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Math 3373: Combinatorics and Graph Theory

Winter 2024

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Instructor: Dr. Yin Chen,

RB 2017,

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D2L Course Link: `https://mycourselink.lakeheadu.ca/d2l/home/126476`

Lectures:

Monday and Wednesday	13:00 – 14:30	RB 2024

Office Hours:

Monday	14:30 – 16:00
Thursday	16:00 – 17:00

Some Suggested Textbooks:

- *Counting Rocks!*

  `https://www.mathematicalgemstones.com/maria/OER/CountingRocks-Nov2023.pdf`

  by Henry Adams, Kelly Emmrich, Maria Gillespie, Shannon Golden, and Rachel Pries.

- *Combinatorics*

  `https://www.cs.uleth.ca/~morris/Combinatorics/Combinatorics.pdf`

  by Joy Morris.

Course Content:

This is an introduction to combinatorics and graph theory. We will cover the main topics of chapters 1-11 of the text *Counting Rocks!*.

Assignments:

There will be 6 assignments (due by 23:00 on Mondays, January 22, February 5, 26, March 11, 25 and April 8). The problem sets will be posted on D2L course page about a week before the due time. You can type up your solutions or write them on paper, scan them to make **ONE** pdf or doc file in the order of questions and then upload the file to D2L assignment folders. Late assignments will not be accepted under any circumstances.

Midterm Exam:

- Midterm Exam

  13:00 – 14:30, **Wednesday, February 28**, RB 2024.

Course Grade:

Assignments	20%
Midterm Exam	30%
Final Exam	50%