Florida International University
School of Computing and Information Sciences

COP 4610 — Operating Systems Principles
Course Syllabus

Instructor
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Textbooks

* Required for students to understand the lectures and prepare for the quizzes and exams.

* Required for students to work on the lab exercises.

Prerequisites
• CDA 4101 (Structured Computer Organization), COP 3337 (Computer Programming II)
• Computer organization and data structures
• C programming (substantial kernel-level C coding is required in the lab exercises)
• Linux and its command line interface (shell, gcc, etc.) (Linux is used extensively for all the labs)

Description
COP 4610 covers the basics of operating systems. The lectures will cover the important OS topics including OS structure, processes, threads, scheduling, synchronization, deadlocks, main memory, virtual memory, file systems, mass storage, and I/O systems.

The course also includes four lab exercises which involve implementing process management, memory management, and storage management in Linux (at kernel level), the most widely used open-source OS. All the labs should be done by students in groups of no more than two each.

Both class attendance and lab attendance are required.

Course materials will be available on Moodle (http://moodle.cs.fiu.edu).
Grading

Labs: 45% (Lab 1: 7.5%; Lab 2: 12.5%; Lab3: 12.5%; Lab4: 12.5%)
Midterm exam: 20%
Final exam: 25%
Attendance: 10%

Policies

Late submission of lab and exam will not be graded. There will be absolutely no exception unless it is due to verifiable cases of illness and emergencies.

All assignments must be done independently. Academic dishonesty will be treated very seriously according to the Student Academic Misconduct Procedures (http://www2.fiu.edu/~oabp/misconductweb/unitinstructions.htm).

University Policies: Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook.