CSCI-4260/MATH-4150: Graph Theory
Course Overview

Prof. George Slota

Spring 2022

Welcome to Graph Theory!

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Course Instructor

yo

▶ 6th year at RPI, 6th time teaching graph theory
  ▶ I think I no longer have an excuse for doing a bad job
▶ Office hours: M/Th 12-1pm (right after class) or by appt. via Webex
▶ Research interests: parallel graph algorithms, general graph analytics, high performance and scientific computing
  ▶ Usually more "applied" than "theory" but here I am anyways
  ▶ More applied course: Graph Mining (still time to sign up!)
▶ Other interests: climbing, skiing, general sending of gnar

Course TA and Mentors

TA: Neha Keshan

- keshan@rpi.edu
- https://rensselaer.webex.com/meet/keshan
- Office Hours: Tuesday/Wednesday 10-11:30am

Mentor: Chris Jerrett

- jerrec@rpi.edu
- https://rensselaer.webex.com/meet/jerrec
- Office Hours: Monday 1-2pm and Wednesday 8-10am

Mentor: William Hawkins

- hawkiw2@rpi.edu
- https://rensselaer.webex.com/meet/hawkiw2
- Office Hours: Monday 2-4pm and Thursday 2-3pm

Generally: Contact mentors for help with working on assignments. Contact TA for grading issues/questions after post-assignment submission.

Course Mascots

Course Dog: Zepy

Course Chickens:
Thelma and Gerty

About the course

"Dull, but easy." – Reddit

"Too much theory." – CS majors
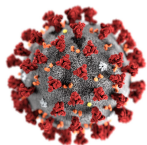
"Too many algorithms." – Math majors

"Don't know why I took this." – Engineering majors

About the course

(read syllabus for more information)

- ▶ The course is a combination of pure graph theory and graph algorithms
  - ▶ Enough theory to annoy CS majors. Enough algorithms to annoy math majors.
- ▶ Website:
  - ▶ http://www.cs.rpi.edu/~slotag/classes/SP22t/index.html
- ▶ Textbook:
  - ▶ Introduction to Graph Theory - 2nd Edition
    - ▶ Douglas B. West
  - ▶ Available in bookstore, Amazon, "etc."
- ▶ Schedule:
  - ▶ Please see website for up-to-date info

COVID stuff

boo

- ▶ Website has Webex links for first two weeks
  - ▶ Password: sp22
- ▶ Homeworks and first quizzes will collected via Submitty
- ▶ TA and mentor office hours will be remote
- ▶ Non-cloth masks will be required in class

Your grade

(where it will come from)

- ▶ 40% – Homeworks: bi-weekly problem sets, covering the upcoming material
  - ▶ Submit via Submitty – usually given 2 weeks to complete
  - ▶ 3 late days allowed in total, max 2 late days per assignment
- ▶ 10% – Quizzes: weekly problems, covering the prior week's material
  - ▶ During virtual: 24 hours to complete
  - ▶ Normally: Handed out and worked on in class
- ▶ Collaboration will be allowed for homeworks and quizzes
  - ▶ However: **still need to do the problems on your own**
- ▶ Two exams worth remaining 50% of grade
  - ▶ Midterm last day before Spring break (20%)
  - ▶ Final during finals week (30%)

FAQs

The class is full. Can you sign my form?

- ▶ Yes.

I missed [assignment] due to [reason], can I turn it in now?

- ▶ Yes. As long as (reason) was a school/department approved absence.
- ▶ Note: 3 late days being given for semester - max 2 per homework assignment. 0 for quizzes.

How are we doing office hours?

- ▶ TAs and mentors: Webex meeting rooms. Likely using the office hours queue.
- ▶ Myself: In person right after class. Webex by appointment.