

# Software Engineering II (Spring 2007)

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**Class Time:** Mondays and Wednesdays 7:30 PM – 8:45 PM  
**Office Hours:** Mondays and Wednesdays 5:45 PM – 7:15 PM

**Prerequisites:** EEL 5881 or equivalent and/or instructor consent

## Textbooks:

1. Software Engineering, Volume 1: The Development Process, Ed. by Richard H. Thayer and Mark J. Christensen, 3rd Edition, *IEEE Computer Society Press*, 2005.
2. Software Engineering, Volume 2: The Supporting Processes, Ed. by Richard H. Thayer and Mark J. Christensen, 3rd Edition, *IEEE Computer Society Press*, 2005.



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## Reference Books:

1. Linda M. Laird and M. Carol Brennan, *Software Measurement and Estimation: A Practical Approach*, Wiley-IEEE Computer Society Press, July 2006.
2. J. Fernando Naveda and Stephen B. Seidman, *IEEE Computer Society Real-World Software Engineering Problems: A Self-Study Guide for Today's Software Professional*, Wiley-IEEE Computer Society Press, July 2006.
3. Jeff Tian, *Software Quality Engineering: Testing, Quality Assurance, and Quantifiable Improvement*, Wiley-IEEE Computer Society Press, February 2005.
4. Donald J. Reifer (Editor), *Software Management*, 7th Edition, Wiley-IEEE Computer Society Press, August 2006.
5. Nazim H. Madhavji (Editors), *Software Evolution and Feedback: Theory and Practice*, Wiley-IEEE Computer Society Press, June 2006.
6. Martin Fowler, *UML Distilled: A Brief Guide to the Standard Object Modeling Language*, 3rd Edition, Addison-Wesley, 2004.
7. Stephen R. Schach, *Object-Oriented and Classical Software Engineering*, 7th Edition, McGraw-Hill, 2006.
8. Ian Sommerville, *Software Engineering*, 7th Edition, Addison Wesley, 2004.
9. F.P. Brooks, Jr., "The Mythical Man-Month: Essays on Software Engineering, Addison-Wesley, Reading, MA, 1975. Twentieth Anniversary Edition, Addison-Wesley, Reading, MA, 1995.



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## Course Objectives:

The course is designed for advanced level graduate students. The course objectives are to provide the students with an:

- understanding of current current software engineering theory and practice through research publications
- opportunity to work in a group environment on a project
- experience on reading and writing research papers

## Course Description:

Continuation of EEL 5881. This course emphasis more on the term projects and case studies.

## Project:

Students will work in teams of two to do an in-depth study of some subject generally relevant and appropriate to the theme of this course. At the end of the semester, each team will submit a professional-quality conference-style paper on the selected topic

## Grading Scheme:

- Individual or group project (max. 2 students) => 30%
- Presentations => 25%
- Assignments => 15%
- Exam 1 => 15%
- Exam 2 => 15%

