

Course Syllabus

Course Information

CE/CS/SE 3354.004 Software Engineering
Fall 2017
Mon/Wed 11:30-12:45
ECSN 2.120

Professor Contact Information

Dr. Shiyi Wei
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Office hours: Mon/Wed 2:00-3:00pm or by appointment

Course Pre-requisites, Co-requisites, and/or Other Restrictions

CE/CS 2336 (Computer Science II)
CS 3333 (Data Structures)
CE/TE 3307 or CS 2305 (Discrete Mathematics for Computing I)
Pre- or co-requisite: ECS 3390 (Professional and Technical Communication)

Course Description

Introduction to software life cycle models.
Software requirements engineering, formal specification and validation.
Techniques for software design and testing.
Cost estimation models.
Issues in software quality assurance and software maintenance.

Student Learning Objectives/Outcomes

1. Ability to understand software lifecycle development models.
 2. Ability to understand and apply software requirements engineering techniques.
 3. Ability to understand and apply software design principles.
 4. Ability to understand and apply software testing techniques.
 5. Ability to understand the use of metrics in software engineering.
 6. Ability to understand formal methods in software development.
 7. Ability to establish and participate in an ethical software development team.
 8. Ability to use software project management tools and techniques.
 9. Ability to use CASE tools for software development.
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Recommended Textbooks and Materials

- I. Sommerville, Software Engineering, Tenth Edition, 2016.

Suggested Course Materials

- D.C. Kung, Object-Oriented Software Engineering: An Agile Unified Methodology, 2014.
- R. Pressman, Software Engineering: A Practitioner's Approach, Eight Edition, 2014.

Assignments & Academic Calendar

Mon, Aug 21	Classes begin
Mon, Sept 4	Labor Day (no classes)
Wed, Oct 4	Exam #1
Nov 20-24	Winter Break (Thanksgiving) (no classes)
Wed, Dec 6	Last day of class – Exam #2

Grading Policy

Quizzes	8%
Homework	12%
Project	30%
Exam #1	25%
Exam #2	25%

Grading Curve

97-100	A+
93-97	A
90-93	A-
87-90	B+
83-87	B
80-83	B-
77-80	C+
73-77	C
70-73	C-
67-70	D+
63-67	D
60-63	D-
under 60	F

Course & Instructor Policies

1. Make-up exams will be granted only for exceptional conditions, as approved by the instructor.
 2. 30% reduction in grade for late assignment submissions up to 24 hours. Assignments will not be accepted past due 24 hours unless there are extenuating circumstances.
 3. Assignments should include the class, the assignment, and your name.
 4. If you send email to the teacher or the TA, include which class you are discussing in the email (including the section number).
 5. The lowest quiz grade will be dropped.
 6. Assignments should be submitted through eLearning, but will also be accepted as hardcopy hand-ins.
 7. Cell phones shall not be used in the classroom during sessions. Place them on mute. If you receive a call, leave the room.
 8. Exams are closed book; no laptops.
 9. You are expected to attend class.
 10. By CS Dept policy, missing three (3) consecutive classes results in a letter grade drop and missing four (4) consecutive classes is an automatic failure for the class.
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UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.

Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.