Course CSC 532 - Advanced Topics in Software Engineering

Description/G	ioals This course is a graduate level reading/research oriented-
	class in software engineering. Students will not only learn currently
	well-know methodologies but also will (hand-on) experience with
	currently state-of-art software engineering processes and tools.
	Following selected research topics of current interests in software
	engineering will be studied: (1) Service Engineering/management
	process; (2) software engineering tools (IDE, configuration/build);
	(3) software metrics ; (4) component-based software engineering;
	(5) reliability software engineering & Verification; (6) formal
	specification techniques; etc.
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PrerequisitesCSC 230 or consent of instructorTime & RoomT-TH 8 - 9:50, Nethken 105Office HoursM-F 1-3:30pmCourse URLhttp://www.latech.edu/~box/aswengr.htmInstructorDr. Chokchai (Box) Leangsuksun, box@latech.edu (318) 257-3291GraderTBATexts

- 1. Scott Kendall, Unified Process Explained, The, 1/e, ISBN-0-201-74204-7
- Wake C. William, Extreme Programming Explored, 1/e,ISBN-0-201-73397-8 (optional)
- In addition to materials from the above main textbooks, I'll provide more references (URL or some books) when we discuss on some particular topics in the research/term projects.

Evaluation

Term Project	35%
Research Paper	15%
Examinations	35%
Class Participation	5%
Class Assignments/Presentations	10%

PEER & Presentation EVALUATION:

• Peer evaluations will be performed on the final day of the class or team assignment due date.

- These evaluations will be confidential and will be used in computing an individuals participation score (30% of course team assignment credit).
- Click here for the evaluation form.
- Presentations will be graded using this grade sheet.

Grading

Percentage points	Grade
92 and above	Α
80 - 91	В
70 - 79	С
60 - 69	D
< 60	F

Projects See the class handout

Research Papers/presentations

Schedule will be announced later

Other Policies:

- "Students needing testing or classroom accommodations based on a disability are encouraged to discuss those needs with me as soon as **possible.**" (Refer students who do not present an accommodations memo from the Office of Disability Services to that office or to <u>www.latech.edu/ods</u> for assistance.
- Academic Honor Code (<u>http://www.latech.edu/documents/honor-code.pdf</u>).

In accordance with the Academic Honor Code, students pledge the

following: Being a student of higher standards, I pledge to embody

the principles of academic integrity.

 "Emergency Notification System: All Louisiana Tech students are strongly encouraged to enroll and update their contact information in the Emergency Notification System. It takes just a few seconds to ensure you're able to receive important text and voice alerts in the event of a campus emergency. For more information on the Emergency Notification System, please visit http://ert.latech.edu.

Date	Topics
	Class syllabus, Introduction & EKG example
	Intro to real-world software development & Unified Process
	Intro to OO in UML flavor, what's expected from Project plan and Term Paper & Project plan template
	Intro to OO in UML flavor and <u>quick UML ref guide from</u> Rational
	Chapter 2 Requirement workflow and suggested term paper topics and timeline sample1 & sample2 Requirement

Class Materials

	document template.
	Chapter 3 Analysis workflow
	Chapter 3 Analysis workflow (continued)
	Chapter 4 Design workflow and assignment 1 handout
	Deployment Diagram
	Change & Configuration Management
	Chapter 5 Implementation workflow & (continued), build tools, make sample and decision/assessment for readiness in software, ANT, and its sample
Oct 10, 2013	Mid term exam
	Interface review and discussion among team
	Interface review and discussion among team Chapter 6 test workflow, Acceptance & Defect Criteria and CVS homework # 3 (Make and CVS/SVN)
	Interface review and discussion among team Chapter 6 test workflow, Acceptance & Defect Criteria and CVS homework # 3 (Make and CVS/SVN) Chapter 7 Supporting Workflow
	Interface review and discussion among team Chapter 6 test workflow, Acceptance & Defect Criteria and CVS homework # 3 (Make and CVS/SVN) Chapter 7 Supporting Workflow Software metrics
	Interface review and discussion among team Chapter 6 test workflow, Acceptance & Defect Criteria and CVS homework # 3 (Make and CVS/SVN) Chapter 7 Supporting Workflow Software metrics Quantify non-functional requirement metrics
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	Interface review and discussion among team Chapter 6 test workflow, Acceptance & Defect Criteria and CVS homework # 3 (Make and CVS/SVN) Chapter 7 Supporting Workflow Software metrics Quantify non-functional requirement metrics <u>Students' presentations</u> More case studies

Code of Honor

No Cheating! Please review Dr. Phoha's Policy on Plagiarism for your writing guideline. **News**