Course Syllabus for CSE 216: Software Engineering

Gang Tan

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Course Website. A public website is at http://www.cse.lehigh.edu/~gtan/teaching/cse216s10/. Course slides will be posted in Blackboard.


The following two books are optional (these books are put on course reserve at the Fairchild-Martindale Library):

- Design Patterns: Elements of Reusable Object-Oriented Software, by Erich Gamma, Richard Helm, Ralph Johnson, and John M. Vlissides, Addison-Wesley 1994.

- UML Distilled, Martin Fowler. Addison Wesley.

Major topics covered.

1. Software Development Processes
2. Requirements Engineering
3. Software Architecture
4. Unified Modeling Language (UML)
5. Design Patterns (Object-Oriented Analysis & Design)
6. Project Management (including Project Planning, Cost Estimation, and others)

7. Software Quality (Reusability, Maintainability, etc.)

8. Software Testing; Program Verification

9. Use of CASE Tools (NetBeans)

Accommodations for Students with Disabilities. If you have a disability for which you are or may be requesting accommodations, please contact both your instructor and the Office of Academic Support Services, University Center 212 (610-758-4152) as early as possible in the semester. You must have documentation on file in the Academic Support Services office before accommodations can be granted.

Attendance. Attendance is expected. Students who have legitimate reasons for absence have to inform the instructor before the fact. You are responsible for all materials presented in class whether present or not.

Readings. Chapters from the textbook and other reading materials will be assigned; information available on the public course website.

Homework. You will periodically receive homework assignments that are to be turned in and will be graded. You may discuss the homework with other students in the class, but you must do your own work; you may not copy someone else’s solution. Homework will be of two types, written assignments and programming assignments.

Assignments and their due dates will be announced on the course website.

Late Homework. If you submit your homework within three days of the due date, we will deduct 20% of your score. Within a week, we will deduct 40%. We will not accept homework submissions after a week. Timely grading of late homework is not guaranteed.

Quizzes. You will be given several short quizzes at the beginning of classes throughout the semester. The quizzes will be unannounced and will be on topics in several previous lectures and assigned reading materials.

Class project. For the Class Project, you will work in groups. You will have a number of “deliverables” for the project. For each deliverable, you will turn in an individual report discussing the process your group used to produce the deliverable, who contributed what, and your assessment of how effective the process was. Detailed requirement and format of the class project will be announced later.
**Exams.** There will be a midterm exam and a final exam. Dates and location of the exams will be announced.

**Missed Exams.** Make-up for missed exams will only be granted on a case-by-case basis.

**Grading.** Homework 30%; Class project 20%; Quizzes 5%; Midterm 20%; Final exam 25%.

**Academic Integrity.** Academic integrity is crucial for the pursuit of knowledge. Please refer to Lehigh’s policy of academic integrity for any confusion.

**Feedback.** The success of this course need a mutual communication between course staff and students. We welcome your feedback on anything related to the course, such as course material we covered, teaching techniques, and difficulties in finishing the homework and project. We need your input!