

SYLLABUS (SPRING 2009)

Faculty	Soo Dong Kim	Subject	Software Engineering	Course Type	Major Elective
Target Students	3 rd & 4 th year in Computer Science	Credit Hours	3.0	Hours	3
Phone	02-820-0909	Email	sdkim@ssu.ac.kr	Home Page	http://soft.ssu.ac.kr
Office	21326	Office Hours	3pm ~ 4pm, Monday and Wednesday		

1. Course Overview and Goals

Software engineering is a comprehensive study of theories, processes, and methods for building *high-quality* software in *cost-effective* ways. The course consists of four main topics; ①software project management, ②conventional development methodology, ③object-oriented development methodology, and ④recent trends in software development technology.

Prerequisites: ① Data Structure ② Programming in C++ or Java

2. Class Organization

The class meets 3 hours each week. Assignments will be given. Intensive class participation and discussions are highly encouraged.

3. Evaluation

Assignments	: 30 %
Midterm Exam	: 30 %
Final Exam	: 30 %
<u>Attendance</u>	: 10 %
TOTAL	: 100 %

4. Textbooks and Supplementary Materials

Main Textbook: Pressman, Roger S., *Software Engineering: A Practitioner's Approach*, 6th Edition, McGraw Hill, 2004.

Supplementary Materials: Will be provided in classes.

5. Lecture Overview

Week	Lecture Content	Lecture Method	Remarks
1	. Course Overview . Chapter 1. Introduction to Software Engineering	Lecture & Discuss	
2	Chapter 2. Process Models	Lecture & Discuss	
3	Chapter 3. Requirement Engineering	Lecture & Discuss	Assignment #1
4	Chapter 4. Structured Analysis and Design (1)	Lecture & Discuss	
5	Chapter 4. Structured Analysis and Design (2)	Lecture & Discuss	Assignment #2

6	Chapter 5. Object-Oriented Analysis and Design (1)	Lecture & Discuss	
7	Chapter 5. Object-Oriented Analysis and Design (2)	Lecture & Discuss	Assignment #3
8	Chapter 5. Object-Oriented Analysis and Design (3)	Lecture & Discuss	Midterm Exam
9	Chapter 6. Software Architecture	Lecture & Discuss	
10	Chapter 7. Project Management	Lecture & Discuss	Assignment #4
11	Chapter 8. Software Metrics	Lecture & Discuss	
12	Chapter 9. Estimation Techniques	Lecture & Discuss	Assignment #5
13	. Chapter 10. Project Scheduling . Chapter 11. Risk Management	Lecture & Discuss	
14	Chapter 12. Quality Management	Lecture & Discuss	Assignment #6
15	Chapter 13. Change Management	Lecture & Discuss	
16	. Chapter 14. Formal Methods . Course Wrap-up	Lecture & Discuss	Final Exam

6. Policies

On the Lecture

- You should **TURN OFF** your mobile phone. (Manner / Vibration mode is not allowed.)
- Do NOT leave classroom to answer your mobile phone.
- Do NOT record the lecture using voice recorders.

On Attendance

- One absence for class is excused without a penalty. Each subsequent absence will result in a loss of one point for the attendance score.
- Being tardy to the class 3 times will be identical to one absence.

On Assignments

- Assignments are due at the beginning of the class.
- Assignments should be submitted in hard copy form unless other form is specified.
- For a late assignment, there will be a 10% penalty for each school day.
- Excessively similar or identical assignments will be given 'zero' point.

On Course Web Site

- Some of supplementary materials will be posted on the course web site.
- Materials will only be provided in PDF. The PowerPoint version of the materials is NOT provided.