

ENGG*4450: Large-Scale Software Architecture Engineering Fall 2007

1 Teaching staff

⇒ **Instructor:** Antony Savich

Office: 207 Thornbrough Building

Phone: TBD

E-mail: asavich@uoguelph.ca

Office Hours: M 10:30-11:30 or by appointment

⇒ **Teaching Assistants** John Huisman, jhuisman@uoguelph.ca
Araz Jahaniaval, ajahania@uoguelph.ca

2 Course Format and Organizational Details

The course will be delivered through 3 lectures/week. Labs will be used to help students get familiar with the software engineering tools used in this course. Students are required to complete a project at the end of the course using these tools, software engineering practices and some programming.

Lectures: ANNU 156, MWF 9:30-10:20

Labs: THRN 2313, M or F 12:30-14:20

Final Exam: December 7, 2007, 2:30 - 4:30 (tentative)

Course website: <http://courselink.uoguelph.ca/>

⇒ **Textbook:**

1. Timothy Lethbridge and Robert Laganieri, Object-Oriented Software Engineering, 2nd Edition, McGraw Hill, 2005

Additional resources:

1. Bruegge and Dutoit, Object-Oriented Software Engineering, 2nd Ed., Prentice-Hall, 2004
2. Schach, Object-Oriented and Classical Software Engineering, McGrawHill, 2001.
3. Any good UML manual.

⇒ **Evaluation**

1. Assignments 15%
2. Lab Test 15%
3. Project 20%
4. Final Exam 50%

3 Objectives

This course introduces students to the complexity involved in designing, implementing and testing a large scale software system. Topics will include:

- An overview of current software engineering processes
- Review of current tools and techniques for documentation, analysis and implementation of a software system.

Students will also be required to design and implement a software product using the tools and techniques reviewed in the lectures.

4 Deliverables and Course Flow

One week take home assignments will be given intermittently throughout the course. Assignment questions will be based on lecture and course text material. Five assignments should be expected.

There are four labs in the course meant to familiarize students with software engineering tools. The labs will be followed by a lab exam which will test student proficiency in software tool use.

Project topic and objectives will be announced following the lab exam. Students are expected to use software engineering practices they learn in lectures, together with the tools presented in labs, to complete a software engineering project. The project will consist of 3-4 weeks of group work (typically 2 students per team) with the final deliverable consisting of the software product and documents produced during the workflow.

The course will conclude with a final exam which will be primarily multiple choice with the option of several written questions.

5 Lateness and Plagiarism

The penalty for late submissions is 20% of grade per day. If you have trouble with material presented, please make sure you address this ahead of deadlines. We will be more than happy to accommodate your learning needs. On the other hand, plagiarism is ignorance, and ignorance is not welcome. We will strictly enforce University guidelines on plagiarism. The general idea is that it's better not to submit a work than to submit a reproduction of your peers' work.

6 Electronic Communication

- Course website: <http://courselink.uoguelph.ca/>
- Course forum: part of the Blackboard system (formerly WebCT). Please post all questions related to the course there. Questions related to marks and any other confidential concerns should be e-mailed directly to asavich@uoguelph.ca.
- Project team forum: As the project starts, individual team groups will be available.

Please check course website regularly.