**Instructor:**
Dr. M.E. Fayad  
Computer Engineering, College of Engineering, San Jose State University

**Web page:** [http://www.engr.sjsu.edu/fayad](http://www.engr.sjsu.edu/fayad)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Software Engineering Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
<td>CmpE 203</td>
</tr>
<tr>
<td>Sections</td>
<td>01</td>
</tr>
<tr>
<td>Class Hours &amp; Location</td>
<td>Section 01: Tuesday 6:00 p.m. to 8:45 p.m., ENGR 395</td>
</tr>
</tbody>
</table>
| Office Hours       | Thursday: 3:30:00 p.m. – 6:00 p.m.  
|                    | Friday: 2:30 p.m. – 5:00 p.m.  
|                    | Other times: Send an e-mail to schedule an appointment. |
| Office Location    | ENG 2831                        |
| Office Phone       | (408) 924-7364                  |
| E-mail:            | m.fayad@sjsu.edu                |
| Preferred Contact  | Through e-mail                  |
| Department Fax     | (408) 924-4153                  |
| Course Web Page    | [http://www.engr.sjsu.edu/fayad/current.courses/cmpe203-Fall2010](http://www.engr.sjsu.edu/fayad/current.courses/cmpe203-Fall2010) |

2. **Course Description**

a. **Course Overview and Description:**
Many software projects are delivered late and over budget. These projects are often do not meet the intended requirements, have an unacceptable number of defects, and are not function properly. This course shows students how to manage software development projects to avoid large schedule and cost overruns, whether the software project is a small, large, or huge software project. The course is a pattern-oriented and it is based on stable pattern language for project management that includes practical techniques and tools to estimate, plan, lead, organize, control, and complete high quality software projects that are within budget and on time “meet the schedule”, and that satisfy the needs of the customer. Students are encouraged to bring real project management problems to class for analysis and discussion.

Software Engineering Management provides an overview of the roles, responsibilities, and management methods of software development projects. The course assumes no prior knowledge in management techniques and is intended to teach students how to develop approaches and styles of management for software development projects. "Intensive coverage of management in a wide range of software project applications from concept through operations. Planning, scheduling, controlling, economic analysis, quality control and customer satisfaction are stressed in this course". The course assumes a basic understanding of analysis and design techniques.

b. Prerequisites: instructor consent.

c. Required Textbooks:


3. SWEBOK is an official service mark of the IEEE

http://www.swebok.org/


Any book is fine.

d. Supporting Text


Required Articles, Columns, Case Studies, and Patterns will be posted on the web later. Materials will be provided for each lecture (check Weekly Schedule).

Other Resources: Instructor notes will be available on the course web page.

e. Course Learning Objectives
   A. To provide students with a clear understanding of the unique risks, issues, and critical success factors associated with managing software projects through patterns,
   B. To introduce students to the role and function of project management and successfully manage software-intensive projects and avoiding common project management mistakes.
   C. To understand the various techniques for planning and managing software projects that include metrics to support planning, estimation, and control, and the importance of new software development and management models.
   D. To recognize the key factors to prevent software project failure and deal with emerging management issues, such as rapid prototyping, object-oriented approaches, software stability, knowledge maps or stable pattern language, software patterns, COTS software, reuse-driven approaches, reengineering, web development, outsourcing, partnering, moving software abroad.
   E. The course is a team-oriented course with individual evaluation during the duration of the class.

3. Course Requirements

a. Projects (per team of two or three members -- Refer to Project Requirements)

The class will be divided into groups of 3 (three) for a team project. Students will be responsible for forming groups. Grading criteria and project ideas will be posted in a project Web page. The final submission of this project includes a full report and a memo.

• On occasion, students take advantage of group work, letting other members perform the bulk of the work while they reap the benefits of a good grade and can spend more time on other classes. This happens only occasionally, but it will not be tolerated in this course. The team must divide the work load of any of the projects equally between themselves and each member should be responsible for his/her own parts. During submission each member should write his or her name on his or her parts of the final submission.

• Groups experiencing problems with a student should let me know there's a problem with his team. Do this early enough in the semester. My experience is that group members wait until it's too late to take action. My objective is to ensure that each group member has the opportunity to succeed. I will handle the situation and ensure there is no animosity while resolving the problem. Usually, a brief discussion will clear the matter up entirely and without further problems.

b. Individual Assignments (Refer to Assignments’ Requirements)
c. Exams: Two exams. **There will be no make up tests.**

d. Extra Assignment (Per individual)

e. Practical Problems – Check practical problems’ requirements

4. Tentative Course Calendar:

a. Weekly Schedule - See weekly schedule on the course webpage

b. Due Dates: See Due Dates on the course webpage

**Important:**

Late assignments, extra assignments, practical problems, and essays are **NOT ACCEPTABLE.** In this case, the grade of any late submissions of assignments, extra assignments, practical problems, and essays will be assigned a “zero” mark. See Due dates on the course webpage.

**Please read carefully:**

If you accept an assignment (extra assignment, optional assignments), you must do it otherwise you will lose an equal weight of the grade of the assignment.

