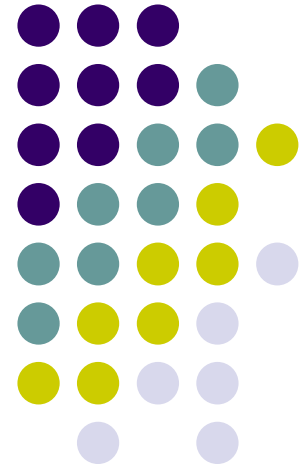


INTRODUCTION TO SOFTWARE ENGINEERING (CT114H)

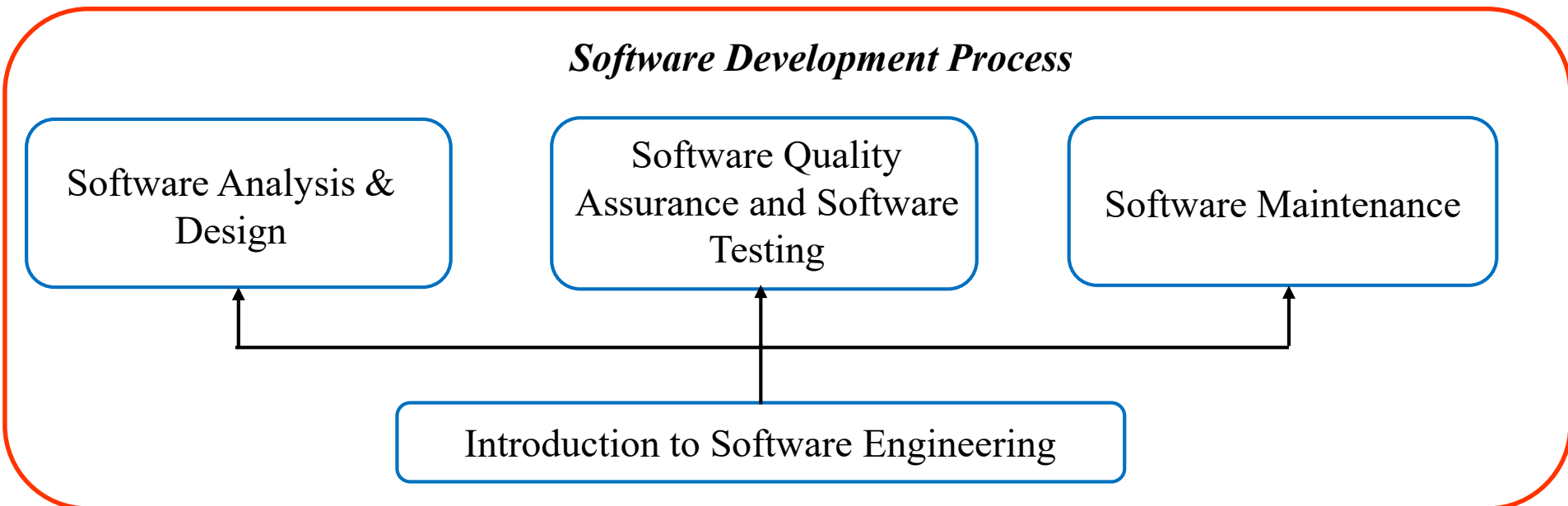
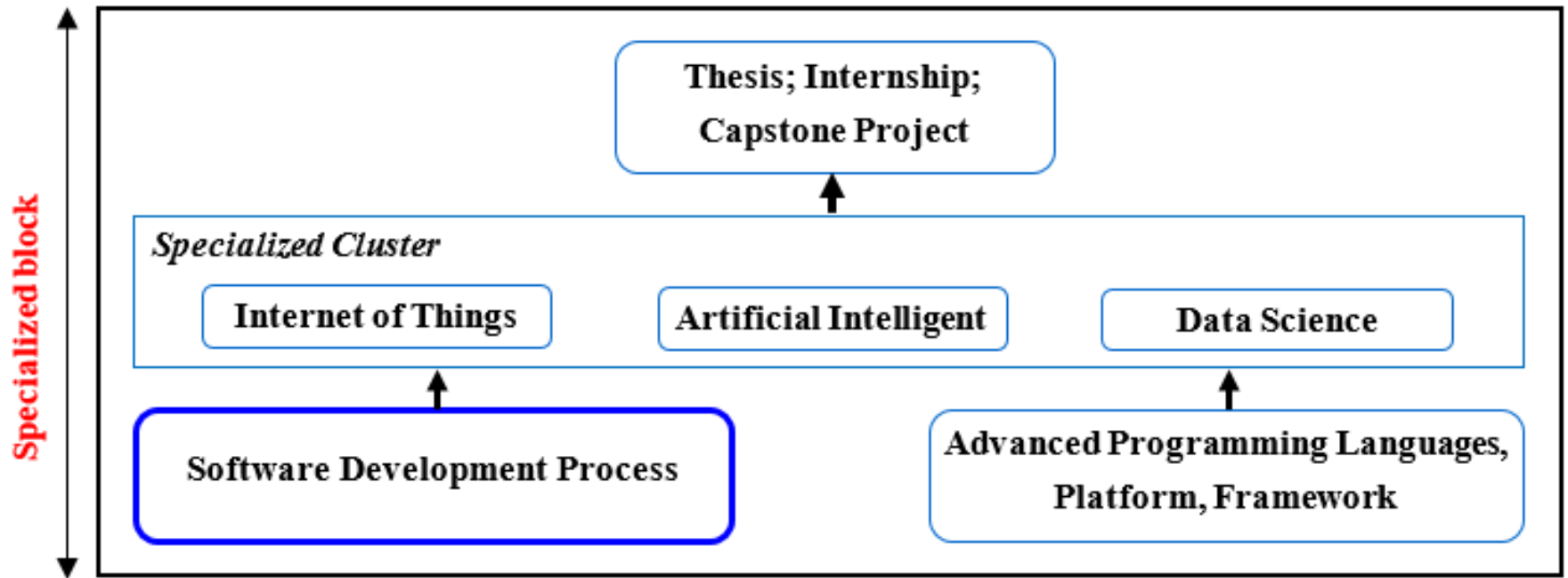
Overview of Course
(20 theory hours + 20 lab hours)

