

IS 301 Software Engineering

Fall 2004 SYLLABUS

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TEXT: Sommerville, I. (2004). *Software Engineering, 7th Edition*. Pearson/Addison-Wesley.

Week	Day	Class	Date	Part	TOPIC	Ch.	Pp to read
1	M	1	30-Aug	1	OVERVIEW		
1	M	1	30-Aug		Introduction to course, students, professor, SQ3R	-	
	W	2	1-Sep		Introduction & Socio-technical systems	1,2	37
	F	3	3-Sep		Critical systems	3	18
2	M		6-Sep		<i>Labor Day</i>		
	W	4	8-Sep		Software processes	4	26
	F	5	10-Sep		Project management	5	19
3	M	6	13-Sep	2	REQUIREMENTS		
3	M	6	13-Sep		Software requirements	6	25
	W	7	15-Sep		Requirements engineering processes	7	24
	F	8	17-Sep		System models	8	21
4	M	9	20-Sep		Critical systems specification	9	20
	W	10	22-Sep	> > >	QUIZ #1 IN CLASS: Part 1 -- Overview	< < <	< < <
	F	11	24-Sep		Formal specification	10	19
5	M	12	27-Sep		Formal specification workshop		
	W	13	29-Sep		Review Part 2: Requirements		
	F	14	1-Oct	3	DESIGN		
	F	14	1-Oct		Architectural design	11	22
6	M	15	4-Oct		Distributed systems architectures	12	23
	W	16	6-Oct	> > >	QUIZ #2 IN CLASS: Part 2 -- Requirements	< < <	< < <
	F	17	8-Oct		Application architectures	13	18
7	M	18	11-Oct		Object-oriented design	14	23
	W	19	13-Oct		Real-time-software design	15	18
	F	20	15-Oct		User interface design	16	22
8	M	21	18-Oct		More on user-interface design		
	W	22	20-Oct		Review Part 3: Design		
	F	23	22-Oct	4	CRITICAL SYSTEMS		
	F	23	22-Oct		Rapid software development	17	23
9	M	24	25-Oct		Software reuse	18	22
	W	25	27-Oct	> > >	QUIZ #3 IN CLASS: Part 3 -- Design	< < <	< < <
	F		29-Oct		<i>Mid-Term Break</i>		
10	M	26	1-Nov		Component-based software engineering	19	21
	W	27	3-Nov		Critical systems development	20	24
	F	28	5-Nov		Software evolution	21	21
11	M	29	8-Nov		Review Part 4: Critical Systems		
	W	30	10-Nov	5	VERIFICATION AND VALIDATION		
	W	30	10-Nov		Verification and validation	22	22
	F	31	12-Nov		Software testing	23	26
12	M	32	15-Nov		Critical systems validation	24	20
	W	33	17-Nov	> > >	QUIZ #4 IN CLASS: Part 4 -- Critical systems	< < <	< < <
	F	34	19-Nov	6	MANAGING PEOPLE		
	F	34	19-Nov		Managing people	25	21
13	M		22-Nov				
	W		24-Nov		<i>Thanksgiving Break</i>		
	F		26-Nov				
14	M	35	29-Nov		Software cost estimation	26	26
	W	36	1-Dec		Quality management	27	22
	F	37	3-Dec		Process improvement	28	22
15	M	38	6-Dec		Configuration management	29	22
	W	39	8-Dec		Review Part 5: Verification and validation		
	F	40	10-Dec		Review Part 6: Managing people		
16	M	41	13-Dec		Course wrap-up		
	T	42	14-Dec	> > >	QUIZ #5 IN CLASS: Parts 5 & 6	< < <	< < <

> > > **Final exam during scheduled exam period** < < <