

Lesson Plan and Project Dates

Instructor	Rex Page	Instructor Office Hours - DEH 252
Phone/email	page@ou.edu	Tues 1:00-2:00, Wed 3:00-4:00, Thurs 1:30-2:30
Class Meetings	TR 3:00-4:15, CEC 121	Website https://learn.ou.edu
Assistant	Meghan Rieke meghanrieke@ou.edu	Teaching Assistant Office Hours - DEH 115 Mon 1:45-2:45, Wed 12:00-1:00, Thurs 9:30-10:30

Reading Sources	<i>SE</i> <i>A Discipline for Software Engineering</i> , Humphrey, Addison Wesley, 1995 <i>CAR</i> <i>Computer-Aided Reasoning: An Approach</i> , Kaufmann <i>et al</i> , Kluwer, 2000 http://www.lulu.com/content/1746161 <i>CEth</i> <i>Ethics and Technology</i> , Herman Tavani, Wiley, 2007 <i>AoSI</i> Articles on Software Inspections (CS4263 reserve, Engineering Library) <i>ACL2</i> ACL2 Download (course website), ACL2 Tutorial (Google ACL2) <i>HtDP</i> might help: <i>How to Design Programs</i> , Felleisen <i>et al</i> (online:Google HtDP) <i>TLS</i> might help: <i>The Little Schemer</i> , Friedman and Felleisen, MIT Press, 1995
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Required Work	Individual Projects – <i>see note at bottom of page about effects of computer crashes</i>	50%
	Team Projects – <i>grades scaled by peer evaluations (evals due with each proj)</i>	25%
	Final Examination	25%

Lesson Plan	week	Tues	project / reading	Thurs	project / reading
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <u>Underlined</u> projects indicate due dates. </div>	1	Aug 24	CAR 1-2, SE 1-3	Aug 26	CAR 3-4, SE 4-5
	2	Aug 31	CEth 2-3	Sep 2	CEth 4
	3	Sep 7	<u>iEx1</u> , Predicate-based testing	Sep 9	<u>CAR 5</u> , Mechanized logic
	4	Sep 14	<u>iEx2</u> , ACL2 file i/o, PROBE, SE 4-5	Sep 16	<u>iEthRpt</u> , SE on the job (Mercer) DEH 320
	5	Sep 21	Course overview	Sep 23	<u>SE 4-5</u> , Software estimation
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Reading assignments in italics: “CAR 1-2” means Chs 1 and 2 of Computer Aided Reasoning text </div>	6	Sep 28	<u>iEx3</u> , SE 10, Software design	Sep 30	CAR 8-9, The Method
	7	Oct 5	<u>iEx4dsgn</u> , Predicate-based tests	Oct 7	CAR 10, Formulating theorems
	8	Oct 12	Theorem formulation and proof	Oct 14	<u>iEx4</u> , AoSI, Design/code review
	9	Oct 19	Software architecture	Oct 21	<u>iEx5dsgn</u> , Modular ACL2
	10	Oct 26	Modular ACL2	Oct 28	<u>iEx5</u> , tSumm (work) BO
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> BO = break-out rm Reserve a DEH room </div>	11	Nov 2	<u>tSumm</u> , tDsgn (work) BO	Nov 4	<u>SE in industry</u> (K Crawford) DEH 320
	12	Nov 9	tDsgnRvw (work) BO	Nov 11	Test-driven development (J Sharp)
	13	Nov 16	<u>tDsgnRvw</u> , <u>tDsgn</u> , tImpl(work) BO	Nov 18	tImpl (work) BO
	14	Nov 23	tCodeRvw (work) BO	Nov 25	Thanksgiving break
	15	Nov 30	<u>tCodeRvw</u> , tImpl (work) BO	Dec 2	tImpl (work) BO
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Download Tools from course website </div>	16	Dec 7	tPoster(work), tLOCtbl(work) BO	Dec 9	<u>tLOCtbl</u> , <u>tImpl</u> , Review
		Friday, Dec 10, 3-5pm, Devon Atrium <u>tPoster</u> Final Examination: Wednesday, Dec15, 4:30-6:30, class meeting room			

Learning Goals	Successful students will learn an effective, measurable process for software development, will have applied the process in projects of moderate complexity, and will be prepared to apply it in complex projects. Students will work individually and in teams to analyze and apply software processes, estimate software size from designs, formally review software designs and code, and design and develop software with a focus on preventing defects.
Readings	Reading assignments noted in Lesson Plan by reference-abbreviation and chapter numbers (eg, <i>SE 1-2</i> means Chapters 1 and 1 of the Humphrey text).
Lectures	Lectures discuss assigned reading. (Some lectures have no assigned reading.)
Projects	Project due-dates indicated in Lesson Plan by underlined items (eg, <u>iEx4</u> , “i” indicates individual project, “t” team project). See course website for project details. “Work” indicates in-class work period.
ABET	Data is being gathered in this course for accreditation purposes on many <i>ABET Objectives</i>
Instructor Eval	The College of Engineering utilizes student ratings as one of the bases for evaluating the teaching effectiveness of each of its faculty members. The results of these forms are important data used in the process of awarding tenure, making promotions, and giving salary increases. In addition, the faculty uses these forms to improve their own teaching effectiveness. The original request for the use of these forms came from students, and it is students who eventually benefit most from their use. Please take this task seriously and respond as honestly and precisely as possible, both to the machine-scored items and to the open-ended questions.

Dog Ate Homework? Computer crashes will not serve as excuses for late papers. Save your files frequently in a repository outside your computer. SVN repositories are available for this purpose. Send requests to the instructor.