

SOEN 390

Software Engineering Team Design Project (3.5 credits)

Dept. of Computer Science and
Software Engineering

Syllabus – Winter 2012

Concordia University

Instructor: Dr. Olga Ormandjieva, ormandj at cse.concordia.ca
Tel.: 848-2424 x7810
Office: EV3.165, **office hours:** Fridays 2pm-3pm or by appointment

Tutors: Tamer Abdou & Zhu Ming

Lectures: --M-- 16:15 - 17:55 (FG B030 or H929)

Tutorials: --M-- 18:15 – 19:05 (H929 or H817)

Labs: SA: ---J--- 13:35-16:15, H929
SB ---T--- 15:45-18:25, H817

Prerequisite: SOEN 344 and 357 previously or concurrently.

Course webpage: http://users.encs.concordia.ca/~s390_4/

Course mailing list: soen390_W12 at encs.concordia.ca

Course Calendar Description

“Students will work in teams to design and implement a software project from requirements provided by the coordinator. Each team will demonstrate the software and prepare adequate documentation for it. In addition, each student will write an individual report.

Lectures: two hours per week. Tutorial: one hour per week. Laboratory: three hours per week”.

Course Content

Software engineering not only embodies a set of key concepts and principles, it also entails a set of skills. Without proficiency in at least some of these skills, you cannot call yourself a software engineer. This project will help you get a taste of these skills as well as experience the key lessons of software engineering first-hand. In addition to all the other skills and lessons that are to be conveyed, you will also be learning how to cooperate and communicate effectively. In this project, you and your teammates will be defining a software product and seeing it through every stage of development. We will follow the Agile development approach and use supporting project management tools for tracking progress against the plan, communicating about estimates, plans and progress, and then refining the plan based on the observations. Because of the short span of this class, you are not expected to deliver a marketable product, but the result should be at least a compelling prototype that could serve as the basis for defining a real product.

References:

Paul Ammann and Jeff Offutt, [Introduction to Software Testing](#), Cambridge University Press, Cambridge, UK, ISBN 0-52188-038-1, 2008.

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Schedule and Evaluation

Iterations	Start-End	Weight
Iteration 0	Jan.5 – Jan.16	5%
Iteration 1 Demo: January 30	Jan17 – Jan.30	10%
Iteration 2 Demo: February 13	Jan.31 – Feb.13	15%
Iteration 3 Demo: February 27	Feb.14 - Feb.27	15%
Iteration 4 Demo: March 12	Feb.28 - Mar.12	15%
Iteration 5 Demos: Mar.19	Mar.13 - Mar.26	15%
Iteration 6 Final Demo: Apr.9	Mar.27 - Apr.9	25%

There is no standard relationship between percentages and letter grades assigned for this course.

Note: It is your responsibility to adhere to the *university's code of conduct* as detailed in the calendar (e.g. Section [16.3.14](#)).

Course accreditation requirements

To satisfy course accreditation requirements, the ENCS faculty is starting to introduce attribute assessment and evaluation to each of the offered courses. SOEN390 is one of the courses selected for this new accreditation assessment. The attribute evaluated in this course is:

Communication

“An ability to communicate complex engineering concepts within the profession and with society at large. Such abilities include reading, writing, speaking and listening, and the ability to comprehend and write effective reports and design documentation, and to give and effectively respond to clear instructions”.

Categories of communication

Written – the students produce a variety of software technical documents, such as Software Requirements, Release and Iteration Plans, Testing Plan, Measurement Plan, and User Guide.

The templates will be available for download from the course website. **Evaluation criteria:**

- Accent on consistency, completeness and correctness of the documentation
- proficiency in planning skills

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• ***Oral*** – In the Agile development, the focus is shifted dramatically from written to verbal communication. The students will deliver professional presentations, listen and respond to verbal questions, and demonstrate accurate use of technical vocabulary. **Evaluation criteria:**

- Clarity of the presentation
- Provides sufficient Information
- Effective use of time
- Clarity of the answers to the questions

Course web site and mailing list

Amendments to this syllabus, if any, as well as other important information (e.g. lecture notes, detailed course schedule, assignment due dates) will be made available from the course web site:

http://users.encs.concordia.ca/~s390_4/

Ensure that you register to the course mailing list soen3490-w12@encs.concordia.ca so as to be notified of updates to the course web site, exam dates, etc. Instructions for doing so will be given on the course web site.