

# Introduction

# CS160: Software Engineering

Instructor: Weiwei Tsao, PhD

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- Office Hours: 7:00-7:30pm or by appointment
- Class time: 7:30-8:45pm

Text:

- Ian Sommerville  
*Software Engineering (10th Edition)*,  
Pearson, 2015.  
ISBN-10: 0133943038  
ISBN-13: 978-0133943030

Prerequisites:

- CS 146, CS 151 (with a grade of "C-" or better in each)
- CS 100W (with a grade of "C" or better) or instructor consent.

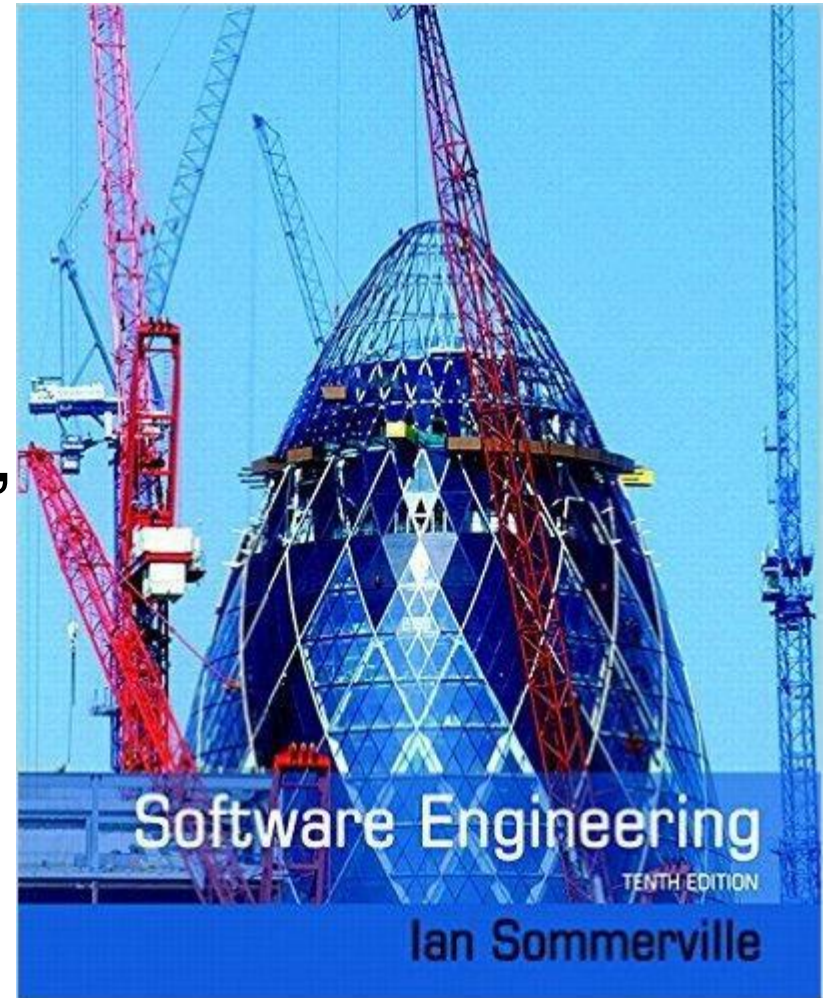
# Textbook for the Course

Software Engineering  
(10th Edition)

By: Ian Sommerville

Published by: Pearson,  
2015.

ISBN-10: 0133943038



# Important Dates

- Class starts: Tue, August 21
- Midterm Exam: Thur, Oct 11 (7:30-8:45pm) MH-233
- Class ends: Tue, Dec 06
- Final Exam: Thur, Dec 13 (7:30-9:45pm) MH-233

What is software engineering?

# Software Engineering Principles

- Separation of Concern
- Modularity
- Abstraction
- Anticipation of Change

# Course Description

This course provides an introduction to the methodology of software engineering.

- Requirements
- Design
- Implementation
- Maintenance
- Security
- Testing
- Debugging
- Project management

# Course Goals

- Learn information
  - software engineering terminology
  - phases of the software lifecycle
  - best practices for running projects
- Experience process
  - problems of real development teams
  - apply techniques to software projects
  - understand why these techniques are used



# Course Overview

Important to learn the terminology, concepts, and language of a development team.

Participate in team-based software engineering project that will span the entire software lifecycle.