

Syllabus

CS 350 / CS 550 Software Design and Development Clarkson University Fall, 2008

Instructor: Joachim Stahl

Website: Blackboard

Email: jstahl@clarkson.edu

Meeting times: TTh 4:00PM – 5:15PM

Location: Snell 175

Office Hours: TTh 2:00PM – 3:30PM and W 10:00AM – 12:00PM

Description:

This course will expose students to the methods of developing large software systems in an industrial environment. Working in teams, students will design, implement, and test large projects. The work will include oral presentations and written reports.

Course Objective:

Students should become familiar with and learn the basics of:

- The design and development of large and complex software projects.
- Group work, task delegation, time management and communication.
- Use of tools for aid in the development process.

Outcome:

- Students will complete a large programming project in teams.
- Students will learn about and produce documentation that should accompany large software products.
- Students will learn to think about software from the perspective of customers, designers, programmers, maintainers, users and owners.
- Students will understand and experience the full software life cycle.
- Students will learn tools to help them become more efficient programmers.

Textbook (required):

Object-Oriented Software Engineering: Using UML, Patterns, and Java by Bernd Bruegge and Allen H. Dutoit, 2nd Ed. Prentice Hall, 2004 (ISBN 0-13-0471100)

Methods of Evaluation:

The most important component of evaluation will be a semester long group project. In addition, there will be one mid-term exam and a final exam, as well as homework projects. Attendance and participation in class will also be graded, and quizzes will be assigned randomly during the semester.

The final grade will be computed on the total score weighted as follows:

Attendance, Participation & Quizzes	10%
Mid-term Exam (Oct. 16, tentative)	15%
Final Exam (Dec. 8 to 12, TBA)	25%
Project	50%

Project:

Evaluation of the main project will be ongoing during the semester, with students handing in written reports of their progress, as well as doing presentations in class. The final presentation will include a live demo of the project.

Grading scheme:

The grading scheme, with the final score between 0 and 100, will be:

A	≥ 90
B+	≥ 85
B	≥ 80
C+	≥ 75
C	≥ 70
D+	≥ 65
D	≥ 60
F	< 60

Exams:

Each student is expected to take the mid-term and final exams at the assigned time. Should a conflict arise, you must notify me personally *before* the scheduled exam time. Do not simply send an email an hour before the exam, the result will be a failing grade. Students who follow these guidelines will be given a make-up exam as close to the regular exam date as possible.

Submission of Assignments:

All assignments requiring the students to submit work (homework, projects, etc.) will be submitted electronically before the assigned deadline. Assignments not submitted or submitted after the deadline will receive an automatic failing grade.

Academic Integrity and Cheating Policy:

All work you submit must be your own individual work unless explicitly indicated. In particular, work taken from books, the Internet, other students or any other source may not be submitted as your own. Students found cheating in an assignment will receive a failing grade for that assignment on the first offense, and a failing grade for the course on the second. Students found cheating on an exam will receive a failing grade for the course. Additionally, students found cheating will be subject to academic penalties and disciplinary sanctions under Clarkson's official regulations. Additional information about rights, obligations and procedures related to academic integrity can be found in Section IV of Clarkson's official regulations.

Disclaimer:

The instructor reserves the right to amend this Syllabus during the semester to adapt it to the needs of the course. Any changes will be announced in class and on the class website.