CS 202: Advanced Operating Systems

Course Personnel
- Instructor: Cong Liu, congl@ucr.edu
  - Office hours: please check the course website
- Teaching Assistant info: please check the course website

Catalog Description
This graduate-level course examines recent developments in operating systems.

Grades
- Canvas/eLearn (https://elearn.ucr.edu/)

Textbook
No primary textbook. For undergraduate material, please refer to: Operating Systems: Three Easy Pieces, Remzi H. Arpaci-Dusseau and Andrea C. Arpaci-Dusseau (https://pages.cs.wisc.edu/~remzi/OSTEP/)

Paper Reading and Critiques
Before each class, students need to check the schedule and read required papers (and are also encouraged to read the optional materials as well), and write a critique for the one marked as "critique".

Critique is an **individual** assignment. Do not collaborate with other students, especially when writing. Do not copy and paste directly from papers; that will be considered plagiarism.

Lab Assignments
There will be 3 project assignments based on XV6 (https://pdos.csail.mit.edu/6.828/2022/xv6.html). The projects will be done in **groups** (three members per group recommended). Each assignment must be accompanied by a written report on a group basis (i.e., a single report per group).

Discussion of assignments with the instructor and/or students is encouraged. However, collaboration among students of different groups will be viewed as cheating (e.g., two groups working together and submitting the same code). Please read the academic integrity session and consult with the instructor if you are unsure.

Guidelines on creating demo video recordings can be found here.

Exams
A midterm and a final exam are given to assess students' understanding of the papers and concepts discussed in the class.

Late Submission Policy
A penalty of **10%** per day (including Saturday and Sunday). Late submissions after 2 late days will not be accepted. This applies to both critiques and projects.

Grading

- Class participation and paper critiques: 20%
- Lab assignments: 40%
- Midterm: 20%
- Final: 20%

While lower cutoffs may be used, the following grade cutoffs are guaranteed: A (incl. + and -) for 90's, B for 80's, C for 70's, D for 60's, and F for less than 60.

Academic Integrity

(Taken from Academic Senate Policies: www.senate.ucr.edu)

At UCR, honesty and integrity are fundamental values that guide and inform us as individuals and as a community. The academic culture requires that each student takes responsibility for learning and for producing work that reflects their intellectual potential, curiosity, and capability. Students must represent themselves truthfully, claim only work that is their own, acknowledge their use of others' words, research results, and ideas, using the methods accepted by the appropriate academic disciplines and engage honestly in all academic assignments. Misunderstanding of the appropriate academic conduct will not be accepted as an excuse for academic misconduct. If a student is in doubt about appropriate academic conduct in a particular situation, he or she should consult with the instructor in the course to avoid the serious charge of academic misconduct.

Cheating

Examples include but are not limited to:

- copying from another student's examination, quiz, laboratory work, or homework assignment
- allowing others to conduct research or to prepare work for you
- submitting for academic advancement an item of academic work that you have previously submitted for academic advancement
- looking at cell phone or laptop during exam

Plagiarism

Includes the copying of language, structure, or ideas of another and attributing (explicitly or implicitly) the work to one's own efforts. Plagiarism means using another's work without giving credit. Examples include but are not limited to:

- copying information from computer-based sources, i.e., the Internet
- allowing another person to substantially alter or revise your work and submitting it entirely as your own

This policy applies, in all respects, to CS 202.