

## CSC/ECE 517: Object-Oriented Design and Development

Spring 2024

CSC/ECE 517

SYLLABUS: HOMEWORK &amp; TESTS

## ANNOUNCEMENTS

## SYLLABUS

## COURSE SCHEDULE

## CALENDAR

## CLASS RECORDINGS

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## COURSE OVERVIEW

Object-oriented languages and systems built with object-oriented software components. Object-oriented design methodologies, such as CR...[More](#)

## INSTRUCTOR

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OVERVIEW

HOMEWORK &amp; TESTS

ACADEMIC INTEGRITY

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## Points

- Homework 400 pts.
  - Programs 320 points
    - GitHub Project exercise* 10 pts.
    - Ruby program* 30 pts.
    - Ruby on Rails program* 90 pts.
    - OSS project* 90 pts.
    - Final project* 100 pts.
  - Writing assignments 80 pts.
    - Writeup on OSS project* 40 pts.
    - Final project design doc.* 40 pts.
- Reviews 120 pts.
  - Teammate reviews (aggregate) 65 pts.
  - Peer reviews 60 pts.
  - [2 required for each of 3 peer-reviewed assgts.]
- Exams 360 pts.
  - Test 1 60 pts.
  - Test 2 120 pts.
  - Final exam 180 pts.
- Quizzes (5 pts. each) 70 pts.
  - Syllabus quiz
  - Fourteen weekly quizzes  
(Credit for a maximum of 14 of the above)
- Attendance (5 pts. per class for up to 9 classes) 45 pts.

Cutoffs for As, Bs, Cs, etc. will generally be 900, 800, 700, ... Cutoffs may be adjusted down by a few points if necessary so that students with essentially the same performance receive the same grade.

There will be copious opportunities for extra credit, with the stipulation that all activities for which extra credit is given must *help other students* to learn the course material--either students in the current CSC/ECE 517 class, or students in later classes. Examples of activities that can earn extra credit include--

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- doing extra peer reviews of programming or writing assignments or design documents (up to 6 extra reviews during the semester, up to 10 points per review),
- rating peer reviews that you have received for how helpful they are
- making outstanding contributions to answering other students' questions on the [Piazza](#) message board.

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## Descriptions

### GitHub Project Board exercise

0. A short exercise to familiarize you with how to use GitHub project boards

### Programs

**There will be four programming assignments.**

1. A Ruby programming assignment. You may work in a team of up to two students on this project.
2. A Ruby on Rails programming assignment. You may work in a team of up to three students on this project.
3. An assignment on contributing to an open-source software project. These projects will be done in groups of two or three.
4. The final project, which may be done in the same group as your OSS project, or by combining two 2-member teams from the OSS project. The number of students working on this project should be three or four. Before beginning to code, you will need to submit a design document, which will be peer-reviewed by other members of the class. After the project is complete, it will be demoed via screencasting, and live to instructor, TA, and someone from the staff of the project to which it relates.

### Writing assignments

During the semester there will be two peer-reviewed writing assignments. These assignments will be--

1. Writing about the design principles and design patterns used in your OSS project. The goal is to explain your design choices to someone who is not familiar with the code, but is familiar with design principles and patterns. Clarity is the most important quality of this writeup. You should discuss possible bad choices, with code-snippet examples, and show why the choices you made were better.
2. A design document for your final project.

### Teaming requirement

Each student is required to partner or team with a **minimum of 4** other students during the course. Each student who fails to partner with at least 4 other students will lose 20 points for each student short of four with whom (s)he partners. Be careful to partner with a variety of students early in the semester, since you may want to stay on the same team for the last two programming assignments.

### Tests

Two 120-minute midterm tests will be given at roughly equal intervals during the semester.

### Exam

The 150-minute final exam will be worth 180 points. It will be cumulative, but at least half of the points will be based on material covered after the second test.

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### **Late or Missed Assignments**

Late programs will be penalized at the rate of 10% per day, each day that classes are in session, whether or not our class meets on that day. Exceptions will be made only for medical reasons.

Missed assignments and exams will be assigned a score of 0 and cannot be made up without an official university excuse. Contact me as soon as possible if you need to discuss reasons for late or missed assignments or exams.

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### **Posting of grades**

The [Webassign](#) gradebook will be used to post grades.

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