Software Engineering (CS 454/554)
Ref. No: 10744/10768
Fall 2024

Course Objective

- To survey the field of software engineering and to study the methods, techniques, and theory of the state-of-the-art software development practice.

Class Homepage

- http://web.cecs.pdx.edu/~xie/se-f24/se-f24.htm

Instructor

- **Prof.** Fei Xie
  Office: FAB 120-10
  Phone: (503) 725-2403
  Email: xie@cs.pdx.edu
  Homepage: http://www.cs.pdx.edu/~xie

Office Hours

- By appointment

Prerequisites:

- Interests in learning software engineering

Meeting Time and Location

- M/W 11:30-1:20PM, KMC 480 / Hybrid

Textbooks

- **Recommended:** Ravi Sethi, *Software Engineering: Basic Principles and Best Practices*.

Grading

- **Homework:** 10%
  - One assignment per week
- **Exam**: 40%
  - Final Exam at 1230-1420PM on Dec. 12.
- **Individual term project**: 20%
  - A list of topics for term projects will be announced on Nov. 6.
  - The term project report is due on Dec. 4.
- **Group project and class participation**: 30%
  - Group programming project will be carried out throughout the term.
  - Project consists of four scrum sprint each of which is two weeks.

Class Schedules

	Dates	Topics	Readings	Dues
Week 1	Sep. 30	Introduction	Chapter 1	
	Oct. 2			
Week 2	Oct. 7	Software Development Processes	Chapter 2	
	Oct. 9			**Group Project Kick Off on Zoom**
Week 3	Oct. 14	User Requirements	Chapter 3	
	Oct. 16			
Week 4	Oct. 21	Requirements Analysis	Chapter 4	
	Oct. 23			**Group Project Demo 1 on Zoom**
Week 5	Oct. 18	User Cases	Chapter 5	
	Oct. 30			
Week 6	Nov. 4	Design and Architecture	Chapter 6	
	Nov. 6			**Group Project Demo 2 on Zoom** **Term Project Topic Announcement**
Week 7	Nov. 11	Architecture Patterns	Chapter 7	**(Veterans Day; No Class)**
	Nov. 13			
Week 8	Nov. 18	Static Checking	Chapter 8	
	Nov. 20			**Group Project Demo 3 on Zoom**
Week 9	Nov. 25	Testing	Chapter 9	
	Nov. 27			
Week 10	Dec. 2	Quality Metrics	Chapter 10	
	Dec. 4			**Group Project Demo 4 on Zoom** **Term Project Due**

(This schedule is subject to changes according to the need of the class. All suggested readings are from the recommended textbook, *Software Engineering: Basic Principles and Best Practices* by Ravi Sethi)

Academic Integrity

- Academic misconducts will be handled according to the rules of the Department of Computer Science, Maseeh College of Engineering and Computer Science, and Portland State University.