

CSE398 – Large Scale Software Development

Spring 2014 – 10:10-11:00 M/W – PL 112

Instructor:

Name: Assistant Professor Michael Spear
Contact: mfs409@lehigh.edu / (610) 758-3285
Office Hours: Tuesday 1:00-3:00 PM or by appointment (Location: PL 404b)
Additional office hours Fridays at 10:00 AM

Required Reading Materials:

The Inmates Are Running the Asylum: Why High Tech Products Drive Us Crazy and How to Restore the Sanity. Alan Cooper. ISBN-13: 075-2063326145 ISBN-10: 0672326140.

CourseSite:

Lecture slides, assignments, etc. will be available through <http://coursesite.lehigh.edu/>

Grading:

Out-of-class projects: 2 at 45 Points = 70%

In-class work: 10 at 3 points = 30%

You will be given ample time to solve each assignment. No late assignments will be accepted, unless an extension is coordinated with Professor Spear at least 24 hours before the assignment is due.

Final grades will be assigned according to the following distribution:

A	92-100	A-	90-91	B+	87-89	B	82-86	B-	80-81	C+	77-79
C	72-76	C-	70-71	D+	67-69	D	62-66	D-	60-61	F	00-59

Academic Integrity:

I expect you to write every line of code that you claim as your own in CSE398. This class will have some very blurred lines with respect to using others' work, as we will be learning from online tutorials, demos, and other resources that are intended to be copied and modified. In taking this course, you agree to conduct yourself ethically, and to strive for the highest levels of academic and professional integrity. The class is an experiment; dishonesty will cause the experiment to fail.

If you have questions about this policy at any point throughout the semester, ask. **It is not better to ask for forgiveness than to ask for permission** when your academic career is at stake.

Learning Outcomes:

After taking CSE 398, you will have a deep understanding of how to design and implement software systems that consist of multiple components and APIs, and which use multiple languages in their implementation.

Accommodations for Students with Disabilities:

If you have a disability for which you are or may be requesting accommodations, please contact both your instructor and the Office of Academic Support Services, University Center C212 (610-758-4152) as early as possible in the semester. You must have documentation from the Academic Support Services office before accommodations can be granted.

Respect Your Colleagues:

Lehigh University endorses The Principles of Our Equitable Community [http://www.lehigh.edu/~inprv/initiatives/PrinciplesEquity_Sheet_v2_032212.pdf]. We expect each member of this class to acknowledge and practice these Principles. Respect for each other and for differing viewpoints is a vital component of the learning environment inside and outside the classroom.

Schedule:

Week	Topics	Other Activities
Jan 19/21	Introduction / Course Roadmap Source Code Management Basic Web Services	Set up Linux on your Sandbox Disk
Jan 26/28	Node.js NoSQL (MongoDB)	In-Class #1 Due
Feb 2/4	JSON Google APIs	In-Class #2 Due
Feb 9/11	Extensibility Shared Objects Node extensions	In-Class #3 Due
Feb 16/18	Image Processing OpenCV	In-Class #4 Due
Feb 23/25	Speech Recognition CMUSphinx	In-Class #5 Due
Mar 2/4	TBD	Project #1 Due
Mar 9/11	No Class (Spring Break)	
Mar 16/18	<u>The Inmates Are Running the Asylum</u>	
Mar 23/25	TBD	In-Class #6 Due
Mar 30/ Apr 1	TBD	In-Class #7 Due
Apr 6/8	TBD	In-Class #8 Due
Apr 13/15	TBD	In-Class #9 Due
Apr 20/22	TBD	In-Class #10 Due
Apr 27/29	TBD	Project #2 Due