## CS 330 : Discrete Structures Michael Lee

Syllabus and Overview.

1. Course logistics 2. Resources 3. Grade Breakdown f. What is "Discrete Structures"/"Discrete Mathematics"? 5. Topics

leverage D Read Skim assigned reading resources to complete HW. Recetation (Mon) Lecture (wed/Fri) (+ participate!) 3 Attempt problem set + review assigned reading

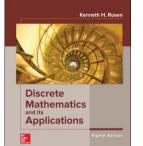
2. Lesources

## CS 330: Discrete Structures

## Announcemente

- The Zoom meeting ID for our online lectures is 931 0753 5633 -- you can join using this link.
- · We will be using Discord to run office hours, and it will also serve as our peer support and Q/A forum. If you aren't already a member, please join at https://discord.gg/yebYWHX

Calendar	Assignments	Resources
The course calendar is tentative and likely to change. All readings are from the Prosen text. Aug 25 • Syliabute and Overview Aug 28	1. Coming soon!	Schedule • Lecture: Wed/Fri 9:40AM-10:55AM in Wishnick 113 and Zoom • Restation: Mon 9:40AM-10:30AM Wishnick 113 and Blackboard Colle Staff
Propositional Logic     Propositional Logic     Reading: §§ 1.1-1.3 Sep 2     Productor Logic     Reading: §§ 1.4-1.6 Sep 4		Instructor: Michael Lee     Email: Ice/Sife.edu     Office: 58 229C     Hours: Wed/Pii 1PM-2PM on     Zoom     TA: Li Zhang



1) Textbook 2) Websate: http://moss.cs.iit.edu/cs330 3) Baeleboord 4) Discord

10273.202110 Fall 2020 - Discrete Structures (CS-330-S01) Home 🕞 🔓 Edit Mode is: 💶 🔿 Home 💿 10273 202110 (Fall 2020 Discrete Structures (CS 330-501)) Add Course Module Customize Page 1: Syllabus 🛙 Content 🖬 To Do \* My Announcements 10 No Course or Organization Announcements have been 0 Assignments Actions ¥ more announcements.. What's Past Due Tools 📾 ► All Items (0) My Tasks Actions ¥ What's Due My Tasks: Select Date: 08/25/2020 **60** No tasks due. \* Today (0) B&N Bookstore What's New Tomorrow (0) B&N Bookstore: Faculty B® . Actions w > This Week (0) ctor Holo 📾 Future (0 ▶ Courses/Organizations (1)

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Calls         Welcome to the Gall and Thicked surveit           Ca201         Get help with classes, meet with TAs and mitructors, and hung out with your peers. Plot these near to see the commandy entryinguile for all.           G330         1. Be limit and respectful.	
cs401 5. No advertising. If you have an announcement you wish to make (e.g., about a hackat event), please message an instructor or moderator with the information and they'll cons	
cs425 6. Try to post content into the relevant channels. Post class-specific auestions to class	
<ul> <li>cs430</li> <li>#cs331, #cs351), use #advising to discuss and get help picking classes, and use #general</li> </ul>	

Assignmentz ~10 problem setz, equally weighted. - poster to website - submit on Blackboard as PDF. - MUST BE TYPED.

F. "Discrete Structures" / "Discrete Mattematice" what does this mean? distinct separate courtable unconnected not continuous

Discrete agents halves:

- dice + dia roll recubes
- integers
- Coins
- cuties on a map
- binary data
- IP addresses
- steps in an algorithm - lines of code
- nodes in a graph - digital watch time

Non-discrete specte /volves: - real numbers - temperature - fime measurement - avalog wortch - fime

- how do we represent these object? - discrete Arvolnes!

- how do we reason about them?

S. Topics - Logic + proof technique - Sets, Functions, Relations - Algorithms + Runtime Complexity - Induction + Recursion - Combing + Combinatorics - Discrete Probability - Graphs + Trees - Langvages + Grammans - Automata: FSMs + Turing Maeluines