Ph.D Phan Phương Lan
(pplan@ctu.edu.vn)



Outline

- Course learning outcomes
- Course content
- Textbook and references
- Course schedule



Course Learning Outcomes

Knowledge

- Explain **terminology** used in software engineering (SE), the **importance** of SE, the **phases** of software development, the characteristics of well-known software process **models** and the required tasks in **software project management**.
- Specify the steps of process for **capturing requirements**, the **design** contents, the **programming** contents, the steps and methods of software **testing**, and the tasks for **deploying** and **maintaining** software systems.
- Distinguish the software **measurement** and **cost estimation** methods.

Skills

- Implement the software development for a project (emphasis on **analysis**, **design**, and **unit test**).
- Improve **technical writing** skills.
- Learn to **work with a group**.

Attitudes/Autonomy/Responsibilities

- Have conscious to develop a software product according to **process** and **quality** assurance.

Course Content

- Part I: Overview of software engineering
- Part II: Software process
- Part III: Software measurement and
cost estimation

Course Content

- Part I: Overview of software engineering
 - What is software engineering?
 - Software process models
 - Software project management
 - Project schedule
 - Project personnel
 - Quality management
 - Software configuration management
 - ...

Course Content

- Part II: Software process
 - Software specification
 - Design
 - Implementation
 - Validation (software testing)
 - Deployment
 - *Software maintenance*


Course Content

- Part III: Software Measurement and Estimation
 - Software metrics
 - Cost estimation

Textbook and References

CTU E-learning: Tất cả các khóa x +

elearning.ctu.edu.vn/course/index.php?categoryid=45

 **CTU e-Learning**
Hệ thống Học tập trực tuyến

Class web:
<https://elearning.ctu.edu.vn/course/view.php?id=1767>

Trang chủ Các khóa học của tôi Vietnamese (vi)

Trang chủ > Các khóa học của tôi > Trường Công nghệ Thông tin & Truyền thông > Khoa Công Nghệ Phần Mềm

Danh mục khóa học: Trường Công nghệ Thông tin & Truyền thông / Khoa Công Nghệ Phần Mềm

1 2 »

- ➔ [2023-2024.HK2.CT24201] Kiến trúc & Thiết kế phần mềm (Huỳnh Xuân Hiệp) ⓘ
- ➔ [2023-2024.HK2.CT22305] Quản lý dự án phần mềm (Huỳnh Xuân Hiệp) ⓘ
- ➔ [2023-2024.HK2.CT22303] Quản lý dự án phần mềm (Huỳnh Xuân Hiệp) ⓘ
- ➔ [2023-2024.HK2.CT22304] Quản lý dự án phần mềm (Huỳnh Xuân Hiệp) ⓘ
- ➔ [2023-2024.HK2.CT22306] Quản lý dự án phần mềm (Huỳnh Xuân Hiệp) ⓘ
- ➔ [2023-2024.HK2.CT22302] Quản lý dự án phần mềm (Huỳnh Xuân Hiệp) ⓘ
- ➔ **CT114H - Nhập môn Công nghệ phần mềm/Introduction to Software Engineering (GV: Phan Phuong Lan)** ⓘ ⓘ

