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Fall 2013

CEG 4110/6110-01: Introduction to Software Computer Engineering

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CEG 4110/6110 Introduction to Software Engineering

Fall 2013

Prof. Junjie Zhang

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Office: Russ 337

Dept. of Computer Science and Engineering
Wright State University

Schedule

Monday and Wednesday

6:10PM – 7:30PM

Medical Sciences 035

Office Hour

Wednesday 3:00PM – 4:30PM

Course Overview

This course will focus on discussing the principles and techniques used in software engineering. It will cover the essential topics including UML, Requirements Elicitation, Analysis, System Design, Object Design, and Testing. In addition, we will discuss common security practices in the software engineering framework. This class is targeted at both undergraduate and graduate students who have adequate background in computer science, computer engineering, or related areas. Students who successfully complete this course will be capable of effectively participating in software engineering activities.

Prerequisites

Undergraduate level CS 3100 Minimum Grade of C.

Students should be familiar with object-oriented programming languages such as Java, C/C++, C#, and/or etc.

Textbook(s)

Bernd Bruegge, Allen H. Dutoit, "*Object-Oriented Software Engineering: Using UML, Patterns and Java*", 3rd Edition. Publisher: Prentice Hall, Upper Saddle River, NJ, 2009; ISBN-10: 0136061257; ISBN-13: 978-0136061250

Microsoft MSDN, "*Writing Secure Code*", online resource.
(<http://msdn.microsoft.com/en-us/security/aa570401.aspx>)

Grading Policy

Grade	4110/6110
A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

Depending on the class average, curving maybe applied to grades.

Item	Weight
Homework	20%
Projects	20%
Midterm Exam	30%
Final Exam	30%

Tentative Exam Schedule (Subject to change)

1. Midterm Exam: Wednesday (Week 8)
2. Final Exam: TBA

Homework

There will be four assignments.

Projects

There will be one term-long research project. Students will form a team to work on the project. Each team will have up to 5 students. All students in the same team will get the same score.

Project reports will be submitted progressively. The tentative checkpoints are listed as follows.

Project	Checkpoints	Weight
Specification	Week 4	30%
Design	Week 8	30%
Implementation & Testing	Week 13	40%

Course Policy

1. Students are expected to attend all classes. If a class is missed for any reason, the student is responsible for finding out the material covered, any assignment and handouts given, and any other announcements made in the class (e.g., exam date).
2. Homework and project reports should be submitted by the corresponding due date and time. Late work will be penalized at 20% of its full credit per day. You

- may discuss homework assignments with classmates but all solutions must be original and individually prepared.
3. No make-up exam will be allowed except in cases of emergencies for which prior permission of the instructor must be taken.
 4. Cheating in an exam or an assignment (project, homework) can result in a grade of F in the course.

Students with Special Needs

Any students with disabilities or other special needs, who need special accommodations in this course, are invited to share these concerns or requests with the instructor as soon as possible.

Academic Integrity and Ethical Learning

1. Students must adhere to the "Academic Integrity" of the Code of Student Conduct in Wright State University.
2. The knowledge learnt from this class must never be used for unethical purposes.