



Department of Computer Science
CMPT 456 Software Engineering
Course Syllabus Spring 2016

Instructor

Ankur Agrawal

Email: ankur@manhattan.edu

Course Website: <http://ankur-agrawal.com>

Office Hours: W 3:30 pm – 4:30 pm, R 4:30 pm – 5:30 pm or by appointment in RLC 203

Class Hours: MR 3:00 pm – 4:15 pm in RLC 107

Overview

A study of the principles and methods advocated for the development of large and complex software systems. Each student will be required to participate in a team project devoted to the specification, design and implementation of a sizable software system.

Prerequisites

A grade of C or better in CMPT 335 or CMPT 360 or permission of instructor.

Textbook

Software Engineering, 10th Edition by Ian Sommerville, ISBN-10: 0-13-394303-8 ISBN-13: 978-0-13-394303-0

Course Objectives

- Acquire deep understanding of the phases of the software development process
- Understand the principles and practices of software process management
- Demonstrate proficiency in the selection of process management techniques
- Apply process management skills and knowledge to a group software project

Tentative List of Topics

- Introduction to software engineering
- Software engineering ethics
- Software process models
- Agile software development
- Requirements engineering
- System modeling
- Architectural design decisions
- Software testing
- Software evolution



Grades (Method of Evaluation)

- Group Project worth 30%
- Class and take-home assignments worth 30%
- Multiple quizzes worth 30%
- ETS test, class performance and attendance worth 10%

Final grades will be based on the following scale: A (95-100), A- (90-94), B+ (85-89), B (80-84), B- (75-79), C+ (70-74), C (65-69), C- (60-64), D (50-59), F (<50). The instructor reserves the right to adjust the grading percentages and scale if necessary.

Success in Class

- Read the assigned pages in the book as per the class discussion.
- Do as many exercises as possible even if they are not assigned.
- Ask questions about parts of reading or lecture which you do not understand.

Get help before you are completely lost. I am available to help you via e-mail, in the classroom, or in my office.

Attendance Policy

Attendance in every lecture is mandatory. Being in the class on time is equally important too. Any absence for valid reason will be required to be supported with proper documentation.

Cheating Policy

Cheating on a programming assignment will result in zero credit for all students involved. Programming assignments may not be solved in collaboration, unless specifically stated in the assignment. Cheating on an exam will result in an "F" in the course. You may discuss problems with each other. Where does discussion end and cheating start? You may not copy lines of code from anybody or anywhere. You may not use code in your assignments that you did not write. As a general rule, if you don't understand the code and can't explain the code, you can't use the code.

Center for Academic Success

Tutoring and support to students is offered in the Learning Center (DLS 206), Leo Learning Center (Leo 117) and the Writing Center (Mig 203). For more information please visit:

<http://manhattan.edu/academics/center-academic-success>

Policy on Students with Disabilities

Students with Disabilities should contact the Specialized Resource Center with their appropriate documentation, to obtain an "Academic Adjustment/Auxiliary Aid" form. When the student presents this completed form to the professor, the professor will then confer with the student on the fulfillment of the adjustments/aids listed on the form.

Academic Integrity Expectation

In accordance with the Manhattan College policy on Academic Integrity, students are expected to do their own work. If they use somebody else's work, then that fact should be documented. Individual work is to be done individually and not copied from others and it is expected that you will perform all



exams without consulting others and do your own work on any assignments. Consulting with others on general approaches to take in an assignment is considered acceptable, but copying assignments from others or working the majority of the assignment together is not acceptable. Of course group work is done in a group. See <http://manhattan.edu/community-standards-and-student-code-conduct> for more information on Manhattan College policy on Academic Integrity.