Software Engineering

THEORY AND PRACTICE

THIRD EDITION



SHARI LAWRENCE PFLEGER
JOANNE ATLEE

SOMMERVILLE

SOFTWARE ENGINEERING

9





T.S. HUỖNH XUÂN HIỆP
Th.S PHAN PHƯƠNG LAN
Nhập Môn
CÔNG NGHỆ PHẦN MỀM

Giá:.....

T.S. HUỖNH XUÂN HIỆP - Th.S PHAN PHƯƠNG LAN



Nhập Môn

CÔNG NGHỆ PHẦN MỀM

T.S. HUỖNH XUÂN HIỆP
Th.S PHAN PHƯƠNG LAN

Nhập Môn **CÔNG NGHỆ PHẦN MỀM**



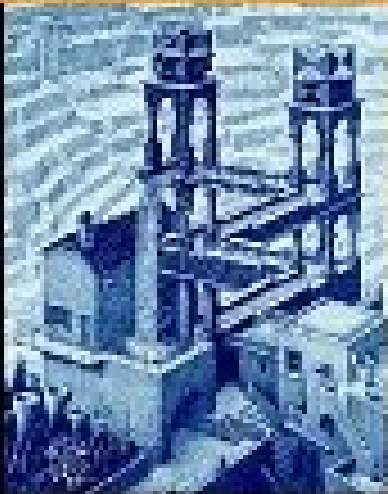
NHÀ XUẤT BẢN ĐẠI HỌC CẦN THƠ

Textbook and References

- *References:*
 - Hans Van Vliet, Software Engineering principles and practice, John Wiley, 2000.
 - Pressman, Roger S., Software Engineering: A Practitioner's Approach, McGraw-Hill, 5th edition, 2003.
 - ...

