Course Syllabus

Jump to Today 🗞 Edit

Some recommended sources:

Martin Fowler → (https://martinfowler.com/)

<u>Joel Spolsky</u> □→ (https://www.joelonsoftware.com/)

Course Summary:

Date	Details	Due
Tue Sep 6, 2022	## 4156 first day of class (https://courseworks2.columbia.edu/calendar? event id=419223&include contexts=course 154931)	12am
	Flamingo Book chapter 1 (https://courseworks2.columbia.edu/courses/154931/assignments/880083)	due by 10am
Thu Sep 8, 2022	## 4156 upstream vs. downstream and build (https://courseworks2.columbia.edu/calendar? event_id=419239&include_contexts=course_154931)	12am
Tue Sep 13, 2022	## 4156 Maven demo and unit testing (https://courseworks2.columbia.edu/calendar? event_id=419224&include_contexts=course_154931)	12am
Thu Sep 15, 2022	## 4156 guest speaker (https://courseworks2.columbia.edu/calendar? event_id=419240&include_contexts=course_154931)	12am
	What Software Engineers Do All Day (https://courseworks2.columbia.edu/courses/154931/assignments/919194)	due by 10am
Fri Sep 16, 2022	end of program change period (https://courseworks2.columbia.edu/calendar? event_id=419355&include_contexts=course_154931)	12am
Mon Sep 19, 2022	Assignment T0: Team Formation (https://courseworks2.columbia.edu/courses/154931/assignments/834539)	due by 11:59pm
Tue Sep 20, 2022	4156 JUnit demo and finish Unit Testing (https://courseworks2.columbia.edu/calendar? event_id=419225&include_contexts=course_154931)	12am
Thu Sep 22, 2022	4156 Software Reuse and APIs (https://courseworks2.columbia.edu/calendar? event id=419241&include contexts=course 154931)	12am

Date	Details	Due
Mon Sep 26, 2022	Assignment T1: Preliminary Project Proposal (https://courseworks2.columbia.edu/courses/154931/assignments/834540)	due by 11:59pm
Tue Sep 27, 2022	### 4156 RESTful APIs and RESTful demo (https://courseworks2.columbia.edu/calendar? event_id=419226&include_contexts=course_154931)	12am
Thu Sep 29, 2022	### 4156 RPC APIs and gRPC demo (https://courseworks2.columbia.edu/calendar? event_id=419242&include_contexts=course_154931)	12am
Mon Oct 3, 2022	Assignment T2: Revised Project Proposal (https://courseworks2.columbia.edu/courses/154931/assignments/834541)	due by 11:59pm
Tue Oct 4, 2022	4156 Mocking and Mocking/API Testing demo (https://courseworks2.columbia.edu/calendar? event_id=419227&include_contexts=course_154931)	12am
Thu Oct 6, 2022	4156 finish Mocking demo, API Testing (https://courseworks2.columbia.edu/calendar? event_id=419243&include_contexts=course_154931)	12am
	Unit Tests Are FIRST (https://courseworks2.columbia.edu/courses/154931/assignments/930481)	due by 10am
Tue Oct 11, 2022	4156 finish Equivalence Partitions and Docker demo (https://courseworks2.columbia.edu/calendar? event_id=419228&include_contexts=course_154931)	12am
Thu Oct 13, 2022	## 4156 Working in a Team and CheckStyle demo (https://courseworks2.columbia.edu/calendar? event id=419244&include contexts=course 154931)	12am
Tue Oct 18, 2022	4156 Finding Bugs and another API testing demo (https://courseworks2.columbia.edu/calendar? event_id=419229&include_contexts=course_154931)	12am
Thu Oct 20, 2022	### 4156 Finding Bad Code and gtest/gmock demo (https://courseworks2.columbia.edu/calendar? event_id=419245&include_contexts=course_154931)	12am
	middle of semester (https://courseworks2.columbia.edu/calendar? event_id=419356&include_contexts=course_154931)	12am

