

Discrete Structures

Instructor: Yuandong Cyrus Liu
Mentor: Minh Nguyen
Meeting Times: Th 8:30 AM – 09:50 PM (Science 3815)

Grinnell College • Computer Science

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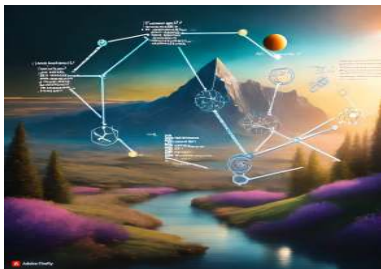


Overview

Discrete Mathematics vs Discrete Structures

- Practical.
- Theory.
- Abstract and precise.
- World, nature, principles, etc.

Overview



1

¹Create an image about discrete math and its application.

Overview



2

²Create an image about discrete math and its application, with logic, proofs, functions, and graph.

Learning Outcomes

- Logics, proofs, modeling.
- Sets, functions, graphs.
- Combinatorics, probabilities, reasoning and design.

Soft skills.

Textbook, Software, and Connectivity

- Course website for readings/exercises, <https://liu.cs.grinnell.edu/csc208-01/>.
- Github open sharing (Commit, PR, Issues, practice your Git !!), <https://github.com/grinnell-cs/csc208-open-share>.
- Gradescope, <https://www.gradescope.com/courses/695562>, entry code:**EJD7E5**.

Course Evaluation and Grading

- Details in syllabus and core learning outcome on the website.
- Daily drills, lab exercises, projects, core exams.
- 48 hours grace period, EMRN rubric.

Table: Deliverables Grading

	Daily Drill	Lab Exercises	Homeworks	Exams
Grades	<i>S/N</i>	<i>S/N</i>	<i>E, M, R, N</i>	<i>S/N</i>
Amount	Daily	Per class	5	3×5 (self-paced)
Due	Class day	Saturdays	one week after	45 Min.
Missing	48 Hrs (max 3)	48 (max 3)	None	None
All	Due Sunday, May 19, 5:00 PM CST			

Overall letter grades

- Homeworks and Core exams contribute to *A, B, C, D, F*.
- Daily drill and lab exercise contribute to *Letter^{+/-}*.

Office Hours

- Location: **Noyce Science 3818**
- Tuesdays: 9:50 AM - 11:50 AM
- Thursdays: 11:00 AM - 12:00 AM
- By appointment.

Warm-up with Latex

Why Should I Use Latex

- A tool helps you write scientific paper.
 - Syntax, typesetting, customizing.
 - References, media, tables, figures management.
 - Math, physics, techniques (theorems, proofs, symbols).
-
- You may work with group, but no more than 2 person each group.
 - Change your partner as often as you can!

Q & A