

CS-461  
Senior Project

Objectives:

The students will develop a software/hardware product that can or will be used by an independent user.

Demonstrate written and oral communication skills.

Demonstrate knowledge in the core computer science curriculum.

Method of Assessment:

The student will accomplish the project by:

- Writing a specifications document

- Writing a prototype software project

- Implementing the proposed project

- Tracking changes back to the original specifications

The student will demonstrate their computer science knowledge by taking an exam that will cover selected material from the core computer science curriculum. This includes, but is not limited to CSCI-121, CSCI-122, CSCI-221, CSCI-222, CSCI-365, CSCI-321, CSCI-323, CSCI-322, and CSCI-324. This exam will be given during the final exam period for this class during the week of December 14<sup>th</sup>, 2009.

Attendance:

Attendance is required at all class meetings and presentations.

Expectations:

The student will select a faculty mentor to work with throughout the semester. The faculty member will have a background in the selected project area.

The student is expected to meet with the faculty for an hour per week at an arranged time convenient for both. This time will be used for project selection, project approval, resolution of coding problems, and other issues if they arise. The student will give the instructor a written weekly progress report.

There will be PowerPoint presentations to the faculty of the Computer Science Department throughout the semester. Students will turn in an electronic copy of their PowerPoint presentation and other documents as outlined in the individual assignment. In addition after the final presentation each student group will turn in an electronic version of their project and written instructions for installation.

Project Selection:

Students need to select a project that could or will be used by an independent user. The project should be a software/hardware solution and the choice of environments should be one where they are comfortable. The project select must be approved on or before 8/29/08.

Presentation 1 – Due 9/2/09. The purpose of this presentation is to inform the rest of the CS faculty of your intended project. Include the intended user, the problem you are trying to solve, and the scope of the project. The abstract is due.

Presentation 2 – Due 9/16/09. The purpose of this presentation is to give the rest of the CS faculty a detailed look at what your project is. The Specification Document is due.

Additional Presentation Dates will be established at a later time.

#### Grading:

This semester Dr. Nicholas Coleman is the instructor of record for the course. Your grade in the course is a collective collaboration of the members of the CS Department based on the following.

Grades will be determined by:

- Attendance

- Weekly progress reports and meetings with the selected mentor faculty

- Specification Document

- Presentations

- Revision Report

- Project Completion

- Final Exam: This exam will be graded as a Pass/Fail exam. You must pass the exam to pass the class. The passing grade will not be used as part of the final grade in the course.