Software Engineering 1
COSC-4P01

Instructor: Naser Ezzati-Jivan
nezzati@brocku.ca

Fall 2020

Instructor

Naser Ezzati-Jivan

- **Email**: nezzati@brocku.ca
- **Office**: MC J321!
- **Office hours**:
  - Offline questions: by email
  - Live session: by appointment

Course Description

- **COSC 4P01 - Software Engineering 1**
  - **Theory of software engineering.**
    - Topics include plan-driven development, Agile development, software requirements elicitation and presentation, verification of software correctness, redundancy, robustness, safety and security. Creation of robust software requirements document. Introduction to tools such as Git and Azure DevOps.
- **COSC 4P02 - Software Engineering 2**
  - **Application of software engineering.**
    - The development of a large-scale software engineering project in a competitive team setting, including creation of complete documentation for a working system.
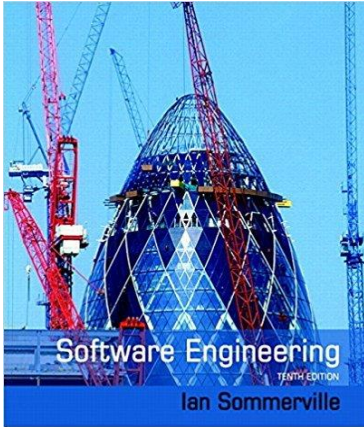 - Winter 2021
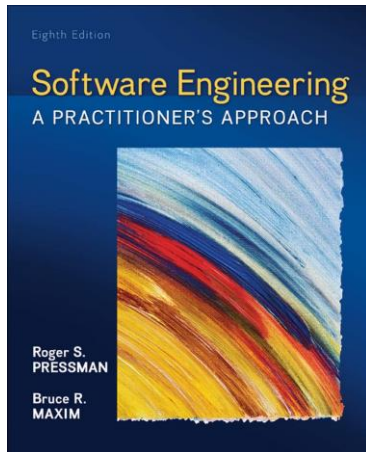
Course Information

- **Credit Hours**: 36
- **Location**: Online (Ms. Teams)
- **Period**: Sep 09, 2020 to Dec 08, 2020
- **Time**:
  - Monday: 3:30pm to 5:00pm
  - Thursday: 3:30pm to 5:00pm
- **TAs**:
  - Toby Chang (lingxuan925@gmail.com),
  - Gezhang Zhu (gz15lf@brocku.ca),
  - Nurbek Imangazin (nimangazin@brocku.ca)
- **Prerequisites**
  - COSC 2P03
- **Exclusions**: Completion of this course will replace previous assigned grade and credit obtained in COSC 4F00.

Recommended Textbooks

Software Engineering (10e) by Ian Sommerville, isbn: 9780133943030

Software Engineering: A Practitioner's Approach (9e) by Roger S. Pressman, isbn: 9780078022128

Lectures

- Lectures will be delivered online synchronously via Ms. Teams.

  - For each session you will get a join link a few days/hours prior to the class.

- Lecture slides will be posted in Sakai in the Resources/Lectures section.

- Lectures will be recorded and posted in each session's channel on Teams.

Attendance

- In-class participation is strongly recommended
    - Exams & assignments will be based on the covered materials in the class
- Absence in exams or submissions
    - Report as soon as possible
    - Health emergencies : Proofs
- **Rules**:
    - Camera: Feel free to keep it on or off, to your preference.
    - Audio: You will stay muted during the lectures, unless you want to ask a question.
    - Questions: You can ask anytime using Team's chat feature.

Grading & Exams

- **Grading**
  - **Quizzes and in-class participation: 20%**
  - **Assignments: 30%**
  - **Final Exam: 50%**
    - Obtaining 40% of the final exam is required to pass the course
- **Exams**
  - There will be 4 in-class quizzes and one final exam
    - Final exam and all in-class quizzes will be open-book exams.
      - No midterm!
    - Quizzes will be 30 minutes each and will be held during the regular class times.
    - Final exam will be a 3-hour exam.

Assignments

- **Assignments:**
  - There will be 4 assignments.
    - ‣ Each assignment will get 7.5 % of the final mark (total: 30%).
  - Due date and time for assignment submission will be printed on the assignment text.
  - All assignments are "Individual" and each student is individually responsible for completing the assignment and will receive an individual grade.
  - There is a 25% penalty per day for any late submissions.
  - Random students may be chosen to explain their assignment material to the instructor.

Tentative Schedule

Week 1	Introduction to Software Engineering	
Week 2	Software processes & Agile	
Week 3	Requirements Engineering	Assignment 1 & Quiz 1
Week 4	System Modelling	
Week 5	Architectural Design	
Week 6	Design & Implementation	Assignment 2 & Quiz 2
Week 7	Software Testing	
Week 8	Software Evolution and Maintenance	
Week 9	Dependable Systems	Assignment 3 & Quiz 3
Week 10	Safety Engineering	
Week 11	Security Engineering	
Week 12	Catchup & Review	Assignment 4 & Quiz 4

Plagiarism

- **Not tolerated**
  - Respect to academic integrity
- **What is plagiarism?**
  - Copy of content, text, or code from other students, books, web, or any source
- **If it there is any indication**
  - Case Brought to plagiarism committee
  - If confirmed
    - ▸ Activity : canceled
    - ▸ Author subject to University's regulations
      - – https://brocku.ca/node/1090

Question?
nezzati@brocku.ca