

CSI 450 - Operating Systems

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Text: *Operating System Concepts* by Silberschatz, Galvin and Gagne

Overview: Operating systems are an important part of a computer system. Computers are used in many parts of our lives and most of them are driven by operating systems (OS). OS are responsible for handling resources and provide ease of use and abstraction for most users of computer systems.

Topics: We will cover basic OS structures, processes, threads and CPU scheduling. Other topics include synchronization, deadlock, main memory, shared memory, virtual memory, protection and security.

Advising: CSI 450 is an elective for the degree in CSI. CSI 250 is a prerequisite for this course.

Exams: Tentative exam dates are 10/9, 11/20. The final exam will be administered during its scheduled slot during final exam week. An absence on the day of the exam will result in a grade of 0. Except in cases of very extreme emergency, exams must be taken on the day the exam is given. Before a make-up test is scheduled, documentation of the extreme emergency must be given. Make-up exams for tests missed due to an extreme emergency will be arranged for a time that is mutually convenient for the student and Dr. Ramsey.

Attendance: Attendance is mandatory in this course. On your sixth absence, you automatically fail the course. There is no distinction between excused and unexcused absences. You must be present on the day of an exam or you will receive a 0. As a matter of courtesy, you are expected to notify Dr. Ramsey before class describing the reason of your absence. You must be present on the day of an exam or you will receive a 0. It is quite likely that I will email you to discuss the reasons you have missed the class, but it is ultimately your duty to keep track of your absences. Missing a class may result in missed classwork and/or quizzes. There are no make-up quizzes or classwork. It is your responsibility to obtain assigned homework, announcements and class notes from a classmate.

Grading: Each exam (and the final) is worth 25% of your final grade. Homework, presentations, classwork and quizzes are worth the last 25% of your grade. Programming assignments must be handed in on time as source and they must compile and execute. Late homework (and programming that does not compile) will receive a grade of 0. Homework is due by the beginning of class on the day it is due. Do not 'touch' or modify your files on the server after handing in the assignment as this will change the time stamp.

Academic Honesty: You are always subject to the Honor Code of Washington College. Always sign the honor code on materials that you hand in to me. All work must be your own.

Accommodations: If you have an accommodation that has been reported to the college, please let me know as soon as possible so I can work to meet your accommodation.

Suggestions: Get into a group. You may point out programming errors and discuss design with others, but all code must be of your own creation. Copying another student's code will result in immediate failure.