**CSE 6431: Advanced Operating Systems**

**Spring 2023**

Course Syllabus

**Class meeting times:**

Lectures: Tue and Thu, 11:10AM – 12:30PM, Room: Knowlton Hall 195.

**Instructor**:    
Dr. Ting Zhu, Office: DL 483, Office Hours: Tue 1PM – 2PM and by appointment.

E-mail: zhu.3445@osu.edu

**Teaching Assistant:** Xueyuan Ren. Ren.450@kuckeyemail.osu.edu

**Class web page:** All class materials are available at Carmens  
**Text***:* Modern Operating Systems (4th Edition), Andrew Tanenbaum and Herbert Bos, Prentice Hall. 2014

**Course Description:** This course offers a comprehensive coverage of the field of operating systems. The goal of this course is to have students understand and appreciate the principles in the design and implementation of operating systems software. Topics include: Introduction to operating systems concepts, process management, memory management, file systems, virtualization, and distributed operating systems.

***Grading***Midterm Exam I - 15%

Midterm Exam II – 20%

Project – 25%  
Homework Assignments - 35%

Quizzes and Attendance – 5%

**Homework submission policy:**  All homework assignments will have to be turned in at the beginning of the class on the due date. No late submissions will be accepted.

**Quizzes/Participations:** As a means of helping students keep up with lectures and the reading, random quizzes will be used throughout the semester. If you are not going to make it to class, you need to let me know prior to class time. Otherwise, missed quizzes will be graded as a zero barring documented unexpected emergencies.

**Final Project:** Each student needs to complete a project on a selected problem. Detailed requirements of the final project will be handed out in the middle of the semester.

**Exam:** Exam MUST be taken at the scheduled time unless evidence of a legitimate, unavoidable problem is presented to your instructor **at least 24 hours in advance**. **Make-up exam will NOT be given**; in extreme circumstances students who are forced to miss the exam may, at the instructor’s discretion, have their grades computed either by re-weighting the other graded items or by counting the final project more heavily. (The instructor will choose which option to implement.)

**Academic Integrity Statement:** “By enrolling in this course, each student assumes the responsibilities of an active participant in OSU’s scholarly community in which everyone’s academic work and behavior and held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include, but is not limited to, suspension or dismissal. To find useful information about avoiding plagiarism infractions through appropriate citations, or to read the full policy regarding student academic misconduct for the graduate school, please see <https://oaa.osu.edu/coameightcardinalrules.html>.”

**Scale for final grades:** Grades will be assigned on the following scale. I reserve the right to lower or raise the scale as needed. This is generally only necessary to ensure borderline grades are appropriately assigned a letter grade although it may be necessary to adjust for overly hard or overly easy assignments.

A: 90 – 100

B: 80 – 89.9

C: 70 – 79.9

D: 60 – 69.9

F: < 60