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

Prof. George Slota

Spring 2023

Welcome to Graph Theory!

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Course Instructor

yo

- ▶ 7th year at RPI, 7th time teaching graph theory
  - ▶ I think I no longer have an excuse for doing a bad job
- ▶ Office hours: M/Th 6-7pm (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 (Spring 2024)

Course TA and Mentors

TA: Neha Keshan

- ▶ keshan@rpi.edu
- ▶ https://rensselaer.webex.com/meet/keshan
- ▶ Office Hours: TBD

Mentor: Nicholas Desmarais

- ▶ desman@rpi.edu
- ▶ https://rensselaer.webex.com/meet/desman
- ▶ Office Hours: TBD

Mentor: Megan Goulet

- ▶ goulem2@rpi.edu
- ▶ https://rensselaer.webex.com/meet/goulem2
- ▶ Office Hours: TBD

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

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/SP23/index.html
- ▶ Textbook:
  - ▶ Introduction to Graph Theory - 2nd Edition
    - ▶ Douglas B. West
  - ▶ Available in bookstore, Amazon, "etc."
- ▶ Schedule:
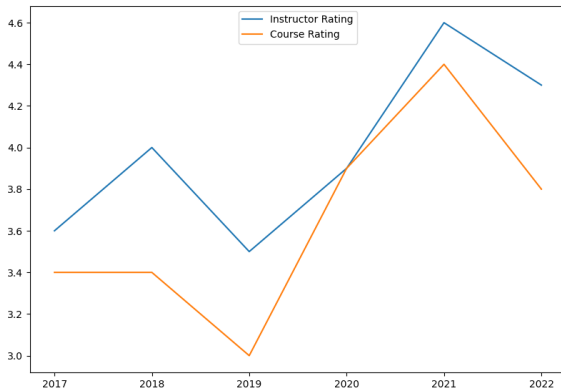 - ▶ Please see website for up-to-date info.

Your grade
(where it will come from)

- ▶ 40% – Homeworks: bi-weekly-ish problem sets, covering the upcoming material
  - ▶ Submit via Submitty – usually given 2 weeks to complete
  - ▶ 3 late days allowed in total, max 1 late day per assignment
- ▶ 10% – Quizzes: weekly problems, covering the prior week's material
  - ▶ Handed out and worked on in class, with your classmates
- ▶ 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%)

Data Mining

proof that we're getting better

FAQs

The class is full. Can you do an override?

- ▶ Yes. Email me with your RIN.

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 1 per homework assignment. 0 for quizzes.

How are we doing office hours?

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