COURSE DESCRIPTION
This course aims to enhance students’ skills with practical experience giving them the opportunity to integrate knowledge accumulated in different courses. At the end of this course, students must deliver a product with a major software component that has passed through the design, analysis, implementation, testing, and evaluation stages. Prerequisites: CMPS 253, CMPS 272, CMPS 277, and Senior standing.

LEARNING OUTCOMES
At the end of this course students should be able to:
• Demonstrate the ability to develop creative and original solutions to problems of significant complexity
• Develop and present a project plan making best use of latest information technology
• Modularize project into work packages and identify resources required to complete work packages
• Prioritize and modify project plan on a continuous basis
• Produce a substantial project outcome, which demonstrates a significant level of difficulty and effort on the part of each project member
• Produce a working software along with the appropriate documentations
• Demonstrate the ability to work effectively in a team

TEXTBOOKS:
Textbook(s) might be recommended by the course instructor.

COURSE POLICIES
Attendance
When applicable, class attendance is mandatory. In some cases, no classes will be held. Classes will be replaced with one-on-one meeting(s) with the course instructor. Also, some classes might be replaced with seminars given by other faculty or industry pioneers. Students who miss classes excessively will be dropped from the course.

Grading Criteria
A breakdown of the final grade for the course is given as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Software/Project requirements</td>
<td>10%</td>
</tr>
<tr>
<td>Software/Project design</td>
<td>10%</td>
</tr>
<tr>
<td>Mid-semester checkpoint</td>
<td>15%</td>
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<tr>
<td>Weekly tasks (team work)</td>
<td>15%</td>
</tr>
<tr>
<td>Final software/project documentations</td>
<td>20%</td>
</tr>
<tr>
<td>Final software/project delivery and presentation</td>
<td>30%</td>
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</tbody>
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The timeline of the aforementioned deliverables are set upon the consent of the instructor. The instructor has the right to modify the grading criteria based on her/his own judgment.
**Project Documentations**
Students are required to present progress reports to their course instructor. Final documentations must include details about all the phases and building blocks of the project, as well as a user manual (if applicable).

**Project Delivery and Presentation**
At the end of the semester, each group must deliver the following project outcomes:

1. A short promotional (trailer) video, typically 1 to 2 minutes long
2. A group presentation describing the project aims, the work done to achieve these aims and the project outcomes
3. A demonstration of the final product (where applicable)

**TENTATIVE SCHEDULE**
At least twice during the semester, one or more lectures will be dedicated for students to present their project progress. The other lectures will either be a seminar or a one-on-one meeting with the project supervisor (course instructor).

**Note for Special Needs Students**
If you have documented special needs and anticipate difficulties with the content or format of the course due to a physical or learning disability, please contact the course instructor and/or your academic advisor, as well as the Counseling Center in the Office of Student Affairs (Ext. 3196), as soon as possible to discuss options for accommodations. Those seeking accommodations must submit the Special Needs Support Request Form along with the required documentation.