

Course Number and Title: CS 4273 / ECEN 4273, Software Engineering

Time: 2:30-3:45 MW *Place:* MSCS 310 and T-NCB 211

Instructor: M. Samadzadeh *Office:* MSCS 215 *Phone:* 744-5674
Office Hours: 11:30-1:00 Tuesday and Thursday, or by appointment if necessary

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Office Hours: 1:00-2:30 Monday, 1:00-2:30 Wednesday, 10:30-11:30 Friday,
or by appointment if necessary

Prerequisites: CS 3653 (Discrete Mathematics II), and either CS 3443 (Computer Systems) or ECEN 3213 (Microcomputer Principles and Applications)

Text, etc.:

- Ian Sommerville, *Software Engineering, 9th Ed.*, Pearson Education Inc., Essex, England and Addison-Wesley Publishers, Boston, MA, 2011.
- Various Periodical Articles and Technical Publications copied and handed out in class.
- Other Books, Proceedings, etc. available at the University Libraries.

Course Description: Fundamental characteristics of the software life cycle. Tools, techniques, and management controls for development and maintenance of large software systems. Software metrics and models. Human factors and experimental design.

<i>Grading:</i>	Homeworks	10%
	Project	30%
	Tests (2)	15% each (September 28 and October 31)
	Final Exam	30% (December 16, 2:00-3:50) comprehensive

Letter Grades: [90-100] A, [80-90] B, [70-80] C, [60-70] D, [0-60] F

Extra work is required of the graduate students taking this course. The extra work will be an extra component of the semester-long multi-phase team project, e.g., its reliability analysis, its formal risk analysis, its cost/benefit analysis, or constructing the software architecture of the eventual implementation of the specific project assigned to each team.

Notes:

(1) 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.

(2) A general point about assignments and tests: It is understood and it is always the case that you must justify your answers, show all your work, and state your assumptions on all problems and exercises in the assignments and examinations. A correct answer with no justification and no work shown may be worth less than a wrong answer with full justification and having shown all the work.

(3) Cell phones must be turned off during class and in examination sessions. Computer use, i.e., the use of a laptop, tablet, smart phone, etc., is not allowed in class unless a clear and convincing case is made for the use of one.

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 text book.

Announcements about assignments, project due dates, etc. will be made in class and/or by email. Students are to check their CSX email regularly using their class account, i.e., `userid@cs.okstate.edu`.

Passwords for new accounts on CSX are the PR&SM passwords (PR&SM = Password Reset and System Management) that students can get via their O-Key accounts. If you have a new CSX account, you should use your PR&SM password.

Students are responsible for all announcements made in class and/or by email. Students are to either check their class account email on CSX regularly or to put an appropriate forwarding mechanism in place to make sure to read their class-related email.

For CSX email and 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`.

(2) Taking a course as a remote student is not the same as taking a correspondence course or taking an on-line course. For this course, the lectures are broadcast to the remote site(s) but the recordings are not going to be available. This course is not asynchronous, it has a pace and progress rate that must be followed by all students. The deadlines and due dates apply to all students.

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

Collaboration Policy for CS 4273 / ECEN 4273

Homeworks: 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 shall be only among team members since the projects will be team-specific.

Examinations: No discussion of any kind (except with the instructor) is allowed. No access to any type of written material is allowed.

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

Attachments:

- Computer Science Department General Computer Use and Misuse Policy
- Academic Integrity Policy
- Disabilities Act
- Oklahoma State University - Syllabus Attachment, Fall 2011
- Oklahoma State University - Tulsa Addendum to Syllabus Attachment, Fall 2011
- Fall 2011 Final Examination Schedule
- Fall 2011 - Academic Calendar