

Course Information

Course: COP 4610 Operating Systems
Credit Hours: 3

Lecture Room: Health and Wellness Center (HWC) 3100
Lecture Day/Times: Monday, Wednesday 1:20 P.M.- 2:35 P.M.

Recitation Room: School Of Nursing (SCN) 0214
Recitation Day/Times: Thursday 3:05 P.M.- 3:55 P.M.

Course Website: <https://xinliulab.github.io/cop4610.html>

Contact Information

Instructor: Dr. Xin Liu
Email: xl24j@fsu.edu
(Note: Please include "COP4610_YourQuestion" in the subject line to avoid your email being filtered as spam.)

Office Hours: Monday, Wednesday, 4:00 A.M.- 5:00 P.M., and by **appointment**.
Available via Zoom (<https://fsu.zoom.us/my/xinliucs>) or in person.
Office: James Jay Love Building, 160

Teaching Assistants: Michael Nguyen
Email: cop4610t@cs.fsu.edu
(Note: Please include "COP4610_YourQuestion" in the subject line to avoid your email being filtered as spam.)

Course Objectives

- **Operating Systems Concepts:** Define, explain, and apply introductory operating systems concepts: process management, interprocess communication, memory management, I/O systems, file systems, and the like.
- **Shell Programming:** Use the UNIX operating system interface to implement a user-level shell in the C language.
- **Kernal Programming:** Gain experience in implementing and debugging kernel modules, system calls, and synchronization primitives.
- **File Systems Implementation:** Design and implement file system components, focusing on managing and interacting with file systems like FAT32.

Course Prerequisites

- CDA 3100, or an equivalent level of maturity in understanding the principles of computer hardware design and implementation.
- COP 4530, or an equivalent level of understanding of data structures.

Course Material

- Lecture notes (posted on the course website <https://xinliulab.github.io/cop4610.html>).
- Silberschatz, Galvin, and Gagne, Operating System Concepts, **10th** Edition.
(Note: Free and legal electronic versions may be available online.)

Computer Accounts

- You will need a Computer Science account. If you don't have one, you can obtain it using the following link:
<https://system.cs.fsu.edu/newuser/cs-account-setup/>.
- You will also need a my.fsu.edu account for receiving class emails. If you wish, you can forward your FSU email to other accounts. For more information, visit:
<https://servicecenter.fsu.edu/s/article/Email-Account-Management-Information2>.

Your Responsibilities

- Check the course website and your email account regularly
- Understand the lecture slides and reading assignments
- Uphold academic honesty in completing your assignments, projects, and exams
- Turn in your projects on time
- Attend office hours for extra help, as needed

Course Calendar

- For the most up-to-date course calendar, including lecture topics, assignment deadlines, and exam dates, please refer to the course website <https://xinliulab.github.io/cop4610.html>.
- In recitation sessions, the TAs will present materials pertaining to the course projects.

Course Evaluation and Grading Policies

The following coursework components contribute to your final grade, and to the degree shown:

Homework Assignments:	15%
Exams (2 total):	40% (20% each)
Projects (3 total):	45% (15% each)

- Assignments consist of short-answer questions, essays, or problems. The purpose of these assignments is to prepare you for exams.
 - On exams, 80% of the questions asked will be based on lecture materials, assignments, and projects; 20% of the questions will test your ability to apply various principles learned in the class.
 - The midterm exam will cover the course content related to process management, while the final exam will cover memory, file and network management.
 - There will be three increasingly challenging projects due during this course. You are expected to work in teams of two to three people. For both homework and projects, if you receive help from others, or if you find helpful information from various sources, please include appropriate acknowledgements.
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Course Policies, Support Services, and Other Information

Missed Exam Policy

Unexcused missed exams and homework will be given a grade of 0. See the University Attendance Policy for a discussion of valid reasons to excuse absences: https://registrar.fsu.edu/bulletin/graduate/information/academic_regulations/.

Grade of “I” Policy

Incomplete (“I”) grades should be recorded only in exceptional cases when a student, who has completed a substantial portion of the course and who is otherwise passing, is unable to complete a well-defined portion of a course for reasons beyond the student’s control. Students in these circumstances must petition the instructor and should be prepared to present documentation that substantiates their case.

University Attendance Policy

Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

Academic Honor Policy

The Florida State University Academic Honor Policy outlines the University’s expectations for the integrity of students’ academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to “...be honest and truthful and...[to] strive for personal and institutional integrity at Florida State University.” (<http://fda.fsu.edu/Academics/Academic-Honor-Policy>).

For this course, in particular, every student must complete his/her assignments, quizzes, and exams independently. Showing your work to your peers or making it accessible to them is considered academic dishonesty. You are responsible for ensuring that your work is adequately protected and not accessible to others.

Americans with Disabilities Act

Students with disabilities needing academic accommodation should:

1. Register with and provide documentation to the Student Disability Resource Center (SDRC).
2. Bring a letter to the instructor indicating the need for accommodation and the specific type required.

Please note that instructors cannot provide classroom accommodations until appropriate verification from the SDRC has been received. This syllabus and other class materials are available in alternative formats upon request.

For more information about services available to FSU students with disabilities, please contact the SDRC:

- Address: 874 Traditions Way, 108 Student Services Building, Florida State University, Tallahassee, FL 32306-4167
- Phone: (850) 644-9566 (voice), (850) 644-8504 (TDD)
- Email: sdrc@admin.fsu.edu
- Website: <http://www.disabilitycenter.fsu.edu>

Confidential Campus Resources

Various centers and programs are available to assist students with navigating stressors that might impact academic success. These include the following:

- **Victim Advocate Program:** University Center A, Room 4100, (850) 644-7161, Available 24/7/365, Office Hours: M-F 8-5, <https://dsst.fsu.edu/vap>
- **University Counseling Center:** Askew Student Life Center, 2nd Floor, 942 Learning Way, (850) 644-8255, <https://counseling.fsu.edu/>
- **University Health Services:** Health and Wellness Center, (850) 644-6230, <https://uhs.fsu.edu/>

Free Tutoring from FSU

On-campus tutoring and writing assistance are available for many courses at Florida State University. For more information, visit the Academic Center for Excellence (ACE) Tutoring Services' comprehensive list of on-campus tutoring options at <http://ace.fsu.edu/tutoring> or contact tutor@fsu.edu. High-quality tutoring is available by appointment and on a walk-in basis. These services are offered by tutors trained to encourage the highest level of individual academic success while upholding personal academic integrity.

Late Policy and Make-up Exams

Late assignments will not ordinarily be accepted. If, for some compelling reason, you cannot hand in an assignment on time, please contact the instructor as far in advance as possible.

- No credit will be given to late course projects.
- No make-up exams (except under extremely unusual circumstances).

Syllabus Change Policy

Except for changes that substantially affect the implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.