

# UCSC CMPS 115 Syllabus -- Summer 2016

## Course Structure

The course consists of three major components:

1. Lectures on Software Engineering topics
2. Team software project
3. Read/Write/Review assignments of technical literature

## Lectures

Lectures cover

- Scrum software project management
- agile software engineering practices
- software requirements elicitation and analysis
- software design and modeling using UML, OO design principles, and design patterns
- software testing and quality assurance

## Team Software Project

Teams of about five students practice the concepts and practices taught in the lectures. The course emphasizes the organizational and communication aspects of teamwork in addition to sound technical practices.

## Read/Write/Review Assignments of Technical Literature

As an introduction to technical literature students read and summarize three technical articles relevant to the course material. In addition, students review and give each other feedback on their summaries.

## Course Schedule

The course schedule follows below.

Date	Lecture	RAC	Project	Quiz
Monday, June 27, 2016	Course Overview Introduction to Scrum		Project team formation use project signup sheet on Piazza	
Tuesday, June 28, 2016			Project team formation	
Wednesday, June 29, 2016	Introduction to Scrum Project support tools		Project team formation Read/Explore: GitHub other project support tools	
Thursday, June 30, 2016			plan project set up tools	
Friday, July 01, 2016			plan project set up tools	
Saturday, July 02, 2016				
Sunday, July 03, 2016				
Monday, July 04, 2016	Holiday - University closed			
Tuesday, July 05, 2016		Due: RAC1 submission	due: Release Plan due: Sprint 1 Plan start Sprint 1	
Wednesday, July 06, 2016	SW Eng intro Requirements Modeling with UML		Initial Presentations	
Thursday, July 07, 2016		Due: RAC1 reviews		
Friday, July 08, 2016				
Saturday, July 09, 2016				
Sunday, July 10, 2016				
Monday, July 11, 2016	Modeling with UML		end Sprint 1	Quiz 1
Tuesday, July 12, 2016			due: TSR 1 due: Sprint 1 report start Sprint 2 due: Sprint 2 plan	
Wednesday, July 13, 2016	Architectures Design patterns			

Thursday, July 14, 2016		Due: RAC2 submission		
Friday, July 15, 2016				
Saturday, July 16, 2016				
Sunday, July 17, 2016				
Monday, July 18, 2016	Design patterns OO design principles	Due: RAC2 reviews	end Sprint 2	
Tuesday, July 19, 2016			due: TSR 2 due: Sprint 2 report start Sprint 3 due: Sprint 3 plan	
Wednesday, July 20, 2016	QA/Testing			
Thursday, July 21, 2016				
Friday, July 22, 2016				
Saturday, July 23, 2016				
Sunday, July 24, 2016				
Monday, July 25, 2016	QA/Testing	Due: RAC3 submission	end Sprint 3	Quiz 2
Tuesday, July 26, 2016			due: TSR 3 due: Sprint 3 report due: other release documents due: Acceptance test	
Wednesday, July 27, 2016	DevOps	Due: RAC3 reviews	Final Presentations due: Reflection essay	
Thursday, July 28, 2016				
Friday, July 29, 2016				

<b>Other</b>
Class drop deadline
Class withdraw deadline

