

SE 181

Intro to Software Engineering & Development

Course Overview

Dr. Filippos Vokolos

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Course Objectives

- Prepare so that you can become a successful member in a software engineering organization.
- Prepare so that eventually you will be able to manage a software engineering activity.
- Understand the Software Engineering profession.
 - How does Software Engineering fit into the world of computing?
 - What do Software Engineers do?
 - What are the issues they deal with?
 - How do they deal with these issues?
 - What do they do well and what do they do poorly?
 - Why “Engineering”?

Course Objectives (cont'd)

- Learn the defining characteristics of various software development **process models**, their advantages and disadvantages.
- Understand the **phases** that make up the traditional software development processes.
- Understand the significance of each phase, their current and future limitations.
- Learn how to **document** and formally present artifacts of the software engineering process.
- Know the IEEE/CS code of ethics for software engineers.

Topics

- The SE Discipline
- SW Process: Structure and Models
- Requirements Development and Specification
- Architectural and Component Design
- Software Implementation
- Software Testing

Instructor Information

Dr. Filippos I. Vokolos
3675MK; Room 1149
fvokolos@drexel.edu

Office Hours:

- Monday 10AM – 11AM
- Wednesday 11AM – 12PM

Teaching Assistants

- Mr. Reza Moradinezhad rm976@drexel.edu
Office Hours:
 - Wednesday 10AM– 12PM; Thursday 12PM – 2PM
- Mr. Himanshu Gupta hg387@drexel.edu
Office Hours:
 - Monday 8PM– 10PM; Tuesday 6PM – 8PM
- Mr. Matthew Chong cc3589@drexel.edu
Office Hours:
 - Monday 8AM – 10AM; Thursday 6PM – 8PM

Lecture Time and Location

- All lectures will be pre-recorded and made available online, in Blackboard, on the Monday of each week.
- There will be no face-to-face or live-streaming meetings for this course.

Texts

- *Required:*
Frederick P. Brooks, Jr., *The Mythical Man-Month*, Anniversary Edition, Addison-Wesley
- *Recommended:*
Roger S. Pressman and Bruce R. Maxim, *Software Engineering – A Practitioner's Approach*, 8th edition, McGraw-Hill.

Term Project

- A term project will provide you with the opportunity to develop a software application using recommended software engineering processes and techniques.
- For this project you will work as a member of a team with four other students.
- You have the option to select a team.
- Students unable to find a team will be assigned to a team by the instructor.

Final Exam

- The Final Exam will be given during Finals Week and will cover material from the entire course.
- Details about the Final Exam will be forthcoming.

Grading

- Grading Policy:
 - Term Project: 60%
 - Exam: 40%
- A corresponding letter grade will be assigned based on the student's calculated score as follows:

– [95-100] A+	[90-94] A	[85-89] A-
[80-84] B+	[75-79] B	[70-74] B-
[65-69] C+	[60-64] C	[55-59] C-
[50-54] D	[00-49] F	

Academic Honesty

- Academic Honesty:
 - The university's Academic Honesty policy – as it is described in the [Student Handbook](#) -- is in effect for this course.
 - Please make sure you are familiar with this policy.

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Summer 2020

Syllabus

Week	Topics
1 6/22/20	Course Introduction The Software Engineering Discipline Reading Assignment: Papers P1–P3 6/26/20: Submit Project Team Names 6/28/20: Project Teams Finalized and Announced
2 6/29/20	The Software Engineering Discipline Reading Assignment: Papers P4–P7
3 7/6/20	Software Process: Structure and Models
4 7/13/20	Requirements Development and Specification
5 7/20/20	Architectural and Component Design 7/20/20: Requirements Document is due 7/20/20: Midterm Team Evaluation Form is due
6 7/27/20	Software Implementation 7/29/20: Design Document is due
7 8/3/20	Software Testing
8 8/10/20	Software Testing 8/12/20: Test Cases Document is due
9 8/17/20	Project Management Reading Assignment: The Mythical Man-Month
10 8/24/20	Project Demos (Date and time for each group to be provided) 8/24/20: Final Project Submission is due 8/24/20: Final Team Evaluation Form is due
11 8/31/20	Final Exam (Date and logistics to be provided)

Legend: **Lecture topic**; Announcement; Assignment/Deliverable; Evaluation/Exam