

Date: Thursday, Oct 2
usual class time: 9:30 am or 11:00 am (75 min)
Location: MCB 231/230 (usual classrooms)

Format:

The midterm exam will consist of 3-5 questions.

It will be **closed book, closed notes, closed computer/without wireless access**. However, you are **allowed to bring one letter-sized sheet of paper with prepared notes** (you may use front and back of that sheet.) You will be able to use that sheet for the final exam as well, so hold on to it after the exam.

You are responsible for the content of lectures 1 through 11 (up to including the Sep 30 lecture.) This content includes, among others:

- Introduction to OS: general goals & principles of operating systems.
- Threads & processes: context switching, mode switching, procedure switching, context management, threading & process APIs.
- Concurrency & Synchronization: critical section problem, race conditions, approaches for guaranteeing mutual exclusion, including locks, semaphores, monitors, spinlocks & disabling interrupts.
- Multiprogramming basics: protection, dual-mode operation, system calls and exceptions. Linking and loading.

Our textbook (edition 8) covers this material in Chapters 1, 2, 3.1-3.3, 6.1-6.8.

The midterm may also contain questions related to projects 0 and 1.

There are sample midterms posted on the class website in the section "Documents" which you may find useful.