Computing Science Course Outlines 2020 Fall

MACM 101 - D100 Discrete Math I

Instructor(s): Kay C Wiese

Calendar Objective/Description:
Discrete Math I

Instructor's Objectives:
This course is an introduction to discrete mathematics. The course will focus on establishing basic discrete mathematics principles and motivate the relevance of those principles by providing examples of applications in Computing Science.

Students need to have access to a computer, web-cam, and mic and a sufficiently stable internet connection as most content will be delivered online. Lectures and tutorials will be given in live mode with an opportunity for students to interact. Lectures will also be recorded and posted.

Prerequisites:
see go.sfu.ca

Topics:
- Counting
- Logic and Quantifiers
- Set Theory
- Formal Reasoning and Induction
- Functions and Relations
- Number Theory
- Growth of Functions

Grading:
There will be several graded assignments, quizzes, one or two midterms and a final exam. The details will be discussed in the first week of classes. Students must pass the final exam in order to pass the course.

Students must attain an overall passing grade on the weighted average of exams in the course in order to obtain a clear pass (C- or better).

Required Books:

Recommended Books:

Academic Honesty Statement::
Academic honesty plays a key role in our efforts to maintain a high standard of academic excellence and integrity. Students are advised that ALL acts of intellectual dishonesty will be handled in accordance with the SFU Academic Honesty and Student Conduct Policies (http://www.sfu.ca/policies/gazette/student.html).