

Course Syllabus

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Some recommended sources:

[Martin Fowler](#)  (<https://martinfowler.com/>)












[Joel Spolsky](#)  (<https://www.joelonsoftware.com/>)








Course Summary:










Date	Details	Due
Thu Sep 9, 2021	 first day of classes (https://courseworks2.columbia.edu/calendar?event_id=355526&include_contexts=course_135182)	12am
	 4156 class: introduction (https://courseworks2.columbia.edu/calendar?event_id=358892&include_contexts=course_135182)	10:10am to 11:25am
Tue Sep 14, 2021	 What Is Software Engineering? (https://courseworks2.columbia.edu/courses/135182/assignments/710882)	due by 10am
	 4156 class: MVC (https://courseworks2.columbia.edu/calendar?event_id=358906&include_contexts=course_135182)	10:10am to 11:25am
Wed Sep 15, 2021	 Assignment I0: "Homework Zero" (https://courseworks2.columbia.edu/courses/135182/assignments/680926)	due by 11:59pm
Thu Sep 16, 2021	 4156 class: APIs (https://courseworks2.columbia.edu/calendar?event_id=358893&include_contexts=course_135182)	10:10am to 11:25am
	 end of program change period (https://courseworks2.columbia.edu/calendar?event_id=355527&include_contexts=course_135182)	12am
Tue Sep 21, 2021	 4156 class: working in teams (https://courseworks2.columbia.edu/calendar?event_id=358907&include_contexts=course_135182)	10:10am to 11:25am

Date	Details	Due
Wed Sep 22, 2021	 Assignment I1: Implementing A Simple Game https://courseworks2.columbia.edu/courses/135182/assignments/680927	due by 11:59pm
Thu Sep 23, 2021	 Working in Teams https://courseworks2.columbia.edu/courses/135182/assignments/720272	due by 10am
	 4156 class: finding bugs https://courseworks2.columbia.edu/calendar?event_id=358894&include_contexts=course_135182	10:10am to 11:25am
Mon Sep 27, 2021	 Assignment T0: Team Formation https://courseworks2.columbia.edu/courses/135182/assignments/680930	due by 11:59pm
Tue Sep 28, 2021	 4156 class: user stories https://courseworks2.columbia.edu/calendar?event_id=358908&include_contexts=course_135182	10:10am to 11:25am
Wed Sep 29, 2021	 Assignment I2: Testing Your Game https://courseworks2.columbia.edu/courses/135182/assignments/680928	due by 11:59pm
Thu Sep 30, 2021	 4156 class: use cases and agile https://courseworks2.columbia.edu/calendar?event_id=358895&include_contexts=course_135182	10:10am to 11:25am
Tue Oct 5, 2021	 4156 class: CRC cards https://courseworks2.columbia.edu/calendar?event_id=358909&include_contexts=course_135182	10:10am to 11:25am
Wed Oct 6, 2021	 Assignment I3: Saving Your Game State https://courseworks2.columbia.edu/courses/135182/assignments/680929	due by 11:59pm
Thu Oct 7, 2021	 4156 class: design principles https://courseworks2.columbia.edu/calendar?event_id=358896&include_contexts=course_135182	10:10am to 11:25am
Tue Oct 12, 2021	 4156 class: coding https://courseworks2.columbia.edu/calendar?event_id=358910&include_contexts=course_135182	10:10am to 11:25am

Date	Details	Due
Wed Oct 13, 2021	 Assignment T1: Preliminary Project Proposal https://courseworks2.columbia.edu/courses/135182/assignments/680931	due by 11:59pm
Thu Oct 14, 2021	 Extremely Expensive Mistakes https://courseworks2.columbia.edu/courses/135182/assignments/730996	due by 10am
	 4156 class: insecure coding https://courseworks2.columbia.edu/calendar?event_id=358897&include_contexts=course_135182	10:10am to 11:25am
Tue Oct 19, 2021	 4156 class: testing overview https://courseworks2.columbia.edu/calendar?event_id=358911&include_contexts=course_135182	12am
Thu Oct 21, 2021	 4156 class: equivalence partitions https://courseworks2.columbia.edu/calendar?event_id=358898&include_contexts=course_135182	10:10am to 11:25am
Mon Oct 25, 2021	 Assignment T2: Revised Project Proposal https://courseworks2.columbia.edu/courses/135182/assignments/680932	due by 11:59pm
Tue Oct 26, 2021	 4156 class: running tests https://courseworks2.columbia.edu/calendar?event_id=358912&include_contexts=course_135182	10:10am to 11:25am
Wed Oct 27, 2021	 First Individual Assessment Starts https://courseworks2.columbia.edu/calendar?event_id=381864&include_contexts=course_135182	12am
Thu Oct 28, 2021	 4156 class: test doubles https://courseworks2.columbia.edu/calendar?event_id=358899&include_contexts=course_135182	10:10am to 11:25am
Sat Oct 30, 2021	 First Individual Assessment Ends https://courseworks2.columbia.edu/calendar?event_id=381865&include_contexts=course_135182	12am
	 First Individual Assessment	due by 11:59pm

