

Computer Science 50 Programming Project

- Pre-requisites: CS 10 and CS 20
- Designed for CS pre-majors
- Basic theme: programming “in the large”
 - Includes working within a group
 - Focus is on object-oriented analysis (OOA) and object-oriented design (OOD)
 - Practice to implement/test large(r) systems

Individual part and group part

- Part 1 – learn about programming projects
 - Includes lectures, reading, homework, exam
 - Development Processes
 - Requirements Analysis
 - Domain Analysis
 - System Design
 - Implementation and Testing
- Part 2 – participate in a programming project
 - Complete 6 assignments as a group effort

About the group projects

- Group sizes: 3 or 4 people – no exceptions
 - Note: we will facilitate group formation this quarter
- Project topic: your choice, subject to approval
- Expected complexity:
 - 20-25 key concepts in the problem *domain*
 - Note: concepts are classes and interfaces in Java
 - Interesting relationships between the concepts
 - Lines of code will *not* be counted
 - But anticipate at least 5,000 lines of *well-written* code

Requirements

- You must monitor <http://www.cs.ucsb.edu/~mikec/cs50>
- Group project assignments – *50 percent* of grade
 - Posted on Project page – first assignment is already posted
- Meeting attendance/participation – *10 percent* of grade
 - Formal meetings with each whole group once per week (at least)
- Homework assignments – *15 percent* of grade
 - Handed out in lectures – must be own, personal work
- Exam – *25 percent* of grade
 - Wednesday, Feb. 17 – see required readings on the Syllabus page
- Questions?

Do *this* week

- Read chapters 1-4 and 40
 - In general, read ahead of the lectures
 - Future weeks: see syllabus for chapters to read
- Submit CS 50 student survey
 - Sooner the better, but n.l.t. Thursday, noon
- Attend lectures and *mandatory* 1st section
 - *Note: formal group/TA meetings will occur instead of discussion sections all future weeks*