

# CMPS 48 :: Computer Science Project

## UCSB Computer Science, Spring 2019 -- Course Syllabus

- [Main](#)
- [Schedule](#)
- [Resources](#)
- [Project](#)
- [Groups](#)

## Announcements

- Welcome to the CS48 web site: <http://www.cs.ucsb.edu/~cs48/index.html>
- Sign up for [Piazza](#)
- Post to [Piazza](#) to ask for help or to help others.

## Course Description

CS 48 is about "programming in the large" - how to design, implement and test large programs. The emphasis is on learning by doing, and students will spend most of their time on problems related to their group projects (and less time on traditional homework assignments). Along the way, CS 48 will help you learn: the phases of a software project, and experience working in teams, basics of object-oriented analysis and design, including design patterns user interface principles and tips for satisfying clients automated system build and testing strategies, UML, version control and more ...

## Pre-requisite

Computer Science 32 with a grade of C or better.

## Course Goals

1. Students gain personal experience with each of the typical phases of a large-scale programming project, including requirements and domain analysis, system design, implementation, and testing.
2. Students gain experience working in groups to develop a reasonably complex software system.
3. Students learn object-oriented analysis and design principles and techniques.
4. Students learn to effectively implement and test object-oriented software systems.

## Course Specifics (S19 Edition)

### Class Times

Monday/Wednesday 2-3:15pm, Phelps 3526

### Discussion (Team/Tutor meetings)

Friday 11-11:50am (sec 07773) and 12-12:50pm (sec 07781), Phelps 3525

Note that your assigned section may change once we select teams...

Instructor:

[Chandra Krintz <ckrintz@ucsb.edu>](mailto:ckrintz@ucsb.edu)

Office: Department of Computer Science, HFH 2153

Office Hours: M/W 1-2pm and by appointment

Teaching Assistant and Reader:

TA: April Cai [<jcai00@ucsb.edu>](mailto:ajcai00@ucsb.edu)

Office hours: on-demand (send email), location: CSIL

TA: Nazmus Saquib [<nazmus@ucsb.edu>](mailto:nazmus@ucsb.edu)

Office hours: on-demand (send email), location: HFH 5112

Tutors (Team mentors): [Richa Wadasker](#), [Scott Chow](#), [Meredith Xu](#), and [Daniel Gamliel](#)

Office hours and mentoring during section and by appointment

## Required Text

Steve McConnell. *Code Complete*, 2nd Edition, Microsoft Press, 2004.

## Schedule of Lecture Topics

- Software development processes
- Software requirements (user stories and use cases)
- Software design
- Implementation, testing, and SWE Ethics

## Grading Policy

The course milestones for this quarter [can be found here](#).

Course grades will be calculated according to the following distribution of credit:

- 75 percent - Group project, with major components contributing as follows:
  - TA/tutor Progress Evaluation (weekly) (10%)
  - Draft Project (20%)
  - Project Demonstration (20%)
  - Final Project Turnin (writeup, draft project updates, retrospectives, stories, prototype implementation, extensiveness of testing) (30%)
  - Peer evaluation (20%). This is computed as the average grade point value given by yourself and your teammates. The default (if none given) is 4.0 and the max is 4.0. The standard grade point scale that we use is
    - A (or A+) 4.0
    - A- 3.7
    - B+ 3.3
    - B 3.0
    - B- 2.7
    - C+ 2.3
    - C 2.0
    - C- 1.7

- D+ 1.3
- D 1.0
- D- 0.7
- F 0.0
- 25 percent - In class quizzes (dates listed on Schedule page) covering previous lecture topics

**Letter grades will be assigned as follows:**

Score	Grade	Notes
≥ 93%	A	Exceptional scores may earn A+
90-92.9%	A-	Scores will be rounded to the nearest 0.1 percent
87-89.9%	B+	
83-86.9%	B	
80-82.9%	B-	
77-79.9%	C+	
73-76.9%	C	
70-72.9%	C-	
67-69.9%	D+	
63-66.9%	D	
< 63%	D-	

**Notes**

- Assuming no change to schedule, there will be no exams in CS 48 this quarter.
- The course's web pages (<http://www.cs.ucsb.edu/~cs48>) are mandatory reading. Students are *responsible* for monitoring them throughout the quarter.
- Be sure to read and understand all parts of the "Project Rules" web page (see link at top of "Project" page), especially the part about individual accountability.