Computing Science Course Outlines 2022 Fall

MACM 101 - D100 Discrete Math I

Instructor(s): Andrei Bulatov

Calendar Objective/Description:
Discrete Math I

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

Prerequisites:
see go.sfu.ca

Topics:
- Counting
- Logic and Quantifiers
- Set Theory
- Formal Reasoning and Induction
- Functions and Relations
- Number Theory
- Trees (if time permits)

Grading:
There will be several graded assignments, one or two midterms and a final exam. The details will be discussed in the first week of classes.

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:
Discrete and Combinatorial Mathematics (an Applied Introduction), Ralph P. Grimaldi, Addison-Wesley, 2004, 9780201726343

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).