

**EECS 448 (4 Credit Hours)**  
**Software Engineering I**  
**Spring 2015**

**Instructor:** Swapan Chakrabarti

**Office Hours:** 2:00 – 3:00 PM; M, W, & F at 3022 Eaton Hall

**Prerequisites:** EECS 268 and upper level EECS eligibility.

**Text:** “Software Engineering”  
Edition: 9  
Author: Ian Sommerville  
Publisher: Addison-Wesley

**Course Topics:**

1. Introduction to Software Engineering
2. Software Processes
3. Requirements and Specifications for a software system
4. System Modeling, Design, and Planning for software Development
5. Forming Teams, Identifying Tools, and Laying Out Project Management Structure
6. Software Implementation and Integration
7. Software Validation and Testing
8. Software Evolution and Maintenance
9. Development of a realistic software package using basic Principles of Software Engineering

(Covers Book Chapters 1-9, and supplementary materials will be provided throughout the course duration)

**Grading Policy:**

First Exam	20%
Final Exam	25%
Homework	15%
Semester Project	15%
Laboratory Assignments	25%
90% and above	“A”
80% ≤ Grade < 90%	“B”
70% ≤ Grade < 80%	“C”
60% ≤ Grade < 70%	“D”
60% ≤ Grade	“F”