return to campus you should review the self-monitoring CDC recommendations that are available and hyperlinked below:

[Self-monitoring CDC Recommendations](#)

Students who have a fever or exhibit symptoms of COVID-19 should participate in class remotely and should not participate in face-to-face instruction or visit campus.

Face Coverings

Face coverings (cloth face covering, surgical mask, neck gaiters, etc.) must be properly worn in all common areas including classrooms, lobbies and hallways, and offices.

- To attend a face-to-face class, students must wear a face covering (or a face shield if they have an exemption letter). If a student refuses to wear a face covering, the instructor should ask the student to leave and join the class remotely. If the student does not leave the class, the faculty member should report the incident to Carlos Pinkerton (cpinkerton@rellis.tamus.edu). Carlos will follow-up with the student and initiate the student conduct process. Additionally, the faculty member may choose to teach that day's class remotely for all students.

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- Students who refuse to wear face coverings may be subject to possible sanctions for violations including failure to comply with university official, failure to comply with federal, state and local laws, disorderly conduct, and disruptive activity.

Physical Distancing

Physical distancing must be maintained between students, instructors, and others in course and course-related activities.

Within the building, we ask that you

- Follow marked pathways for entering and exiting classrooms.
- Leave classrooms promptly after course activities have concluded.
- Avoid congregating in hallways and maintain 6-foot physical distancing when waiting to enter classrooms and other instructional spaces.

Outside of the building we ask that you:

- Practice physical distancing of at least 6 feet
- Wear a mask unless you can maintain an appropriate physical distance of 6 feet

Quarantine

Students required to quarantine must participate in courses and course-related activities remotely and **must not attend face-to-face course activities**. Students should notify their instructors of the quarantine requirement. Students under quarantine are expected to participate in courses and complete graded work unless they have symptoms that are too severe to participate in course activities.

Remote Learning

Every face-to-face class will have a remote learning option. The remote learning will be enabled using the following guidelines:

- Lectures: will be delivered synchronously during class time, and the recordings shall be uploaded afterwards on the LMS.
- Remote learning students would be able to participate in the class discussions live via the chat feature or offline via the discussion threads on the LMS.
- Assignments and assessments would all be accessible online on the LMS.
- Students can always communicate with the instructor via email or through the discussion threads to request additional help.

Excused Absence

Students experiencing personal injury or illness that is too severe for the student to attend class qualify for an excused absence.

<https://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

COVID-19 Reporting Process

If you are exhibiting signs of COVID-19, we ask that you do not come to class. Instead you should complete the following steps:

Visit with a medical professional for evaluation and possible testing. Any upper-division student at RELLIS can visit the Texas A&M Physicians Health Community Clinic. The clinic is located in the Bryan Medical Center at:

2900 East 29th Street, Suite #1010,
Bryan, Texas 77802.

Report your signs and/or testing outcome using the A&M System Portal available and hyperlinked below:

[Texas A&M University System Portal](#)

You should utilize the portal if:

- You tested positive for COVID-19

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- You are experiencing COVID-19 symptoms
- You have been in close contact (within 6 feet for more than 15 minutes) of someone who has or is suspected to have COVID-19
- Someone in your household (including roommate or housemate) has tested positive for COVID-19

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