



COSC 4336 Software Development, Fall 2019

M/W/F 9:05 AM – 10:00 AM @ COB 255

Dr. Lidong Wu | (469) 443-8682 | Email: lwu@uttyler.edu

Office: COB315.12 | Office Hours: MWF 10:00-11:00 AM or by appointment

General Course Information

Required Texts	<i>Systems Analysis and Design</i> , by Harry J. Rosenblatt (11 th edition). ISBN-10: 1305494601 ISBN-13: 9781305494602
Suggested Materials	<i>Object-Oriented Software Engineering: An Agile Unified Methodology</i> , by David Kung (1 st edition). ISBN-10: 9780073376257 <i>Software Engineering: A Practitioner's Approach</i> , by Roger Pressman (7 th edition). ISBN-10: 0073375977 ISBN-13: 978-0073375977 <i>Applying UML and Patterns: An Introduction to Object-Oriented Analysis and Design and Iterative Development</i> , by Craig Larman(3 rd edition). ISBN-13: 978-0131489066 ISBN-10: 0131489062 <i>Object-Oriented and Classical Software Engineering</i> by Stephen R Schach (8 th Edition). ISBN-13: 978-0073376189 ISBN-10: 0073376183
Pre-requisites	COSC 2336
Course Description	It presents a step-by-step methodology - that integrates Planning, Requirements Modeling, UML Tools, Interface and Data Design, CASE tools, Implementation, Test-Driven Development, Quality Assurance, Configuration Management, and Agile Principles throughout the life cycle of software development. Students will be assigned to a group project and will work together through the full development cycle, from understanding the requirements to delivering a functioning product, and will make a series of presentations and reports of the work.
Learning Outcomes	<ol style="list-style-type: none"> 1. Describe software life cycle models 2. Analyze software project requirements 3. Translate the analysis model into the design model 4. Describe agile software development 5. Describe & implement design concepts 6. Evaluate graphical user interfaces 7. Compare testing strategies for unit and integration testing 8. Describe software development techniques utilized by a team

Grading Policy

Weighting Scheme	Exam I - 15% Exam II - 15% Group Project - 40% Individual Project Contribution - 30% Each unexcused absence -3 Each class a student is 5 or more minutes late -1	90.0 - 100% A 80.0 - 89.99% B 70.0 - 79.99% C 60.0 - 69.99% D Below 60% F
-------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------



COSC 4336 Software Development, Fall 2019

M/W/F 9:05 AM – 10:00 AM @ COB 255

Dr. Lidong Wu | (469) 443-8682 | Email: lwu@uttyler.edu

Office: COB315.12 | Office Hours: MWF 10:00-11:00 AM or by appointment

Tentative Course Schedule

Week	Dates	Lecture Topics	Assignments
01	8/26-30	Introduction to Software Development	
02	9/2-6	No class on 9/2 Feasibility Study 1-minute pitch on 9/6	9/6: Project Proposal due (individual assignment) 9/6: Project Preference Survey 0 due (individual assignment)
03	9/9-13	Project team formation; Software Risk and Management	
04	9/16-20	Requirements Overview Use Case Modeling	9/20: Report: Project Phase I: Feasibility and Plan due (group assignment) 9/20: Survey 1 due (individual assignment)
05	9/23-27	Static Modeling; Data Modeling Dynamic Modeling Development Strategies	
06	9/30-10/4	UI design and Database design Review Exam I on 10/4 (Friday)	
07	10/7-11	Architecture and Design	
08	10/14-18	Project Work Day on 10/14 (Monday) Presentation: Project Phase II	10/18: Report: Project Phase II due (group assignment) 10/18: Survey 2 due (individual assignment)
09	10/21-25	Implementation Agile Development Coding and Testing	
10	10/28-11/1	Coding and Testing (cont.) System Support and Security	
11	11/4-8	Project Work Day on 11/4 (Monday) Presentation: Project Phase III	11/8: Report: Project Phase III due (group assignment) 11/8: Survey 3 due (individual assignment)
12	11/11-15	System Management (Advanced)	
13	11/18-22	A Summary of COSC4336 Review Exam II on 11/22 (Friday)	
14	11/25-27	Fall Break	
15	12/2-6	Final Project Presentation	12/6: Project Delivery due (group assignment) 12/6: Survey 4 due (individual assignment)

*Note that the schedule is subject to change as the course progresses.

Cell Phones

Turn off your cell phones or to vibrate mode. You have to turn them off in exams or quizzes.

Assignments

You have to turn them in on time. Points will be deducted for late assignments. A penalty of 30% will be deducted from your score for the first 24-hour period your assignment is late. A penalty of 70% will be deducted from your score for \geq 24-hour period. No credit for \geq 3 days. Weekend days will be counted. NO late projects will be accepted after one month.

Scholastic 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 instructor and by the University. It may result in a failing grade from this course for all parties involved. If you have questions about the line between assistance and cheating, discuss it with the instructor. For examples of Scholastic Dishonesty, please visit Section 8-802 of the [Manual of Policy and Procedures](#).

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 circumstances. 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/accommodations, please contact Ida MacDonald in the Disability Services office in UC.3150, or call (903) 566-7079. 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. More information may be obtained at <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.

UT Tyler a Tobacco-Free University

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors. Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products. There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit www.uttyler.edu/tobacco-free.

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.

Helpful Comments

This class is very interesting and useful. However, a lot of material and new concepts will be covered. To get full benefit out of the class you have to work regularly. Attend the classes regularly and start working on the assignments soon after they are handed out. Plan to spend at least 10 hours a week on this class doing assignments or reading.