

Software Engineering

HUANG Jie

School of Software Engineering

Tongji University, 2022



同濟大學
TONGJI UNIVERSITY

Course Objectives

- Master the key concepts, activities, processes, methods and models in Software Engineering.
- Practice of course project development, including but not limited the following tasks, requirement gathering & analysis, modelling, designing, coding, testing, configuration and team management, write down the relevant documents (e.g., requirements specification, software specification, source code, test cases etc.).
- Understand the relevant Knowledge Areas/Modules/Points of Software Engineering Body of Knowledge(SWEBOK V3.0).
- Building development team for course project. The team consists of at most 3 students (including 3 people).

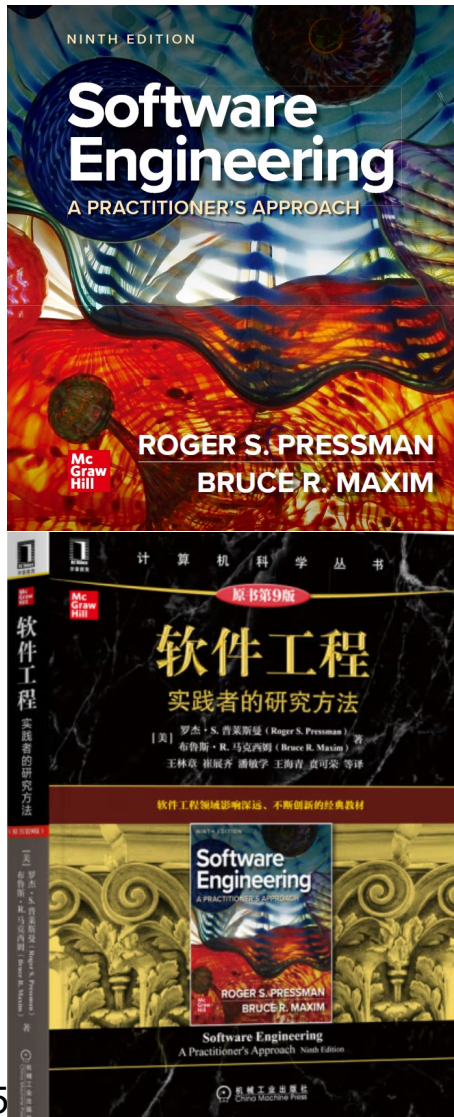
Course Outline

- Teaching Duration: **Aug.31th** 2022 to **Dec.21th** 2022.
- Final Exam Date: **TBD**, by teaching affairs administrator of SSE.
- Scoring (100%=40%+40%+20%)
 - Final Examination (**60%**, closed book examination);
 - Course project Design & Development (**20%**)
(50% Documents + 50% on site Demo & Presentation)
 - Course Assignments and Attendance (**20%**)
- According to the university regulations, if one third or more of attendance are **absent**, the student will **not** be allowed to take the final examination and get **zero** score.

Schedule

No.	Week	Date	Contents	Teacher
1	1	22' 8/31	The Nature of Software	Huangjie
2	2	9/7	Software Engineering & its discipline	Huangjie
3	3	9/14	Software Process Structure	Huangjie
4	4	9/21	Process Models	Huangjie
5	5	9/28	Agile Development	Huangjie
6	6	10/5	Human Aspects of Software Engineering & TEST I	Huangjie
7	7	10/12	Principles that guide practice	Huangjie
8	8	10/19	Understanding Requirements	Huangjie
9	9	10/26	Requirement Modeling I	Huangjie
10	10	11/2	Requirement Modeling II	Huangjie
11	11	11/9	Requirement Modeling III	Huangjie
12	12	11/16	Requirement Analysis and Specification & TEST II	Huangjie
13	13	11/23	Software Design Concept I	Huangjie
14	14	11/30	Software Design Concept II	Huangjie
15	15	12/7	Component Level Design I	Huangjie
16	16	12/14	Component Level Design II	Huangjie
17	17	12/21	Review and Q&A	Huangjie
18	18	TBD	Final Examination	Huangjie

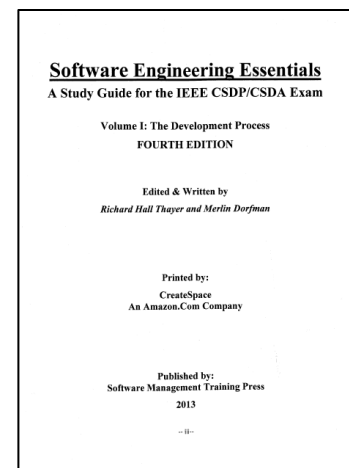
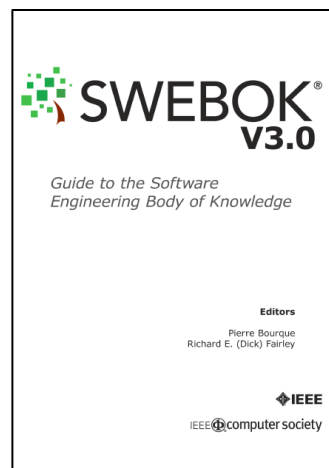
Textbook



- Roger S. Pressman, et al.
Software Engineering: A Practitioner's Approach
9th Edition.
McGraw-Hill Education. 2019.
- Roger S. Pressman, et al.
王林章 等译.
软件工程 实践者的研究方法, 第9版
北京: 机械工业出版社, 2021.

Reference Books and Materials

- Shari Lawrence Pfleeger et al.
软件工程 4th Edition. 北京, 人民邮电出版社, 2019.
- ACM/IEEE.
Guide to the Software Engineering Body of Knowledge (3rd) 2014.
<http://www.computer.org/portal/web/swebok/swebokv3>.
- R.H.Thayer and M.Dorfman.
Software Engineering Essentials vol.1-vol.3.
Software Management Training.2013.



Teacher's Info.

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- **Email:** huangjie@tongji.edu.cn
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- **Links** to the course materials:
 - <http://canvas.tongji.edu.cn/courses/64341>

Course's Info.

帐户

控制面板

课程

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培训课

←

2022-2023 学年 第1 学期

主页

公告

作业

讨论

评分

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页面

文件

大纲

结果

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