**CMPS 4908 Senior Project II**

**Catalog Description**

**CMPS 4908 Senior Project II (2)**

This is the completion phase of the project. The student(s) will present a project report to the entire class, explaining the nature of the work, the finished product, and its relationship to the field. Prerequisite: Upper-division standing and CMPS 4902.

**Prerequisites by Topic**

The students should have done almost all intermediate level courses and some advanced courses, and have ability to work on substantial project.

**Units and Contact Time**

2 semester units (100 minutes) for discussions, presentations, seminars/invited speeches.

**Type**

Required for CS

**Required Textbook**

**None**

**Coordinator(s)**

Huaqing Wang

**Student Learning Outcomes**

CMPS 4908 is the second part of 2-semester class, and will complete the project implementation, emphasizing the problem analysis and problem-solving abilities. In this 2-semester class, student will do the followings:

* Students will work as teams.
* Look for a problem, analyze the problem, apply the knowledge of computer science areas and propose a solution to the problem.
* Analyze the possible solution and discuss the solutions with class.
* Plan the project such as timeline, individual responsibility, and milestones of the project.
* Presentations of the finalized the problems to solve, and the proposed solutions to the class.
* Implementations of projects. Teams work on their projects, discuss faculty with their projects.
* Class meets during the project implementation period and teams present their implementations difficulties/problems, solutions, share their experiences, and listen for suggestions from others.
* At the end of project implementation, each team will present the finished project to the class and a final written report.

During the project’s problem description, design and implementation, the students will

* Orally present their projects to the class at least 3 times. Students will see different projects and different solutions others used.
* Write down problem description, design, and implementation processes, especially the problems/difficulties and possible ways of solutions during whole process. A final written report will be given to the instructor.
* The instructor may invite professionals to give seminars on specific topics on software designs and implementations.

**ABET Outcome Coverage**

**3b. An ability to analyze a problem, and identify and deﬁne the computing requirements and**

**speciﬁcations appropriate to its solution.**

**3c. An ability to design, implement and evaluate a computer-based system, process, component,**

**or program to meet desired needs.**

**3d. An ability to function eﬀectively on teams to accomplish a common goal.**

**3h. Recognition of the need for and an ability to engage in continuing professional development.**

**3k. An ability to apply design and development principles in the construction of software systems**

**of varying complexity.**

**Lecture Topics and Rough Schedule**

See **Student Learning Outcome.**

**Prepared By**

Huaqing Wang on [date]

**Approval**

Approved by CEE/CS Department on [date]   
Effective [term]