

## *Course Syllabus*

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### **Course Information**

CE/CS/SE 3354.003  
Software Engineering  
Fall 2015  
Tue/Thur 11:30am-12:45pm  
ECSS 2.305

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### **Professor Contact Information**

Dr. Lingming Zhang  
Tel: (972) 883- 3573  
Email: Lingming.zhang@utdallas.edu  
Office: ECSS 4.205  
Office hours: Tue/Thur 2:00pm-3:00pm

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

CE 2336 or CS 2336 or TE 2336 with a grade of C or better or CS 3333  
CE 2305 or CS 2305 or TE 2305 with a grade of C or better or equivalent  
Prerequisite or Corequisite: ECS 3390

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### **Course Description**

Introduction to software life cycle models  
Software requirements engineering, formal specification and validation  
Software architecture and design  
Advanced techniques for software testing  
Formal methods in software engineering

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### **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 and modeling
  - 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 understand software project management
  - 9) Ability to understand CASE tools for software development
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### **Required Textbooks and Materials**

NONE

### **Suggested Course Materials**

Ian Sommerville, "Software Engineering", 9th Edition, Addison-Wesley, 2011. (Or 8th Edition, Or 7th Edition)

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Pressman, “Software Engineering: A Practitioner’s approach”, 7th Edition, McGraw Hill, 2010.  
(Or 6th Edition, Or 8th Edition )  
Pfleeger and Atlee, “Software Engineering: Theory and Practice”, 4th Edition, 2010, Prentice  
Hall, 2006.

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### **Assignments & Academic Calendar**

Thursday, Sept 24: Exam #1

Thursday, Oct 29: Exam #2

Nov 23-28 Holidays (no class)

Dec 8: Exam #3 (final) will be this day or during the final exam period

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### **Grading Policy**

Homework and quizzes: 20%

Project: 30%

Exam #1 10%

Exam #2 10%

Exam #3 20%

Course participation: 10%

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### **Course & Instructor Policies**

1. Make-up exams will be granted only for exceptional conditions.
  2. Extra credit work will be available as informed by the instructor.
  3. All assignments are due by the beginning of class on the day due.
  4. Assignments will not be accepted late unless there are extraordinary circumstances.
  5. Assignments should include your (team) name, your utd id, and the title of the assignment. The assignments missing identity may not get credit.
  6. Assignments should be submitted through eLearning, but may also be accepted as hardcopy hand-ins.
  7. You are expected to attend class.
  8. Cell phones shall not be used in the classroom during sessions. If you are expecting an emergency you may place them on silent. If you receive a call, leave the room.
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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.***