Date	Details	Due
	Coping with Hitchhikers and Couch Potatoes on Teams (https://courseworks2.columbia.edu/courses/154931/assignments/935884)	due by 10am
Mon Oct 24, 2022	Assignment T3: First Iteration (https://courseworks2.columbia.edu/courses/154931/assignments/834542)	due by 11:59pm
Tue Oct 25, 2022	### 4156 (In)Secure Coding (https://courseworks2.columbia.edu/calendar? event_id=419230&include_contexts=course_154931)	12am
Thu Oct 27, 2022	4156 Design Principles and bugfinder demo (https://courseworks2.columbia.edu/calendar? event_id=419246&include_contexts=course_154931)	12am
	A DevOps Cautionary Tale (https://courseworks2.columbia.edu/courses/154931/assignments/936730)	due by 10am
Mon Oct 31, 2022	Assignment T4: First Iteration Demo (https://courseworks2.columbia.edu/courses/154931/assignments/834543)	due by 11:59pm
Tue Nov 1, 2022	## 4156 Refactoring (https://courseworks2.columbia.edu/calendar? event_id=419231&include_contexts=course_154931)	12am
Tue 140V 1, 2022	First Individual Assessment available (https://courseworks2.columbia.edu/calendar? event_id=448038&include_contexts=course_154931)	12am
Thu Nov 3, 2022	## 4156 CI and github actions demo (https://courseworks2.columbia.edu/calendar? event id=419247&include contexts=course 154931)	12am
Fri Nov 4, 2022	First Individual Assessment (https://courseworks2.columbia.edu/courses/154931/assignments/834549)	due by 11:59pm
Mon Nov 7, 2022	academic holiday (https://courseworks2.columbia.edu/calendar? event_id=419357&include_contexts=course_154931)	12am
Tue Nov 8, 2022	university holiday no class (https://courseworks2.columbia.edu/calendar? event_id=419358&include_contexts=course_154931)	12am
Thu Nov 10, 2022	### 4156 Integration Testing and finish github actions demo (https://courseworks2.columbia.edu/calendar? event_id=419248&include_contexts=course_154931)	12am
Tue Nov 15, 2022	4156 Architecture and MVC (https://courseworks2.columbia.edu/calendar? event_id=419233&include_contexts=course_154931)	12am

Date	Details	Due
Thu Nov 17, 2022	4156 Design Patterns (https://courseworks2.columbia.edu/calendar? event_id=419249&include_contexts=course_154931)	12am
Tue Nov 22, 2022	4156 CLASS CANCELLED (https://courseworks2.columbia.edu/calendar? event_id=419234&include_contexts=course_154931)	12am
Wed Nov 23, 2022	academic holiday (https://courseworks2.columbia.edu/calendar? event_id=419359&include_contexts=course_154931)	12am
Thu Nov 24, 2022	university holiday (https://courseworks2.columbia.edu/calendar? event_id=419360&include_contexts=course_154931)	12am
Fri Nov 25, 2022	university holiday (https://courseworks2.columbia.edu/calendar? event_id=419361&include_contexts=course_154931)	12am
Mon Nov 28, 2022	Assignment T5: Second Iteration (https://courseworks2.columbia.edu/courses/154931/assignments/834544)	due by 11:59pm
Tue Nov 29, 2022	## 4156 Test Order and Auth0 demo (https://courseworks2.columbia.edu/calendar? event_id=419235&include_contexts=course_154931)	12am
Thu Dec 1, 2022	### 4156 Debugging and Test Suite Quality (https://courseworks2.columbia.edu/calendar? event_id=419251&include_contexts=course_154931)	12am
Mon Dec 5, 2022	Assignment T6: Second Iteration Demo (https://courseworks2.columbia.edu/courses/154931/assignments/834545)	due by 11:59pm
Tue Dec 6, 2022	4156 Questions about Assessment and Test Oracles (https://courseworks2.columbia.edu/calendar? event_id=419236&include_contexts=course_154931)	12am
Thu Dec 8, 2022	### 4156 Last Day Of Class (https://courseworks2.columbia.edu/calendar? event_id=419252&include_contexts=course_154931)	12am
Fri Dec 9, 2022	Second Individual Assessment (https://courseworks2.columbia.edu/courses/154931/assignments/834552)	due by 11:59pm
Mon Dec 12, 2022	last day of all classes (https://courseworks2.columbia.edu/calendar? event_id=419362&include_contexts=course_154931)	12am
Tue Dec 13, 2022	study days (https://courseworks2.columbia.edu/calendar? event_id=419364&include_contexts=course_154931)	12am

Date	Details	Due
Wed Dec 14, 2022	study days (https://courseworks2.columbia.edu/calendar? event_id=419382&include_contexts=course_154931)	12am
Thu Dec 15, 2022	study days (https://courseworks2.columbia.edu/calendar? event_id=419383&include_contexts=course_154931)	12am
Fri Dec 16, 2022	final exam period (https://courseworks2.columbia.edu/calendar? event id=419384&include contexts=course 154931)	12am
Mon Dec 19, 2022	final exam period (https://courseworks2.columbia.edu/calendar? event id=419387&include contexts=course 154931)	12am
	Assignment T7: Demo Day (https://courseworks2.columbia.edu/courses/154931/assignments/834546)	due by 4pm
Tue Dec 20, 2022	final exam period (https://courseworks2.columbia.edu/calendar? event_id=419388&include_contexts=course_154931)	12am
Wed Dec 21, 2022	final exam period (https://courseworks2.columbia.edu/calendar? event_id=419389&include_contexts=course_154931)	12am
Thu Dec 22, 2022	final exam period (https://courseworks2.columbia.edu/calendar? event_id=419390&include_contexts=course_154931)	12am
Fri Dec 23, 2022	final exam period (https://courseworks2.columbia.edu/calendar? event_id=419391&include_contexts=course_154931)	12am
	### 4156 class (https://courseworks2.columbia.edu/calendar? event_id=419124&include_contexts=course_154931)	
	### 4156 class: APIs (https://courseworks2.columbia.edu/calendar? event_id=419152&include_contexts=course_154931)	
	### 4156 class: coding (https://courseworks2.columbia.edu/calendar? event id=419142&include contexts=course 154931)	
	## 4156 class: continuous integration (https://courseworks2.columbia.edu/calendar? event_id=419128&include_contexts=course_154931)	