Date	Details	Due
	(https://courseworks2.columbia.edu/courses/135182/assignments/680942)	
Mon Nov 1, 2021	 academic holiday (https://courseworks2.columbia.edu/calendar?event_id=355529&include_contexts=course_135182)	12am
Tue Nov 2, 2021	 university holiday (https://courseworks2.columbia.edu/calendar?event_id=355530&include_contexts=course_135182)	12am
Thu Nov 4, 2021	 4156 class (https://courseworks2.columbia.edu/calendar?event_id=358900&include_contexts=course_135182)	10:10am to 11:25am
Tue Nov 9, 2021	 4156 class: design patterns (https://courseworks2.columbia.edu/calendar?event_id=358914&include_contexts=course_135182)	10:10am to 11:25am
Thu Nov 11, 2021	 4156 class: refactoring (https://courseworks2.columbia.edu/calendar?event_id=358901&include_contexts=course_135182)	10:10am to 11:25am
Mon Nov 15, 2021	 Assignment T3: First Iteration (https://courseworks2.columbia.edu/courses/135182/assignments/680933)	due by 11:59pm
	 SolarWinds Attack (https://courseworks2.columbia.edu/courses/135182/assignments/744576)	due by 10am
Tue Nov 16, 2021	 4156 class: continuous integration (https://courseworks2.columbia.edu/calendar?event_id=358915&include_contexts=course_135182)	10:10am to 11:25am
Thu Nov 18, 2021	 4156 class: UML (https://courseworks2.columbia.edu/calendar?event_id=358902&include_contexts=course_135182)	10:10am to 11:25am
Fri Nov 19, 2021	 Assignment T4: First Iteration Demo (https://courseworks2.columbia.edu/courses/135182/assignments/680934)	due by 11:59pm
Tue Nov 23, 2021	 class cancelled (https://courseworks2.columbia.edu/calendar?)	12am

Date	Details	Due
	event_id=388972&include_contexts=course_135182)	
Wed Nov 24, 2021	 academic holiday (https://courseworks2.columbia.edu/calendar?event_id=355531&include_contexts=course_135182) 	12am
Thu Nov 25, 2021	 thanksgiving (https://courseworks2.columbia.edu/calendar?event_id=355532&include_contexts=course_135182) 	12am
Fri Nov 26, 2021	 university holiday (https://courseworks2.columbia.edu/calendar?event_id=355533&include_contexts=course_135182) 	12am
Tue Nov 30, 2021	 4156 class: test oracles (https://courseworks2.columbia.edu/calendar?event_id=358917&include_contexts=course_135182) 	10:10am to 11:25am
Thu Dec 2, 2021	 4156 class: debugging (https://courseworks2.columbia.edu/calendar?event_id=358904&include_contexts=course_135182) 	10:10am to 11:25am
Tue Dec 7, 2021	 4156 class: SE4ML (https://courseworks2.columbia.edu/calendar?event_id=358918&include_contexts=course_135182) 	10:10am to 11:25am
Thu Dec 9, 2021	 4156 class: project issues (https://courseworks2.columbia.edu/calendar?event_id=358905&include_contexts=course_135182) 	10:10am to 11:25am
Sat Dec 11, 2021	 Assignment T5: Second Iteration (https://courseworks2.columbia.edu/courses/135182/assignments/680935) 	due by 11:59pm
Mon Dec 13, 2021	 last day of classes (https://courseworks2.columbia.edu/calendar?event_id=355534&include_contexts=course_135182) 	12am
Tue Dec 14, 2021	 study day (https://courseworks2.columbia.edu/calendar?event_id=355535&include_contexts=course_135182) 	12am
Wed Dec 15, 2021	 study day (https://courseworks2.columbia.edu/calendar? 	12am

Date	Details	Due
	event_id=355536&include_contexts=course_135182)	
	 Assignment T6: Second Iteration Demo https://courseworks2.columbia.edu/courses/135182/assignments/680936	due by 11:59pm
Thu Dec 16, 2021	 second individual assessment posted https://courseworks2.columbia.edu/calendar?event_id=355546&include_contexts=course_135182	12am
Sun Dec 19, 2021	 Second Individual Assessment https://courseworks2.columbia.edu/courses/135182/assignments/680943	due by 11:59pm
	 demo day https://courseworks2.columbia.edu/calendar?event_id=355550&include_contexts=course_135182	12am
Mon Dec 20, 2021	 Assignment T7: Demo Day https://courseworks2.columbia.edu/courses/135182/assignments/730702	due by 4:30pm
	 Piazza manual recount https://courseworks2.columbia.edu/courses/135182/assignments/765782	due by 8:22pm
	 Adjusted Team Project https://courseworks2.columbia.edu/courses/135182/assignments/680925	
	 Differential Factor https://courseworks2.columbia.edu/courses/135182/assignments/769136	
	 Roll Call Attendance https://courseworks2.columbia.edu/courses/135182/assignments/743610	