

# CSCB07 – Software Design

Summer 2023

## Course Description

The main goal of the course is to introduce software design and development through methodologies and tools that are commonly used in industry. It covers topics such as version control, object-oriented programming, design patterns, software testing, agile techniques, and mobile application development.

## Basic Course Information

**Pre-requisites** CSCA48H3 and [CGPA of at least 3.5, or enrolment in a CSC Subject POST, or enrolment in a non-CSC Subject POST for which this specific course is a program requirement]

**Exclusions** CSC207H

**Breadth Requirement** Quantitative Reasoning

**Primary Activity** LEC01 MO 9:00-11:00 HL B101

### Secondary Activity

TUT0001	MO 13:00-14:00	BV 473
TUT0002	MO 16:00-17:00	BV 473
TUT0004	TH 10:00-11:00	BV 473

## Instructor Information

**Name** Rawad Abou Assi

**Email** rawad.abouassi@utoronto.ca

**Office** IC 477

**Office Hours** Mondays 12:00-14:00 / Wednesdays 16:00-18:00

## Tentative Schedule

Topic	Weeks
Version Control	1
Introduction to Java	2
Object-oriented Programming	3, 4
SOLID Design	5
Design Patterns	6
Software Development Lifecycle	7
Mobile Application Development	8, 9, 10
Software Testing	11, 12

## Resources

There is no required textbook for the course. Instead, we will use a set of lecture notes that will be posted on Quercus. The students are encouraged to use the following Piazza forum for any relevant questions:

<https://piazza.com/utoronto.ca/summer2023/cscb07>

## Grading Scheme

Assessment	Weight
Labs	15%
Project	20%
Term Test	30%
Final Exam	35%

## Late/Missed Submissions

Late submissions are accepted without penalty only if proper documentation is provided (e.g. UofT medical certificate). Otherwise, a 10% penalty per day of lateness is applied for a maximum of three days (i.e. after three days of the due date, the submission would not be accepted).

Missed submissions result in a grade of zero unless proper documentation is provided, in which case the instructor would either conduct a similar assessment or distribute the weight of the missed assessment over the other graded ones.

## **Sharing Course Materials**

Course materials belong to your instructor, the University, and/or other sources depending on the specific facts of each situation and are protected by copyright. In this course, you are permitted to download them for your own academic use, but you should not copy, share, or use them for any other purpose without the explicit permission of the instructor.

## **Accessibility Statement**

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services Office as soon as possible.

AccessAbility Services staff (located in Rm AA142, Arts and Administration Building) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations 416-287-7560 or email [ability@utsc.utoronto.ca](mailto:ability@utsc.utoronto.ca). The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

## **Academic Integrity Statement**

The University treats cases of cheating and plagiarism very seriously. The University of Toronto's Code of Behaviour on Academic Matters (<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>) outlines the behaviours that constitute academic dishonesty and the processes for addressing academic offences.

Potential offences in papers and assignments include using someone else's ideas or words without appropriate acknowledgement, submitting your own work in more than one course without the permission of the instructor, making up sources or facts, obtaining or providing unauthorized assistance on any assignment. On tests and exams cheating includes using or possessing unauthorized aids, looking at someone else's answers during an exam or test, misrepresenting your identity, or falsifying or altering any documentation required by the University, including (but not limited to) doctor's notes.