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Spring 2-1-2004

CS 364.01: Software Engineering (Software Science)

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Computer Science 364
Software Engineering (Software Science)
3 credits

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Description:

This course is intended to be an investigation of the subject of software engineering in detail. In this course students will be exposed to a more detailed discussion of how large, complex software systems are developed. Along the way students will learn about a number of methodologies and tools currently being used in software development.

Format: Two classes per week.

Offered: Spring semester

Prerequisites: Consent of Instructor

Materials: Articles and text books:
Software Engineering (6th Edition) by Ian Sommerville
Publisher: Addison-Wesley Pub Co; 6th edition (August 11, 2000)
ISBN: 020139815X

Extreme Programming Explained: Embrace Change by Kent Beck
Publisher: Addison-Wesley Pub Co; 1st edition (October 5, 1999)
ISBN: 0201616416

Assessment of Student Performance: Homework (30%) / Midterm (30%) / Final Project (40%)

Meetings (2004): Tues/Thurs 11:10am-12:30am (SS 356)

Class Conduct:

Plagiarism on homework assignments, cheating on tests, use of inappropriate language (oral or written), or misuse of the computer facilities will not be tolerated. Offenders will be prosecuted to the fullest extent of the University Student Conduct Rules.

Lecture Outline:

Date	Topic	Required Readings and Other Info
Jan. 27, Tues.	Introduction to Software Engineering / Course Overview	<ul style="list-style-type: none"> • Sommerville, Chapter 1
Jan. 29, Thurs.	Software Processes	<ul style="list-style-type: none"> • Sommerville, Chapter 3 • Beck, Chapters 1-5
Feb. 3, Tues.	Project Management	<ul style="list-style-type: none"> • Sommerville, Chapter 4 • Beck, Chapters 6-9
Feb. 5, Thurs.	People Management	<ul style="list-style-type: none"> • Sommerville, Chapter 22 • Beck, Chapters 10-11
Feb. 10, Tues.	People Management (cont.)	<ul style="list-style-type: none"> • Sommerville, Chapter 22 • Beck, Chapters 12-14
Feb. 12, Thurs	Requirement Specification	<ul style="list-style-type: none"> • Sommerville, Chapter 5 • Beck, Chapters 16 • GROUP PROJECT TEAM ASSIGNMENTS & ROLES DUE
Feb. 17, Tues.	Requirement Specification (cont.)	<ul style="list-style-type: none"> • Sommerville, Chapter 6 • Beck, Chapters 16
Feb. 19, Thurs.	Requirement Specification (cont.)	<ul style="list-style-type: none"> • Beck, Chapters 15
Feb. 24, Tues.	Testing	<ul style="list-style-type: none"> • Sommerville, Chapter 19-20
Feb. 26, Thurs.	Testing (cont.)	<ul style="list-style-type: none"> • Sommerville, Chapter 19-20
Mar. 2, Tues.	XP	<ul style="list-style-type: none"> • Beck, Chapters 21-23 • REQUIREMENT SPECIFICATION DUE
Mar. 4, Thurs.	Architecture	<ul style="list-style-type: none"> • Sommerville, Chapter 10 • Beck, Chapters 17
Mar. 9, Tues.	Distributed Systems	<ul style="list-style-type: none"> • Sommerville, Chapter 11
Mar. 11, Thurs.	OO Design	<ul style="list-style-type: none"> • Sommerville, Chapter 12
Mar. 16, Tues.	Design with Reuse	<ul style="list-style-type: none"> • Sommerville, Chapter 14
Mar. 18, Thurs.	Testing Revisited	<ul style="list-style-type: none"> • Sommerville, Chapter 20 • Beck, Chapter 18 • Design Specification document DUE
Mar. 23, Tues.	Testing Revisited (cont.)	<ul style="list-style-type: none"> • Sommerville, Chapter 20 • Beck, Chapter 18

Mar. 25, Thurs.	Software prototyping and coding conventions	<ul style="list-style-type: none"> • Sommerville, Chapter 8 • Testing and Implementation Plan DUE
SPRING BREAK		
April 6, Tues.	XP Revisited	<ul style="list-style-type: none"> • Beck, Chapters 21-23
April 8, Thurs	Guest Lecture	<ul style="list-style-type: none"> • Careers in software engineering
April 13, Tues.	Real Time Architecture	<ul style="list-style-type: none"> • Sommerville, Chapter 13
April 15, Thurs	Design with Reuse Revisited	<ul style="list-style-type: none"> • Sommerville, Chapter 14
April 20, Tues.	Quality Management	<ul style="list-style-type: none"> • Sommerville, Chapter 24
April 22, Thurs	Quality Management (cont.)	<ul style="list-style-type: none"> • Sommerville, Chapter 24
April 27, Tues.	Software Cost	<ul style="list-style-type: none"> • Sommerville, Chapter 23
April 29, Thurs	Software maintenance	<ul style="list-style-type: none"> • Sommerville, Chapter 25-26
May 4, Tues.	Software maintenance (cont.)	<ul style="list-style-type: none"> • Sommerville, Chapter 27
May 6, Thurs.	Guest Lecture	<ul style="list-style-type: none"> • How to success as a software engineer
May 11, Tues.	Demos	
May 13, Thurs.	Demos	<ul style="list-style-type: none"> • Final project documentation DUE