MACM 101 - E100 Discrete Math I

Instructor(s): Bradley Bart

SFU Burnaby

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
- Introductory Number Theory + Proof Writing
- Set Theory
- Finite Probability + Expected Value
- Mathematical Induction
- Functions and Relations
- Growth of Functions
- Introduction to Graphs and Trees (Time Permitting)

Grading:
There will be a series of weekly tutorials, weekly assignments, 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:
Discrete and Combinatorial Mathematics (an Applied Introduction), Ralph P. Grimaldi, Addison-Wesley, 2004, 9780201726343

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).