5. Grades:

a. Grading Policy

Your grade in this course will be based on your performance on written homework, test, and team projects.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Team Project</td>
<td>30%</td>
</tr>
<tr>
<td>Indiv. Assignment 01</td>
<td>15%</td>
</tr>
<tr>
<td>Indiv. Assignment 02</td>
<td>15%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>15%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

**Options:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra Points</td>
<td>05%</td>
</tr>
<tr>
<td>(Extra Assignment, practical problems)</td>
<td></td>
</tr>
</tbody>
</table>

| **Total** | **105%** |

**NOTES:**

[1] Exceptional work on one or more of your projects or your assignments will be awarded between 1 to 10 whole points and it will be only awarded with complete submissions of all of your projects, assignments, and exams.
[2] If your final grade is greater than your midterm grade, your final grade will replace your midterm grade.

**Final Grades:**  
Letter grades will be assigned at the end of the course. Final grades will be based on a competitive curve. Graduate and undergraduate students are graded separately. Students will be informed of their standing at intervals throughout the course. Final grades are not negotiable. Unless there are mathematical errors, I will be unavailable to discuss final grades. Borderline cases will be considered with extreme care, and fair grades will be rendered.

**b. Extra Credit Options:**  
1. Practical problems (all) solutions must be submitted on time with good effort will be graded for whole 2 ½+ points.  
2. Extra assignment #5 (Optional) Individual assignment, if completed on time, it will be graded for whole 10+ points.  
3. Other Extra Assignments will be graded for whole 2 ½+ points.

**c. Penalty for Late or Missing Work:**  
1. No credits for late assignments and projects  
2. No credits for late extra assignments  
3. If you sign for extra assignment #5 and don’t deliver, you will be penalized for an equal numbers of awarded grade points.  
4. No credits will be given for late submission of practical problem solutions  
5. If you sign for other extra assignment and don’t deliver, you will be penalized for an equal numbers of awarded grade points.  
6. Failure to use the submission guidelines three times, you will be panelized for a one (1) whole grade point and block your name from the electronic mails.  
7. Avoid misusing the e-mail system, you may be panelized.

**6. University, College, or Department Policy Information:**

**a. Policy on Cheating:**  
- A student or students involved in a cheating incident involving any non-exam instrument (homework, extra assignments, practical problems, reports, or team projects or individual projects) will receive an F on that instrument, and will be reported to the judicial affairs office. Whether the report will carry a recommendation for disciplinary action will be left to my judgment.  
- A student or students involved in a cheating incident on any quick test, the midterm exam or the final exam will receive an F in the course, and will be reported to the judicial affairs office with a recommendation for disciplinary action.
I will personally notify you of any such findings or actions. All such reports will also be brought to the attention of the computer engineering department office. You have certain rights of appeal, which may serve to exonerate you.

Check:

**Academic integrity statement (from Office of Judicial Affairs):**
“Your own commitment to learning, as evidenced by your enrollment at San José State University and the University’s Academic Integrity Policy requires you to be honest in all your academic course work. Faculty are required to report all infractions to the Office of Judicial Affairs. The policy on academic integrity can be found at [http://www2.sjsu.edu/senate/S07-2.pdf](http://www2.sjsu.edu/senate/S07-2.pdf)

For your reference, the policy defines **academic dishonesty** as follows (please note the very low tolerance definition of plagiarism):

1.1 **CHEATING**

San José State University defines cheating as the act of obtaining or attempting to obtain credit for academic work through the use of any dishonest, deceptive, or fraudulent means. Cheating includes:

1.1.1. Copying, in part or in whole, from another’s test or other evaluation instrument including homework assignments, worksheets, lab reports, essays, summaries, quizzes, etc.;

1.1.2. Submitting work previously graded in another course without prior approval by the course instructor or by departmental policy;

1.1.3. Submitting work simultaneously presented in two courses without prior approval by both course instructors or by the department policies of both departments;

1.1.4. Using or consulting sources, tools or materials prohibited by the instructor prior to, or during an examination;

1.1.5. Altering or interfering with the grading process;

1.1.6. Sitting for an examination by a surrogate, or as a surrogate;

1.1.7. Any other act committed by a student in the course of their academic work that defrauds or misrepresents, including aiding others in any of the actions defined above.

1.2 **PLAGIARISM**
San José State University defines plagiarism as the act of representing the work of another as one's own without giving appropriate credit, regardless of how that work was obtained, and submitting it to fulfill academic requirements.

Plagiarism includes:

1.2.1 Knowingly or unknowingly incorporating the ideas, words, sentences, paragraphs, or parts of, or the specific substance of another's work, without giving appropriate credit, and representing the product as one's own work;

1.2.2 Representing another’s artistic/scholarly works such as musical compositions, computer programs, photographs, paintings, drawing, sculptures, or similar works as one's own.

b. Campus policy in compliance with the Americans with Disabilities Act:

Students with disabilities who would need some kind of accommodation should make that known to the instructor:

“If you need course adaptations or accommodations because of a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities register with DRC to establish a record of their disability.”

c. Right to Privacy:

You will retain a right to privacy. I will not knowingly reveal your grades, student ID number, phone number, address or other private information to others, except within the limits of university policy. I will ask that you supply your first name, last name and last four digits of your SID on written homework or tests. The grader system requires that you supply the first five digits of your SID as a password. Grader permits you to access your own grade records and your standing in the class online, but no other person’s grade records or personal data.

Hand In:

All homework assignments and projects need to be typed and handed in as hardcopies and electronically. You also need to demonstrate Projects to the instructor. Handwritten extra assignments and projects are not acceptable and we receive a “zero” mark. Check submission guidelines.

Class Webpage: http://www.engr.sjsu.edu/fayad/current.courses/cmpe203-Spring2011 contains the syllabus, some of the homework and lecture notes, and occasional notices.