CIS 422/522 - Software Methodologies - Spring 2022 - Anthony Hornof - 4/19/2022					
Unless noted otherwise, the chapters are from Sommerville (2015) "Software Engineering", 10th Edition					
Week	Day	High-Level Topic	In-Class Activities	Reading	Projects & Exercises
Week One	Tue, Mar 29	Overview of software engineering	Distribute survey. Introduce another student in the class.		
	Thu, Mar 31	Software lifecycle.	Quiz.	• Syllabus. • First level of all "Project Handouts" and "Course Handouts" on the course website. • Chapter 1 "Introduction" • Chapter 2 "Software Processes" • Skip Section 2.4 "Process Improvement".	
Week Two	Tue, Apr 5	Software project management, teamwork, and project planning	Develop Gantt charts for a project. At least 2 different ways to assign tasks and schedule deadlines.	Chapter 22 "Project Management". Section 23.3 "Project Scheduling".	
	Thu, Apr 7	Software project management, teamwork, and project planning			
Week Three	Tue, Apr 12	Software design and modeling languages	Develop some dynamic models based on a problem statement.	• Chapter 5 "System modeling" (skip Section 5.5 "Model-driven engineering"). • Chapter 7 "Design and Implementation" (skip Sections 7.3 & 7.4).	
	Thu, Apr 14	Software Design Principles		Lecture Notes on Software Design Principles	
Week Four	Tue, Apr 19	Software architecture	Propose architectures based on a problem statement.	Chapter 6 "Architectural Design".	
	Thu, Apr 21	Software architecture		Chapter 6 "Architectural Design". Section 7.2 "Design Patterns"	
Week Five	Tue, Apr 26		Guest Lecture on Agile Development by Prof. Eric Wills		
	Thu, Apr 28	**Midterm Exam**		All reading assigned above.	
Week Six	Tue, May 3	Requirements engineering	Students present: (1) Project 1s with 5 minutes per group. (2) Project 2 ideas.	Chapter 4 "Requirements Engineering"	Students present P1s, and P2 ideas.
	Thu, May 5	Requirements engineering		Chapter 4 "Requirements Engineering"	
Week Seven	Tue, May 10	Requirements engineering			
	Thu, May 12	Requirements engineering			
Week Eight	Tue, May 17	Software testing		Chapter 8 "Software Testing"	
	Thu, May 19	Software testing			
Week Nine	Tue, May 24	User Interace Design		Rosson & Carroll (2008) "Usability Engineering" - On Canvas	
	Thu, May 26	User Interace Design			
Week Ten	Tue, May 31	Project 2 Group Presentations			
	Thu, Jun 2	Project 2 Group Presentations			