CS452/CS552: Operating Systems
Spring 2021

Contact Information

Instructor: Jidong Xiao
Email: jidongxiao@boisestate.edu
Office: CCP 250
Office Hours: Wednesday: 4:45pm-6:45pm (starting from the 4th week), or by appointment.
Class website: http://cs.boisestate.edu/~jxiao/cs452/
TA: Rezvan Joshaghani: rezvanjoshaghani@u.boisestate.edu
TA Office Hours: Tuesday: 4:45pm-5:45pm, Thursday: 4:45pm-5:45pm; Location: Tutoring Center, i.e., lab room 241. (starting from 09/14/2021, i.e., the 4th week).

Catalog Description


Goals

By taking this course, a student will be able to:

- explain the structure of an Operating System,
- explain the function of an Operating System,
- solve problems arising in Operating System design and implementation,
- describe strategies used to implement commonly used Operating Systems,
- write concurrent system programs that run correctly,
- create a large piece of system software in stages.

Textbook

Topics

- Process Management.
- Scheduling.
- Basic Synchronization Principles.
- High-level Synchronization and Deadlock.
- Device Management.
- Memory Management.
- Virtual Memory.
- File Management.

Grading

- Programming Projects [100%]: 10 assignments, each weighing 10% of the grade.

Letter Grade Assignment

Final grades assigned for this course will be based on the percentage of total points earned and are assigned as follows:

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<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A+</td>
<td>96-100%</td>
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<tr>
<td>A</td>
<td>93-95%</td>
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<td>A-</td>
<td>90-92%</td>
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<tr>
<td>B+</td>
<td>83-89%</td>
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<td>B</td>
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<td>B-</td>
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<td>C+</td>
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<td>C-</td>
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<td>D</td>
<td>60-66%</td>
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<td>0-59%</td>
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Programming Projects

There will be 10 programming assignments throughout the semester. Written communication skills are assessed in documentation for programming assignments. Documentation is an integral part
of projects. Writing is expected to be professional, which includes adhering to grammar, spelling, capitalization, formatting and punctuation standards.

Programming assignments require the implementation of working programs using the language constructs and techniques introduced in class. User-level programs must execute and compile on the CS lab machines using the installed compiler. Any programming assignment that does not compile and run on the CS lab machines will not be graded. Kernel programs must execute and compile on the provided virtual machine. Late submissions will not be accepted/graded. All work is to be done individually unless explicitly allowed by the instructor.

Exams and Quizzes

This semester, this course does not have any exams, quizzes. Class attendance is not required.

Academic Honesty

Students are expected to work on their own unless explicitly instructed otherwise. Students who copy from each other or from any other source on assignments will be considered to be cheating as will students who allow their work to be copied. **Cheating is grounds for immediate failure of the course.** This includes trying to find answers to problems, programs, and exams from the Internet or other sources (and uploading your completed assignments to Internet sites that are publicly accessible). For more information, please visit the University’s web page regarding academic integrity.

http://registrar.boisestate.edu/general-information-and-policies/academic-integrity

Disability Office

Students with disabilities needing accommodations to fully participate in this class should contact the Disability Resource Center (DRC). All accommodations must be approved through the DRC prior to being implemented. To learn more about the accommodation process, visit the DRCs website http://drc.boisestate.edu