CSCI 440 01W Applied Software Project Development
COURSE SYLLABUS: SPRING 2024

INSTRUCTOR INFORMATION

Instructor: Kathiravan Natarajan
Office Location: JOUR 209
Office Hours: The course instructor will communicate via the course page
Office Phone: N/A
Office Fax: N/A
University Email Address: Kathiravan.Natarajan@tamuc.edu
Preferred Form of Communication**:** Slack and Email
Communication Response Time: 1 day to 3 days

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Required
Systems Analysis and Design
Author: Kenneth E. Kendal and Julie E Kendall
Edition: 11TH
Published Date: 2023
ISBN:
Publisher: PEARSON

Course contents will be shared on the course web page. A textbook is beneficial but not mandatory.

Software Required
　　　It will be communicated on the course page.

Optional Texts or Materials
Course materials should suffice in achieving the educational goals of this course.

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Course Description

Student Learning Outcomes (Should be measurable; observable; use action verbs)

1. Software Development Process Models: Explain various well-known software development process models.
2. Modeling Techniques: Utilize modeling techniques like UML diagrams for specifying software system requirements and design.
3. Interface Design: Build user-friendly, aesthetic, and functional interfaces for software and application projects.
4. Problem Analysis and Solution Formulation: Analyze problems, identify issues, and formulate/implement solutions using appropriate computing techniques.
5. Software Testing: Apply software testing techniques to evaluate computer-based systems.
6. Effective Communication: Communicate effectively with diverse audiences.
7. Team Collaboration: Work effectively within a team to complete independent projects under time and design constraints.
8. Team Constitution Development: Develop and implement a team constitution.
9. Conflict Resolution: Resolve team conflicts in a project-building environment.
10. Integration and Documentation: Connect databases and interfaces to software projects and create comprehensive system documentation, including help files, diagrams, and programming code.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

No prerequisites needed

Instructional Methods

In-person lectures in the assigned classroom. The instructor will share the course materials on the course web page as well.

Student Responsibilities or Tips for Success in the Course

- Keep up-to-date with the weekly quizzes
- Practice command line commands discussed in the classroom
- Complete the homework on time and
- Reach out to instruction for any questions and clarifications

GRADING

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

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A = 90%-100%
B = 80%-89%
C = 70%-79%
D = 60%-69%
F = 59% or Below

Total points corresponding to the final letter grades
A = 451- 500 Points
B = 401- 450 Points
C = 351- 400 Points
D = 301- 350 Points
F = 300 & >   Points

Weights of the assessments in the calculation of the final letter grade.
Example:

Weekly Quizzes	15%
Project	20%
Assignment	15%
Two Midterm Exams	30%
Final Exam	20%
TOTAL	100%

Assessments

Assessments will be conducted in person, including the two midterm exams, the final exam, and the project.

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:

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

Zoom Video Conferencing Tool
https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom_Account.aspx?source=universalmenu

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

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COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

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.

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 Procedures 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
Undergraduate Student Academic Dishonesty Form

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/documents/13.99.99.R0.03UndergraduateStudentAcademicDishonestyForm.pdf

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[Graduate Student Academic Dishonesty Form](#)

http://www.tamuc.edu/academics/graduateschool/faculty/GraduateStudentAcademicDishonestyFormold.pdf

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.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 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
Velma K. Waters Library Rm 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

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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.

A&M-Commerce Supports Students' Mental Health

The Counseling Center at A&M-Commerce, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit **www.tamuc.edu/counsel**

AI use policy [Draft 2, May 25, 2023]

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.

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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

13.99.99.R0.10 Graduate Student Academic Dishonesty

Department or Accrediting Agency Required Content

COURSE OUTLINE / CALENDAR

Week	CONTENT
W1 (01/10)	Systems, Roles, and Development Methodologies
W2 (01/15)	Understanding and Modeling Organizational Systems
W3 (01/22)	Project Management
W4 (01/29)	Information Gathering: Interactive Methods
W5 (02/05)	Information Gathering: Unobtrusive Methods
W6 (02/12)	Agile Modeling, Prototyping, and Scrum
W7 (02/19)	Midterm Test 1
W8 (02/26)	Using Data Flow Diagrams
W9 (03/04)	Analyzing Systems Using Data Dictionaries
W10 (03/11)	Spring Break – Campus Closed
W11 (03/18)	Process Specifications and Structured Decisions
W12 (03/25)	Object-Oriented Systems Analysis and Design Using UML
W13 (04/01)	Midterm Test 2
W14 (04/08)	Designing Effective Output, Designing Effective Input
W15 (04/15)	Designing Databases
W16 (04/22)	Final Revision, Project presentation, Final Preparation Week
W17 (04/29)	Final Exam

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