

CS492 Senior Capstone II

Course Syllabus

Spring 2005

Introduction

The purpose of this course is to complete the implementation and testing of your senior project. We will focus on a variety of topics including design/code reviews, technical writing and presentation skills. We will also discuss issues such as ethics, professionalism, and intellectual property. This course is the culmination of your CS experience at Pacific. As such, you are expected to devote much time and effort to this class.

Aim

The goal of this course is to help you complete your senior project and help you share your success with the rest of campus on senior projects day.

Objectives

During this course you will

- Learn, understand, and appreciate the process of developing software.
- Learn how to critically analyze and test your project.
- Learn techniques for writing efficient and correct code.
- Learn about issues that come up in software development such as ethics and group work.
- Practice presenting your ideas to others.
- Practice technical writing, specifically for writing an abstract of your project and a final report.
- Learn the benefits of testing code as you develop.
- Learn about the social, professional, and ethical issues involved in the use of computer technology.

We will also talk about careers and life after college. We will meet with graduates and discuss the different paths they have taken.

Topics

The topics covered in this course include:

- History of computer hardware, software, and networking
- Gender-related issues
- Making and evaluating ethical arguments
- Community values and the laws by which we live
- Codes of ethics, conduct, and practice
- Foundations of intellectual property
- Ethical and legal basis for privacy protection
- "Cracking" ("hacking") and its effects
- Social implications of computing & networks
- International issues
- Identifying and evaluating ethical choices
- The role of the professional in public policy
- Historical examples of software risks
- Copyrights, patents, and trade secrets
- Freedom of expression in cyberspace
- Team management

Instructor Details

Professor: Dr. Shereen Khoja
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Phone: (503) 352-2008
M 01.00 - 02.30 PM
Office Hours: W 02.00 - 03.30 PM
F 10.00 - 11.30 AM or by appointment

Course Basics

Course Title: CS492 Senior Capstone II
Prerequisite: CS490 Senior Capstone I with a grade of C or better
Meeting Times: MW 10.00 - 11.15 AM
One on one meetings with your professor will also be required
Location: Strain 101
Optional Textbooks: The Elements of Style by Strunk and White
Course Website: <http://zeus.cs.pacificu.edu/shereen/cs492/cs492.html>

Course Assessment

Grade Distribution

Design and implementation	50%
<ul style="list-style-type: none">• Design of modules• Implementation of modules• Completeness of project	
In-class discussions and demos	25%
<ul style="list-style-type: none">• Design reviews• Code reviews• Final demo of software• Final presentation• Senior projects day presentation• One-on-one meetings• Class participation	
Written reports	25%
<ul style="list-style-type: none">• Weekly logs• Report draft• Final report	

Percent Breakdown

88-90%	B+	92-100%	A	90-92%	A-
78-80%	C+	82-88%	B	80-82%	B-
68-70%	D+	72-78%	C	70-72%	C-
0-60%	F	60-68%	D		

Important Dates

11	February	Labor day holiday	Last day to add courses. Last day to drop courses with no record
21 - 25	March	Spring Break	
8	April	Last day to withdraw from courses	
20	April	Senior Projects Day (no class but you'll be presenting)	
11	May	Reading day	
22	May	Graduation!	

Course Policies

1. Assignments are to be turned in by the beginning of class on the day they are due. Absolutely no late assignments will be accepted. Some of the due dates for assignments will be set by your professor, others will be determined by your schedule. In either case, you are responsible for making your deadlines. More details and policies for setting your schedule will be discussed in class.
2. Your project completeness grade will reflect how well you implemented your project as planned. Unnecessary modifications to your project (e.g. eliminations of elements due to time) will severely penalize your grade.
3. If you are scheduled to lead a discussion or make a presentation, you must be in class. No exceptions.
4. The format of this class will not be a traditional lecture. I will expect you to participate and come to class prepared to talk about your project. Also, you will be expected to work independently. I will provide you with access to information, but many times you will be required to learn it on your own.
5. The cheating policy is defined in Pacific Stuff & the Pacific Catalog as well as the Academic Policy that each of you signed. Be sure you read this policy carefully. It will be extremely serious if you cheat during any point of your senior project. Copying others' work and failing to cite others' work are serious infractions.
6. No project may be work for which you receive any restitution, whether it be money or credit for another class.
7. The project will become the intellectual property of Pacific University at the end of the course sequence. Therefore, the project cannot be tied to any particular company.
8. Presentations will be peer reviewed.
9. A weekly log of your progress is required. Make a habit of documenting everything you do in a notebook along with any ideas or questions that occur to you. This will help you write your weekly status reports.
10. No exams will be given in this class.