

Introduction to Discrete Mathematics Course

Discrete Mathematics Course

- A particular set of mathematical facts (mathematical reasoning)
- Application of these facts (problem solving)
- How to think logically and mathematically

Why Study Discrete Mathematics?

- Develop your ability to understand and create mathematical arguments
- Basic course
 - Provides mathematical foundation for many courses
- Necessary mathematical background for solving problems in different areas

Course Website

www.cse.yorku.ca/course/1019

Office hours

- Office hours
 - Mondays - Wednesday 4-5
 - CSE 2013

- Email to niloo@cse.yorku.ca
 - Use a York account
 - Start your subject line with "[1019]".
 - Send messages in plain text, without attachments.

Tutorial

- Tutorial
 - Mondays - Wednesdays 5-6
 - CLH J
 - Starts second week (June 15)

Academic Honesty

- Academic Honesty
 - Read and understand the policy on academic honesty on the course web page.

Marking Scheme

□ Marking Scheme

- Assignments 15%
- Quiz 10%
- Midterm 25%
- Final Exam 50%

Assignments

- Assignments
 - Every Monday
 - Due: Next Monday at 6:00 pm
 - The solutions will be posted at the end of the class on due day.

Quiz and Midterm

- Quiz
 - June 17

- Midterm
 - June 29

Textbook

- Kenneth H. Rosen. *Discrete Mathematics and Its Applications, Sixth Edition*. McGraw-Hill, 2007.

Slides

- Slides will be posted after each class.

Course Outline

Outline:

- Logic and proofs
- Sets, functions, sequences and sums
- The growth of functions
- Induction and recursion
- Counting
- Advanced counting technique
- Graphs and trees