HANS VAN VLIET

SECOND EDITION



Software Engineering

Principles and Practice

WILEY

Software Engineering

A Practitioner's Approach

Seventh Edition

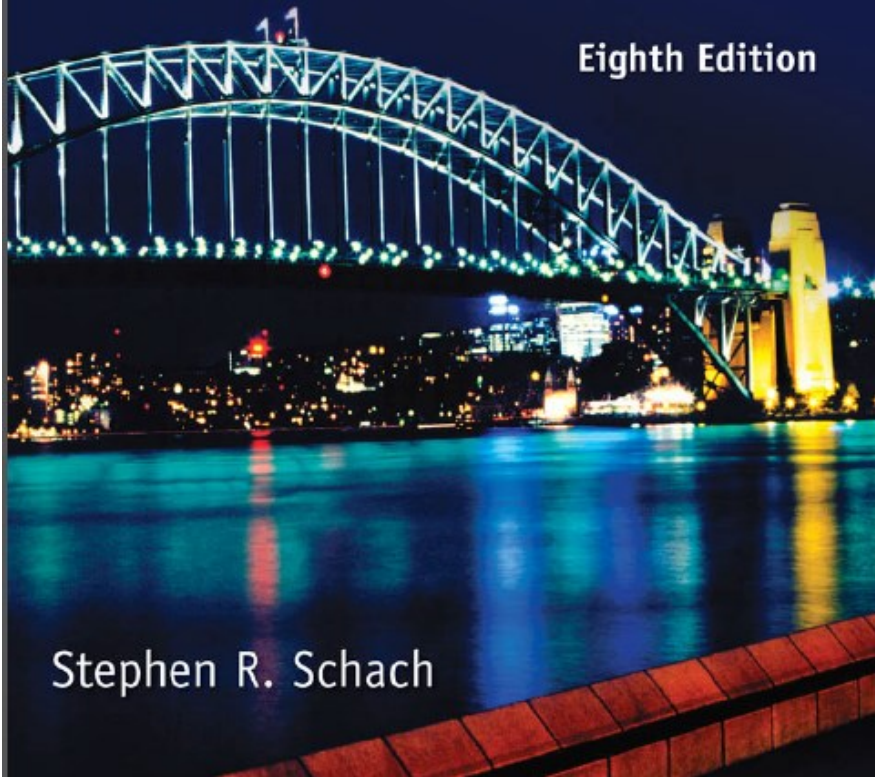


Roger S. Pressman

Object-Oriented and Classical Software Engineering

Eighth Edition

Stephen R. Schach



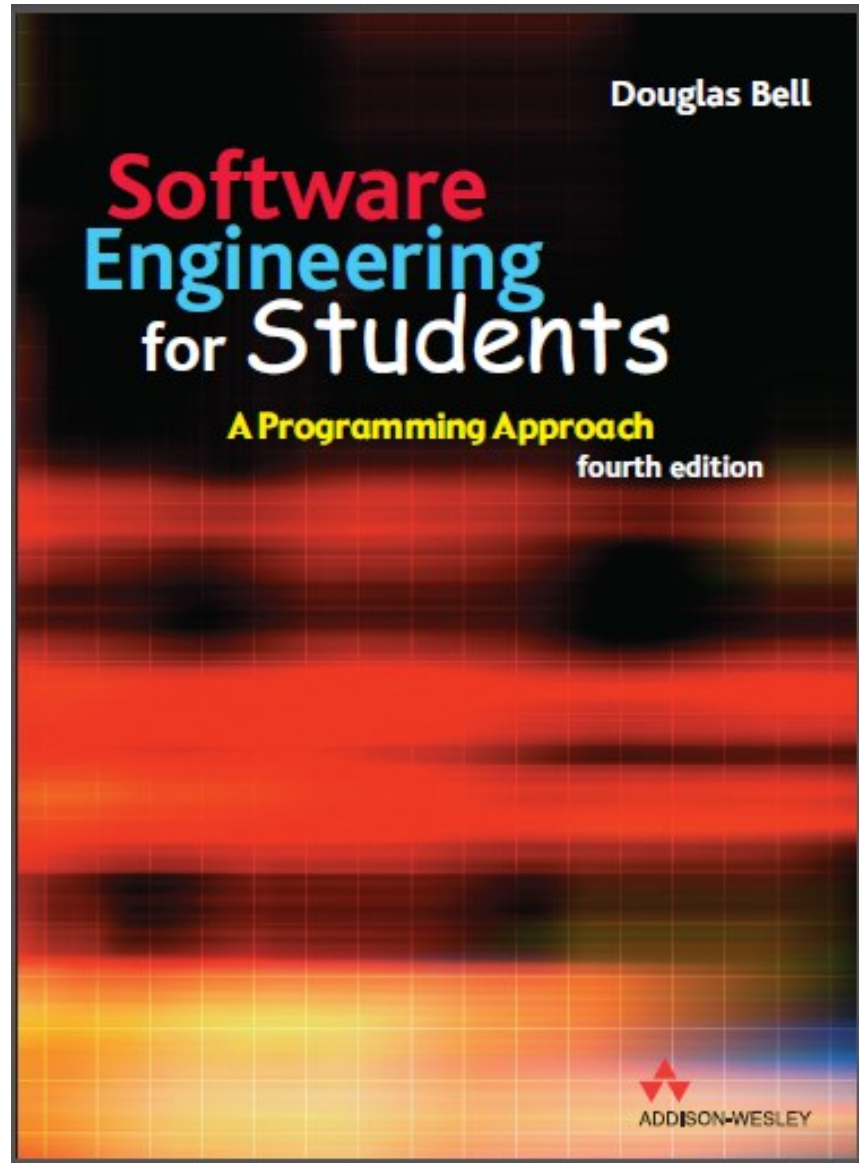
Douglas Bell

Software Engineering for Students

A Programming Approach

fourth edition


ADDISON-WESLEY



Assessment

- Group project: 40%
- Exams: 25% + 35%

Assessment - Group project

- A group of 3 - 4 students.
- Propose a software to be developed.
- A set of final version deliverables - plan, analysis, design, unit test documents and source code (if any) - is required to be submitted at the end of semester.

Course Schedule

- Lecture:
 - CT114HM01, 07:00 Wednesday, week: 1-4, 6, 9, 11-13, 15.
 - CT114HM02, 13:30 Wednesday, week: 1-4, 6, 9, 11-13, 15.
- Lab:
 - CT114HM01, 07:00 Wednesday, week: 5, 10, 14, 17.
 - CT114HM02, 13:30 Wednesday, week: 5, 10, 14, 17.
- Project presentation: week 17
- Final exam: week 18

Q&A