UT Tyler COLLEGE OF ENGINEERING

COSC 4336 – Software Development

Syllabus

Catalog Description:

Provides an intensive, implementation-oriented introduction to the software development techniques used to create medium-scale interactive applications, focusing on the use of large object-oriented libraries to create well-designed graphical user interfaces. Topics include event-driven programming, computer graphics, human-computer interaction (HCI), and graphical user interfaces. Prerequisite: COSC 2336.

Text Books:
Required:

Systems Analysis and Design
By Tilley, Scott
Edition : 12TH
Publisher : Cengage
ISBN 13 : 9780357117811

Class Times:

COSC4336.001	Lecture:	TuTh 3:30pm-4:50pm	COB255

Grading Policy:

Tests (2)	20% (10% each)
Presentation	10%
Requirements Documentation	10%
Project	30%
Team Review	10%
Ratliff Relays	20%
TOTAL	**100%**

Ratliff Relays:
There will also be one group project for the Department of Engineering's Ratliff Relays.

- You will be assigned a team that spans different classes (Capstone, COSC4336, COSC1337) with members of varying levels of experience.
- This project accounts for 20% of your overall grade.

Homework/Project online submissions will be due via Canvas by 11:59PM on designated nights unless otherwise stated.
No late submissions will be accepted.

Late Submissions and Tests:
Assignments/Labs/Projects/Presentations will not be accepted after the due date.

Homework Policy:

Most of the homework/projects/presentations in this course will be done as a group. Group projects will be submitted individually by each team member to their Canvas portal. Files should all be submitted individually and not in a zip file, as the grading system cannot properly display zip file contents.

FOR THIS CLASS,AI will be allowed to generate code, presentations, and associated documentation. If AI is used, it must be noted in your assignment submission which material was AI generated. AI may not be used for tests or other assignments that are not directly related to the main project.

Academic Dishonesty: You are expected to do your own work. You may assist each other with general concepts, but direct assistance with a particular assignment or any attempts to gain an unfair academic advantage will not be tolerated. Cheating is considered a serious academic offense both by the department and the University. It may result in a failing grade from this course for all parties involved. The instructor reserves the right to ask you to explain any assignment that you turn in to judge if the work is actually yours. AI generated work will not be accepted.

Use of Artificial Intelligence (AI)

FOR THIS CLASS,AI will be allowed to generate code, presentations, and associated documentation. If AI is used, it must be noted in your assignment submission which material was AI generated. AI may not be used for tests and non-project related assignments.

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Contact Information:

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Office Hours: MW 9:00am – 12:00noon, 1:00pm - 3:45pm
TTH, 1:00pm-3:15pm
And by Appointment

Course Topics:

Learning Outcome	Comprehension of software development methods and life cycle models Analyze software project requirements Application of agile software development principles Describe & apply design concepts Understand state-of-the-art tools for large-scale software development Analyze and evaluate graphical user interfaces Compare testing strategies for unit and integration testing Apply the major software development techniques in practical projects

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Course Timeline:

Course	COSC4336
Time	TTH 3:30-4:50
Room	COB255
8/24/2026	Intro to Software Development (CH 1), Team duties, Team assignments, Intro to Ratliff Relays
8/31/2026	Team introductions, Business Analyst (CH 3), Requirements gathering
9/7/2026	Team Lead, Managing Projects (Ch2), **Documentation - Requirements**
9/14/2026	Protecting your Code (GitHub, RCS), SDLC (Waterfall, Agile)
9/21/2026	**Test 1**, Development Strategies (CH7)
9/28/2026	**Presentation - Design and Features**
10/5/2026	User Interface design (CH8)
10/12/2026	Testing by Design - Alpha, Beta, Official **Ratliff Relays Competition**
10/19/2026	Documentation - Code, Support, User, online vs book
10/26/2026	**Test 2, Presentations - Project Status**
11/2/2026	**Presentations - Project Status**
11/9/026	Implementation (CH11)
11/16/2026	Support - (ch12)
11/23/2026	**Thanksgiving Holidays**
11/30/2026	**Final Project Presentations, Documentation**
12/7/2026	No Finals

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Additional Policies:

Students Rights and Responsibilities
To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: http://www.uttyler.edu/wellness/StudentRightsandResponsibilities.html

Grade Replacement/Forgiveness
If you are repeating this course for a grade replacement, you must file an intent to receive grade forgiveness with the registrar by the 12th day of class. Failure to do so will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates will receive grade forgiveness (grade replacement) for only three course repeats; graduates, for two course repeats during his/her career at UT Tyler.

State-Mandated Course Drop Policy
Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the 12th day of class (See Schedule of Classes for the specific date).
Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Registrar's Office and must be accompanied by documentation of the extenuating circumstance. Please contact the Registrar's Office if you have any questions.

Disability Services
If you have a disability, including a learning disability, for which you request disability support services/accommodation(s), please contact Ida MacDonald in the Disability Services office so that the appropriate arrangements may be made. In accordance with federal law, a student requesting disability services/accommodation(s) must provide appropriate documentation of his/her disability to the Disability Services counselor. In order to assure approved services the first week of class, diagnostic, prognostic, and prescriptive information should be received 30 days prior to the beginning of the semester services are requested. For more information, call or visit Disability Services located in the University Center, Room 3150. The telephone number is (903) 566-7079. Additional information may also be obtained at the following UT Tyler Web address: http://www.uttyler.edu/disabilityservices.

Student Absence due to Religious Observance
Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities
If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement:
It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation:

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do Not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.