CS 173: Discrete Structures Syllabus, Logistics, and Math Review Ian Ludden June 15, 2020

A bit about me









What are we going to learn?

• From Course Explorer:

Discrete mathematical structures frequently encountered in the study of Computer Science. Sets, propositions, Boolean algebra, induction, recursion, relations, functions, and graphs.

• Slightly more poetic:

You will become fluent in formal math and practice powerful proof techniques to prepare for subsequent CS courses.

What work do we have get to do?

- Reading assignments (async)
- Lecture videos (async)
- Discussion sessions (sync, if possible)
- Homework (auto-graded)
- Examlets & final
- Study problems (ungraded)





Exam

Examlet



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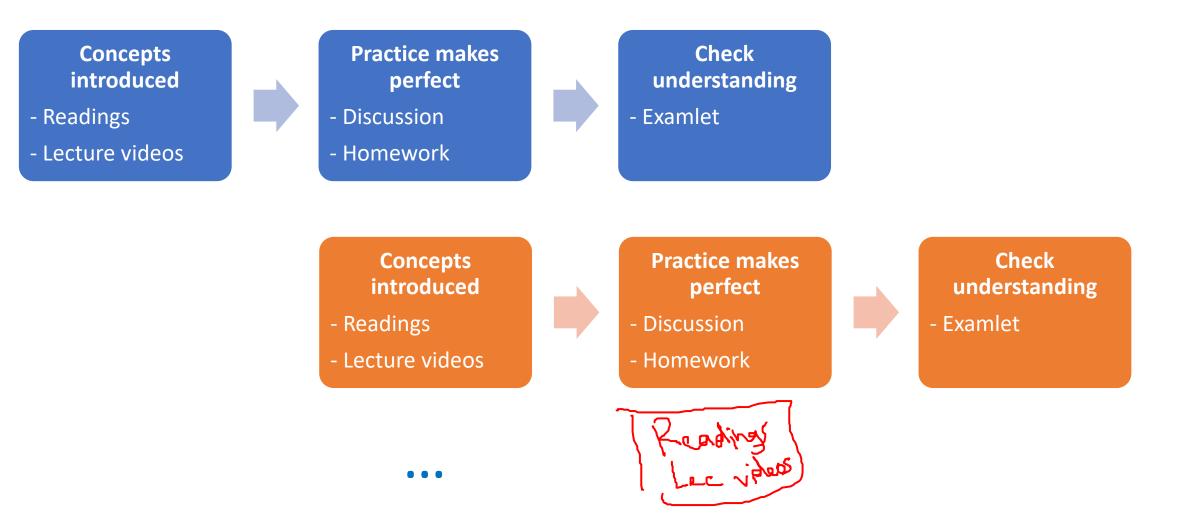
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Why are there so many moving parts?



Phases of learning are staggered.



Where can I find course content?

173 isprime

- Moodle
 - Readings (links to Perusall)
 - Homeworks
 - Examlets

- Website
 - Syllabus
 - Schedule (links to lecture videos, study problems)
 - Help/resource pages

- Piazza
 - Announcements
 - Q & A

Math Review

• Continuous vs. discrete

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• Some special sets

f:R-R R = reals Y f (x)=_cos(x) +3 Z = integers N= naturals Ο, A B

Next steps

- Discussion session this afternoon (1 p.m. CDT)
 - Preparation: Lectures 01a, 01b (links on Schedule page)
- Check Moodle for first homework, first reading assignments
- Future lectures pre-recorded (links on Schedule page)
- Practice examlet (no points) on Thursday