

MA 2201 / CS 2022 - Discrete Mathematics

Spring 2015

MA 2201 C01 DISCRETE MATHEMATICS 1/3 Lec MT-RF- 3:00-3:50 AK116

20177 C01 M 11:00-11:50 SH308

20178 C02 M 12:00-12:50 SH106

20179 C03 M 10:00-10:50 SH304

20414 C04 M 11:00-11:50 SH309

Quiz Solutions

[Quiz 0001 Solutions](#)

[Quiz 0010 Solutions](#)

[Quiz 0011 Solutions](#)

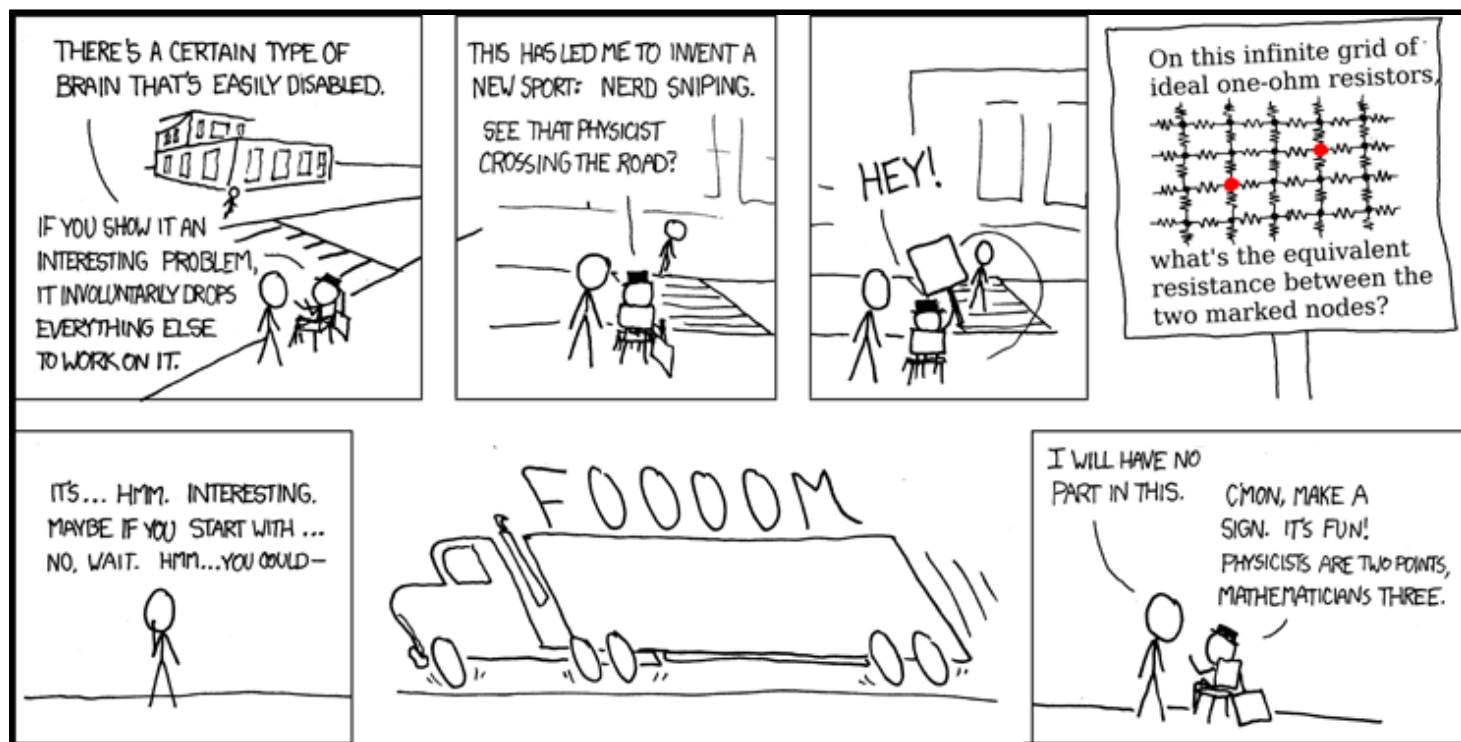
[Quiz 0100 Solutions](#)

[Quiz 0101 Solutions](#)

[Quiz 0110 Solutions](#)

[Quiz 0111 Solutions](#)

[Final Exam Solutions](#)



Text 1:

[Discrete Mathematics](#)

Laszlo Lovasz, Jozsef Pelikan, Katalin L. Vesztegombi

Text is freely downloadable.

Text 2:

[Discrete Mathematics with Algorithms](#)

M. O. Albertson and J. P. Hutchinson
Text is freely downloadable.

Instructor:

[Herman Servatius](#)

EMAIL: hservat

Office Hours: TRF 2:00 - 3:00, 4:00-4:30

Syllabus

This course provides an introduction to the mathematical structures of computer science.

Discrete mathematics includes topics on set theory, logic, proofs, relations, functions, orders of growth, induction, recursion, and graphs.

This course is recommended background for: CS2223, CS3133, CS3431, ECE3801 and most of upper-level mathematics.

Grading

There will be a quiz each Tuesday.

The seven quizzes altogether count for 70% of your grade.

There will one final exam, worth 30% of your grade on March 6th.

The policy for ALL make-up quizzes is to use the scaled final exam to replace the quiz.

Moreover, there is no penalty for not taking a quiz. You can decide after completing the quiz not to submit it. On the other hand, once submitted, it cannot be withdrawn, and the lowest quiz submitted is NOT dropped.

The final exam is not optional. The final will be given during class on the last day of classes.

Homework

It is essential in discrete mathematics to do many exercises.

[Exercises for Lectures 1 and 2](#)

[Exercises for Lecture 3](#)

[Exercises for Lecture 4 and 5](#)

[Logic Puzzles](#)

[Exercises for Lectures 8 and 9](#)

[Some more Exercises](#)

[Pigeonhole principle Exercises](#)

[Exercises on GCD and euclidean Algorithm](#)

[Exercises on primes](#)

[Exercises on Modular Arithmetic](#)

Other Helpful links

[1](#)

[2](#)

[3](#)

- [4](#)
- [5](#)
- [6](#)
- [7](#)
- [8](#)
- [9](#)
- [10](#)