CS492 Senior Capstone II

Course Syllabus

Spring 2007

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, testing, and 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 professionals in industry to 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
Email:	shereen@pacificu.edu
Office:	Strain 203C
Phone:	(503) 352-2008
Office Hours:	MW 10.00 - 11.30 AM
	W 01.00 - 02.00 PM 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:	TTh 02.25 - 03.40 AM
Location:	Strain 101
Optional Textbooks:	Writing for Computer Science by Justin Zobel
Course Website:	*http://zeus.cs.pacificu.edu/shereen/cs492sp07/cs492.h*

Course Assessment

Grade Distribution

Design and implementation   40%
- Design of modules (15 pts per module)

- Implementation of modules (25 pts per module)

- Completeness of project and following schedule (100 pts)

In-class discussions and demos   30%
- Updated schedule (30 pts)

- Design reviews (30 pts)

- Code reviews (30 pts)

- Final demo of software (100 pts)

- Practice presentations (60 pts)

- Senior projects day presentation (120 pts)

- Class participation and attendance (100 pts)

Written reports   30%
- Project abstracts (40 pts)

- Project blog (60 pts)

- Project manual (60 pts)

- Report draft (30 pts)

- Final report (100 pts)

Percent Breakdown

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

Important Dates

12	February	Last day to add courses. Last day to drop courses with no record
24	March - 1 April	Spring Break
9	April	Last day to withdraw from courses
25	April	Senior Projects Day
10	May	Reading day
19	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 your blog along with any ideas or questions that occur to you. This will help you write your weekly status reports.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.

11. You will be expected to take part in the Collegiate Learning Assessment. The Collegiate Learning Assessment (CLA) is a test designed to measure three essential college skills: analytical reasoning, critical thinking, and written communication. The 90-minute test is proctored and conducted online in one of Pacific's computer labs. (The exact time and place will be announced.) The results are private - only the individual student will have access to his or her individual score. However, students can compare their scores with those of Pacific seniors as a group, and with seniors from 120 colleges and universities across the nation. Participants will be entered into a drawing for a $200 iTunes gift certificate.