

CS 481 / ECE 437: COMPUTER OPERATING SYSTEMS

Spring 2021

Instructor:	Prof. Amanda Bienz	Email:	bienz@unm.edu
Classroom:	Online	Class Time:	T/Th 9:30 – 10:45
Office:	Online	Office Hours:	TBA

Course Website:

1. <http://www.amandabienz.com/cs481>

COVID 19 *Due to the COVID-19 pandemic, UNM and the School of Engineering will require students, staff, and faculty to follow all health guidelines of the New Mexico Department of Health. Specifically, students, faculty and staff will adhere to social distancing guidelines, will wear masks in all buildings on campus (students are expected to provide their own masks), will maintain a distance of at least six feet from others, and will wash their hands frequently when on campus. To ensure social distancing, classes and laboratories that have enrollments larger than a third of the capacity of the scheduled classroom will be offered in a Face-to-Face + Remote Scheduled format. This will require that students attend class on campus only on certain days, watching the class live via the internet on other days. Your instructor will assign you to specific days to attend on campus – if you have a special need regarding timing, contact your instructor for an accommodation. If you have an underlying health condition that will preclude you from coming to campus, take care of a family member with an underlying condition, or simply do not feel comfortable coming to campus, you can attend remotely; please contact your instructor to make arrangements for this. It is possible that sometime during this semester the pandemic may worsen; if this happens it may be necessary to close campus and transition all classes to a remote delivery.*

Course Format: This course will be offered remotely on zoom. All classes will be recorded and posted online. While attendance is not required, attending the class live is encouraged as it will allow you to ask questions. However, you are welcome to attend fully asynchronously if preferred. Office hours will be selected through a class poll during the first week of class, after which they will be held on zoom.

Course Description CS 481/ECE 437 is a upper-level undergraduate course, which will cover the basics of operating systems. Topics covered include processes, threads and concurrency, CPU scheduling, synchronization, deadlocks, I/O, and file-systems.

Course Textbook We will be using the textbook Operating System Concepts, 10th edition. This book is provided through Inclusive Access. If you would prefer to find the textbook elsewhere, you must opt-out of the inclusive access. More information is available at : [Inclusive Access Webpage](#)

Grading Grades are given based on the standard 10-point scale (90-100 A, 80-89 B, etc.). Note this scale will include pluses and minuses (e.g. 90-93 A-) and I rarely give A+'s. There will be no curve for the course. The grades are broken down as follows:

- In-class questions (5%)
- Discussion on Piazza (5%)
- Four tests (40% → 10% each)
- Homework assignments (50%)

Prerequisites CS 341 (Computer Organization and Design) or similar. You must know how to use C before taking this course. You will be required to complete homeworks in C and I will not be teaching the language.

CS Computers If you do not already have access to the CS computers, you will be given access for the semester. These systems can be used to complete the homework assignments throughout the semester.

Attendance Policy All classes can be attended online. Attendance (remote or online) is not required, but you will be responsible for material covered during each class. There are micro-assessments due at least once per week and are only graded for completion. Missed micro-assessments cannot be made up. The purpose of these micro-assessments is to show how much of the covered material is understood and to determine if further time should be spent on a topic. In total, they only count for 5% of the final grade for the course.

Incomplete and Late Assignments Late assignments are accepted but penalized unless a valid excuse is communicated before the deadline. If the deadline is missed due to unforeseeable circumstances, we will work something out. Barring a valid excuse, an assignment will be accepted for a 50% reduction once grading has begun and solutions have been posted.

Regrading Requests Requests for regrading of assignments or exams should be made within two weeks of the date from which the assignment is returned. Assignments will not be regraded after that point. Regrading requests can be made via email.

Academic Integrity Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, up to and including dismissal, against any student who is found guilty of academic dishonesty or otherwise fails to meet the standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course. Academic dishonesty includes, but is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.

Accommodations for Disabilities In accordance with University Policy 2310 and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. It is imperative that you take the initiative to bring such needs to the instructor's attention, as he/she are not legally permitted to inquire. Students who may require assistance in emergency evacuations should contact the instructor as to the most appropriate procedures to follow. Contact Accessibility Resource Center at 277-3506 for additional information.

If you need accommodation regarding the course format or course requirements, please contact me as soon as possible. We will work with the Disability Services Office to develop a plan for accommodation.

Sexual Harassment and Title XI In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered "responsible employees" by the Department of Education

(see pg 15 <http://www2.ed.gov/about/offices/list/ocr/docs/qa-201404-title-ix.pdf>).

This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the Office of Equal Opportunity (oeo.unm.edu). For more information on the campus policy regarding sexual misconduct, see: <https://policy.unm.edu/university-policies/2000/2740.html>