

Arizona State University
School of Computing, Informatics, and Decision Systems Engineering
CSE 330 — Operating Systems
Course Syllabus

Class schedule

Tuesday/Thursday 4:30-5:45pm, BYAC 270

Instructor

Dr. Ming Zhao

Office: BYENG 412

Email: mingzhao@asu.edu

Web: <http://visa.cs.fiu.edu>

Office hours: Tuesday/Thursday 3-4pm

TAs: Runyu Jin, Zige Huang

Recitation sessions: Tuesday 6-6:50pm & Wednesday 2-2:50pm, BYAC 150

Textbooks

- *Operating System Concepts, Ninth Edition, Abraham Silberschatz, Peter Baer Galvin, and Greg Gagne, Wiley, ISBN 978-1118063330*
(Required for understanding the lectures and preparing for the exams)
- *Understanding the Linux Kernel, Third Edition, Daniel P. Bovet, Marco Cesati, O'Reilly, ISBN 978-0596005658*
(Recommended for working on the projects)

Prerequisites

- CSE/EEE 230 Computer Organization and Assembly Language
- CSE 310 Data Structures and Algorithms
- Programming experience in C or C++
- Experience in Linux and its command-line interface
- Experience with virtual machines

Description

The lectures will cover the important OS topics including OS structure, processes, threads, scheduling, synchronization, main memory, virtual memory, file systems, mass storage, and I/O systems (Part One to Part Four of the textbook).

In addition to exams, the course also includes multiple programming projects which involve implementing process management, memory management, and storage management in Linux *at kernel level*. All the projects should be done by students in groups of *two* students. Familiarity with Linux command-line environment and virtual machines is essential for the projects.

Grading

- Exams: 50% (16.667% each)
- Projects: 50% (10% each)

Final Grade	Percentage
A+	$\geq 95\%$
A	$\geq 90\%$ and $< 95\%$
A-	$\geq 85\%$ and $< 90\%$
B+	$\geq 80\%$ and $< 85\%$
B	$\geq 75\%$ and $< 80\%$
B-	$\geq 70\%$ and $< 75\%$
C+	$\geq 65\%$ and $< 70\%$
C	$\geq 60\%$ and $< 65\%$
D	$\geq 50\%$ and $< 60\%$
E	$< 50\%$

Advice for success

This will be a demanding course. Take this class at another time if you are not ready yet.

To prepare for the exams, 1) attend the lectures, 2) take notes, 3) read the textbook, and 4) do the homework.

To deliver successful projects, 1) find a reliable teammate, 2) start early, 3) work consistently, and 4) be a self-driven learner.

Finally, talk to the instructor and TAs, early and often.

Policies

- Class attendance: Do not come late or leave early. Do not work on any device.
- No late submission: Late submission of assignment will not be graded. There will be *absolutely no* exception unless it is due to *verifiable* cases of illness and emergencies.
- Academic honesty: All assignments must be done *independently*. Academic dishonesty will be treated *seriously* according to the Student Academic Misconduct Procedures.