Date Details Due

4156 class: CRC cards

(https://courseworks2.columbia.edu/calendar? event_id=419149&include_contexts=course_154931)

4156 class: debugging

(https://courseworks2.columbia.edu/calendar? event id=419126&include contexts=course 154931)

4156 class: design patterns

(https://courseworks2.columbia.edu/calendar? event_id=419140&include_contexts=course_154931)

4156 class: design principles

(https://courseworks2.columbia.edu/calendar? event_id=419134&include_contexts=course_154931)

4156 class: equivalence partitions

(https://courseworks2.columbia.edu/calendar? event id=419143&include contexts=course 154931)

4156 class: finding bugs

(https://courseworks2.columbia.edu/calendar? event_id=419154&include_contexts=course_154931)

4156 class: insecure coding

(https://courseworks2.columbia.edu/calendar? event_id=419135&include_contexts=course_154931)

4156 class: introduction

(https://courseworks2.columbia.edu/calendar? event_id=419156&include_contexts=course_154931)

4156 class: MVC

(https://courseworks2.columbia.edu/calendar? event_id=419120&include_contexts=course_154931)

4156 class: project issues

(https://courseworks2.columbia.edu/calendar? event_id=419133&include_contexts=course_154931)

4156 class: refactoring

(https://courseworks2.columbia.edu/calendar? event_id=419127&include_contexts=course_154931)

4156 class: running tests

(https://courseworks2.columbia.edu/calendar? event_id=419139&include_contexts=course_154931)

4156 class: SE4ML

(https://courseworks2.columbia.edu/calendar? event_id=419158&include_contexts=course_154931)

4156 class: test doubles

(https://courseworks2.columbia.edu/calendar?

Date Details Due

event id=419148&include contexts=course 154931)

4156 class: test oracles

(https://courseworks2.columbia.edu/calendar? event_id=419150&include_contexts=course_154931)

4156 class: testing overview

(https://courseworks2.columbia.edu/calendar? event_id=419155&include_contexts=course_154931)

4156 class: UML

(https://courseworks2.columbia.edu/calendar? event_id=419136&include_contexts=course_154931)

4156 class: use cases and agile

(https://courseworks2.columbia.edu/calendar? event_id=419153&include_contexts=course_154931)

4156 class: user stories

(https://courseworks2.columbia.edu/calendar? event_id=419138&include_contexts=course_154931)

4156 class: working in teams

(https://courseworks2.columbia.edu/calendar? event id=419146&include contexts=course 154931)

academic holiday

(https://courseworks2.columbia.edu/calendar? event_id=419132&include_contexts=course_154931)

academic holidy

(https://courseworks2.columbia.edu/calendar? event_id=419144&include_contexts=course_154931)

Adjusted Team Project

(https://courseworks2.columbia.edu/courses/154931/assignments/975361)

class cancelled

(https://courseworks2.columbia.edu/calendar? event_id=419125&include_contexts=course_154931)

demo day

(https://courseworks2.columbia.edu/calendar? event_id=419122&include_contexts=course_154931)

Differential Factor

(https://courseworks2.columbia.edu/courses/154931/assignments/834547)

Edstem and/or Zoom Comments

(https://courseworks2.columbia.edu/courses/154931/assignments/880082)

Date Details Due

end of program change period

(https://courseworks2.columbia.edu/calendar? event_id=419121&include_contexts=course_154931)

first day of classes

(https://courseworks2.columbia.edu/calendar? event_id=419157&include_contexts=course_154931)

First Individual Assessment Ends

(https://courseworks2.columbia.edu/calendar? event id=419145&include contexts=course 154931)

First Individual Assessment Starts

(https://courseworks2.columbia.edu/calendar? event id=419147&include contexts=course 154931)

im last day of classes

(https://courseworks2.columbia.edu/calendar? event id=419151&include contexts=course 154931)

Roll Call Attendance

(https://courseworks2.columbia.edu/courses/154931/assignments/927960)

second individual assessment posted

(https://courseworks2.columbia.edu/calendar? event id=419141&include contexts=course 154931)

study day

(https://courseworks2.columbia.edu/calendar? event_id=419129&include_contexts=course_154931)

study day

(https://courseworks2.columbia.edu/calendar? event id=419137&include contexts=course 154931)

thanksgiving

(https://courseworks2.columbia.edu/calendar? event_id=419130&include_contexts=course_154931)

iii university holiday

(https://courseworks2.columbia.edu/calendar? event_id=419123&include_contexts=course_154931)

university holiday

(https://courseworks2.columbia.edu/calendar? event_id=419131&include_contexts=course_154931)