

**CGS 3763 Operating systems
Syllabus for Spring 2011**

Class schedule: Mon, Wed, and Friday 11:30 AM– 12:20 PM, Room PSY 0105

Instructor: *Dr. Jaruwan Mesit*,
jmesit@eecs.ucf.edu, Room HEC 328
Office Hours: Mon 2:30 – 4:00 PM, Wed
2:30 – 4:00 PM, Fri 10:30 -11:20 AM, or
by appointment

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Course Outline:
The goal of the course is to teach
fundamentals concepts and design
principles of operating systems.

Course Topics:
Operating systems structure, process
management, process scheduling, memory
management, virtual memory, I/O system,
and file system

Pre-requisites: CGS1060C – Introduction to Computer Science.

Textbooks:

Required Textbook: *Operating System Concepts, 8e*, Silberschatz, Galvin, Gagne,
2009, John Wiley & Sons, ISBN: 978-0-470-12872-5.

Tentative Topics:

- Operating System Fundamentals.
- Computer System Structure.
- Interrupt Handling.
- Operating System Structure.
- Processes
- Threads
- Concurrent programming
- CPU scheduling
- Process Synchronization.
- I/O System
- Memory Management.
- Virtual memory
- Deadlocks
- File system.
- Command Interpreter.
- Client/Server Systems

Tentative Assignments and Grading Breakdown:

- Three homework assignments: 5%
- Exam 1 (one week before withdrawal date): 25%
- Exam 2: 30%
- Final Exam: 40%

Note: +/- grades may be given in this course if deemed appropriate

Special Notes:

- No Late programming assignment will be accepted. Students will submit assignments in hardcopies.
- For making up examination, there must be valid reason and should be discussed before the exam.

Academic Dishonesty Policy:

Cheating on examinations or other serious forms of academic dishonesty will result in a grade of "F" (and a required report to University officials). Persons "borrowing" someone else's work on an assignment will receive a zero on that assignment. You are not expected to work in isolation on assignments. Significant learning frequently takes place in the interchange of ideas with one another. In the final analysis, however, your response to an assignment must be your own, not someone else's. If you have any problem, come and see the instructor or TAs and discuss your problem. Do not wait till the end of the semester.

Important Dates:

- January 10: Classes begin
- January 17 (M): No Class (MLK Jr. Day)
- February 16 (W): Lecture & Review for the Exam 1
- February 21 (M): Exam 1
- March 4 (F): Withdrawal deadline & no class
- March 7 – 12 (M – S): Spring Break
- March 23 (W): Lecture & Review for the Exam 2
- March 28 (M): Exam 2
- April 25 (M): Review for the final Exam
- April 25 (M): Last day of class
- April 27 (W): Final Exam (Comprehensive)