Course Number and Title:
CS 5323, Design and Implementation of Operating Systems II

Time: 2:30-3:45 MW  Place: MSCS 310

Instructor: M. Samadzadeh  Office: MSCS 215  Phone: 744-5674
Office Hours: 11:30-12:15 Monday through Thursday, or by appointment if necessary

TA: Goutam Mylavarapu  Office: MSCS 230  Phone: 744-5451
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Office Hours: 1:00-2:30 Monday, 1:00-2:30 Wednesday, 11:00-12:00 Friday,
or by appointment if necessary

Prerequisite: CS 4323, Design and Implementation of Operating Systems I

(For course material, you need to rely primarily on your notes. The above text may be out of print; however, it is readily available from sources other than the original publisher. This text is generally closest to what I would like to cover. A number of the homework sets will probably be based on it.)

Optional/Recommended Texts, etc.:


24. Various Periodicals and Technical Publications, e.g., ACM SIGOPS (Association for Commuting Machinery, Special Interest Group on Operating Systems) and Operating Systems Review.


**Course Description**: Task systems and concurrent programming. Synchronization and inter-process communication. Theoretical investigation of resource sharing and deadlock. Memory management strategies. Deterministic scheduling algorithms and queueing theory. Distributed operating systems.

**Grading**: Project 35%, Homeworks 10%, Tests (3) 10% each (February 8, March 8, April 12), Final Exam 25% comprehensive (May 12, 2:00-3:50 PM)

Notes:

(1) OS-II is a core course. A core course is typically the main academic focus of a semester for a graduate student. The reason is that core courses typically place a much larger demand on a student's time than non-core courses. Your thesis/dissertation work and what you might be doing for your research assistantship are certainly important, but not to the detriment of your performance in your courses, and especially in your core courses.

(2) Announcements about assignments, project due dates, etc. will be made in class and/or by okstate email. Students are to check their okstate email regularly. Students are responsible for all announcements made in class and/or by okstate email. All course-related email communication is to be done using okstate email.

Students are assigned a class account on the Computer Science Department's main computer system called CSX.

New students need to go to http://cs.okstate.edu/pwreset to set an initial password (using their OKEY short name and password to identify themselves there); and then, when they first log into CSX, the students will change the password to something they choose. Detailed information is available at: http://cs.okstate.edu/loggingon.html

For CSX accounts, email, or other Computer Science Department general computer problems, report the problem using the form available at the URL http://sysmgr.cs.okstate.edu/ or send email to systems.group@cs.okstate.edu.

(3) Assignments are due at the beginning of class on the date they are due, unless announced in class otherwise. Homework assignments are to be submitted in hard copies, i.e., on paper. The "word processing and formatting" of the assignments is preferred and recommended but not required. Assignment legibility is a requirement. Late assignments will not be accepted. Only when verifiable extenuating circumstances can be demonstrated will make-up exams or extended assignment due dates be considered. Verifiable extenuating circumstances must be reasons beyond control of the students, such as illness or accidental injury. Poor performance in class is not an extenuating circumstance. Advise your instructor of the verifiable extenuating circumstances in advance or as soon as possible. In such situations, the date and nature of the make-up exams and the extended due dates for the assignments will be decided by the instructor.

(4) A general point about assignments and tests: It is understood and it is always the case that you must state all assumptions, show all work, and justify all answers and derivation steps for all problems and exercises in the homework assignments and examinations.

(5) Cell phones must be turned off during class and in examination sessions. Computer use, i.e., the use of a laptop, tablet, smart phone, wearable devices, etc., is not allowed in class unless a clear and convincing case is made for their use through Office of Student Disability Services.

If you have something more important, or more interesting, to do than attend class and pay attention, then by all means you are advised to skip class and duly attend to your higher priority affair. If you expect an emergency call or if you are monitoring an emergency situation real-time, then you need to leave the class in order to attend to your emergency situation. Just sitting in class and doing what appears as surfing or browsing on a cell phone is not acceptable.
Attendance Policy:

(1) Attendance is strongly encouraged, but not required or monitored. Students are responsible for all material covered in class. Some of the material covered in class will not be in the textbook.

(2) Attending this class requires registration or formal audit, no informal "sitting in" is allowed.

Collaboration Policy for CS 5323

Assignments: Discussion of any kind is allowed. After discussion, each student must write up her/his own solution. Copying another student’s work is not allowed. Giving another student your work is considered cheating as well.

Project: Discussion of techniques in a natural language (e.g., English) is allowed, but a discussion in a computer or algorithmic language is not allowed. Computer language discussions should not concern the assignment. Giving or receiving any code, drawings, diagrams, texts, or designs is not allowed. Every line of work that you turn in must be your own.

Examinations: No discussion of any kind (except with the instructor) is allowed. No access to any type of written material is allowed, unless explicitly stated otherwise for a specific exam. Examination will be based on the material covered in class. The best source for study/preparation is the notes that you take in class, the objective being to encourage/reward class attendance.

Students who do not comply with the described collaboration policy will receive a grade of F for the course. Furthermore, the case will be reported to the University Officials.

Attachments:

• Computer Science Department General Computer Use and Misuse Policy
  http://cs.okstate.edu/CSUsePolicy.html
  [ Also see: Appropriate Computer Use http://it.okstate.edu/policies/pol_app.php ]

• Academic Dishonesty Policy
  http://cs.okstate.edu/CSUsePolicy.html

• Disabilities Act
  http://cs.okstate.edu/CSUsePolicy.html

• Academic Integrity Policy
  http://cs.okstate.edu/CSUsePolicy.html
  [ A more in depth statement of OSU’s policy can be found here:
  http://academicintegrity.okstate.edu/ ]

• Oklahoma State University, Syllabus Attachment, Spring 2017
  http://cs.okstate.edu/~samad/5323/17SyAt.pdf

• Spring 2017 Final Examination Schedule
  http://cs.okstate.edu/~samad/5323/17FinExams.pdf

• Spring 2017 - Academic Calendar