CS 5213 Software Engineering Processes
Fall 2010 Syllabus

General Information
Professor: John K. Antonio, antonio@ou.edu, 325-4397, DEH 232
Office Hours: Mon, Tue, Wed, Thurs; 10:30 to 11:30

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Office Hours: Tue, Thurs; 9:30 to 10:30

Description
This course introduces state-of-the-art software engineering processes, including software requirements specification, planning, design, documentation, development, review, defect tracking, testing, product delivery, and product evaluation. Mimicking real-life work environment, students work in teams to design, develop, and evaluate software products using open source software engineering tools.

Textbook

Supplemental Material (not an exhaustive list)

Tools (not an exhaustive list)
- JUnit: [http://www.junit.org/](http://www.junit.org/)

Workload and Grading

Project
The major activity in the class is participation in a project to develop a software web application for use by Faculty, Staff, and Administration in OU’s College of Engineering. Throughout the lifecycle of this project, students will have the opportunity to serve on different teams and gain experience in different roles within each team. A team is made up of five to eight members, and the responsibilities of each team, as well as its membership, may change throughout the software development process. The project will go through several process phases, including:

- Project proposal
- Requirement analysis
- System specification
- Architecture design
- Construction
- Product demonstrations
- User testing
- Evaluation
Note that the processes are not of equal length, and some processes may go through multiple iterations. Furthermore, some processes may overlap. Each process requires appropriate reporting and/or presentations.

**Reading and Quizzes**
Students will be given assigned readings from the text and/or other sources and will be given short quizzes covering the reading assignments.

**Class Participation**
All students are expected to attend the lectures and actively participate in class discussions.

**Final Exam**
A final written and/or oral exam will be used to test student’s understanding of learned knowledge.

**Course Grade**
The above components are weighted to compute the course grade as follows.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Project</td>
<td>50%</td>
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<tr>
<td>Reading and Quizzes</td>
<td>20%</td>
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<tr>
<td>Class Participation</td>
<td>10%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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</tbody>
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**Course Policies**

**Scholastic Conduct**
Any academic misconduct will be documented and handled immediately, including the involved students being admonished or being reported to the Campus Judicial Coordinator. The procedure to be followed is in the University of Oklahoma Academic Misconduct Code ([http://studentconduct.ou.edu/](http://studentconduct.ou.edu/)). Students have the right to appeal an admonishment ([http://www.ou.edu/provost/integrity-rights/](http://www.ou.edu/provost/integrity-rights/)).

**Teamwork Issues**
The workloads of teams are expected to be evenly distributed among the members. One will risk losing all or part of the project grade if he does not make a fair contribution.

**Incomplete**
Due to the teamwork nature of this course, a grade of Incomplete cannot be granted.

**Accommodation Policy**
Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact the instructor personally as soon as possible so that necessary accommodations can be discussed to ensure full participation and facilitate the student’s educational opportunities.

**Regarding Instructor Evaluation**
The College of Engineering utilizes student ratings as one of the bases for evaluating the teaching effectiveness of each of its faculty members. The results of these forms are important data used in the process of awarding tenure, making promotions, and giving salary increases. In addition, the faculty uses these forms to improve their own teaching effectiveness. The original request for the use of these forms came from students, and it is students who eventually benefit most from their use. Please take this task seriously and respond as honestly and precisely as possible, both to the machine-scored items and to the open-ended questions.