CSCI 161: Computer Science II

- Picks up where 160 left off, with a mix of theoretical and applied material
- some review/refreshers of later material from 160
- dynamic data structures (lists, stacks, queues, trees)
- abstract data types, objects and classes
- searching and sorting algorithms/implementations
- software development tools and techniques (make, git, gdb)
- misc. additional useful language features
- programming language is again C++

Contact/schedule info

- Dave Wessels, David.Wessels@viu.ca
- Office hours on zoom Thu 1-2, Fri 11:30-12:30 (or email for alternate time), Zoom info announced on VIULearn page
- Regular lecture/lab rooms shown here, but first four weeks will be held in different (larger) rooms, see next slide
  - Lectures Tues/Thurs 11:30-1 and Fri 10:30-11:30, building 180 room 238
  - One-hour labs, Friday at 12:30, 1:30, and 2:30 in building 315 room 102 (attend your registered session)
- Announcements/quizzes will be held through the CSCI 161 pages on VIULearn

Room changes first 4 weeks

- strongly prefer to continue fully in-person for CSCI 161, but the scheduled lab/lecture rooms would be very tightly packed
- booked larger rooms/labs for Jan 10th through Feb 5th:
  - Tues lecture 11:30-1 in building 250 room 125
  - Thurs lecture 11:30-1 in building 180 room 134
  - Fri lecture 10:30-11:30 in building 200 room 203
  - Fri labs 12:30, 1:30, 2:30 in building 250 room 115
- unfortunately those aren't available full semester, but hopefully this gets us through the worst of the current Omicron wave

Access to course content

- Access to most content is provided through csci.viu.ca/~wesselsd/courses/csci161
- Pre-recorded lecture/lab videos will be available on youtube for students who are self-isolating, links can be found through the URL above
- Quizzes and announcements are provided through VIULearn, but you'll be taking the quizzes in the lab in your registered lab session
- Labs distribution/submission done through git, using processes we'll introduce in the first week of labs

Assessment

- 5 labs, 6% each, 30% total
- 5 in-lab quizzes, 4% each, 20% total
- Programming project, 10%: the project can replace ***one*** lower lab mark
- Final exam 40%: the final exam can replace ***one*** lower quiz mark
- Labs due roughly every two weeks, quizzes held roughly every two weeks
- Labs start Friday Jan. 14Th, first quiz Feb 4th

Pre-reqs and waitlists

- A minimum C- is required in CSCI 160. I generally will not be willing to waive this (students have a very poor chance of passing 161 if they don't have an adequate handle on the 160 material)
- As of Jan. 3rd we just have 5 students waitlisted, and if necessary I can add up to 2 seats per section (after the official waitlist period ends), so hopefully we can get everyone in

No show policy

- We’re required to deregister any “no shows”
- Make sure you attend the first lecture (Jan 11th) and sign the sign-in sheet
- If you're unable to attend the first lecture please email me asap (David.Wessels@viu.ca) to let me know you do still plan on attending

Lectures

- Lectures will be held in person
- For students unable to attend any given lecture, the approximate material is available through url

  csci.viu.ca/~wesselsd/courses/csci161/vidres.html

  - shown by week and topic, generally provides links to slides, youtube videos, supporting web pages
  - content won't exactly match the in-person lectures, and won't include any in-class announcements/Q&A, but should be a reasonable approximation: please email or discord me if you have questions on any of the video content

Quizzes

- Quizzes run through VIULearn, roughly every two weeks starting in early February
- You'll take the quiz in person in the lab, in your lab session, and will have 40 minutes to do each quiz (due by the end of the lab)
- You'll be permitted to use lab software while answering the quiz
- Quizzes are a strictly individual exercise: no communication with anyone other than the instructor is permitted during the quiz
- Students who are self-isolating will generally be permitted to take quizzes from home, but must get explicit approval from the instructor prior to taking the quiz

Labs

- Held in person, video discussion of the lab exercise will be posted for the sake of students required to self-isolate
- Labs distributed and submitted through git (process to be discussed in the first week of labs)
- Labs start Friday Jan 14th, due roughly every 2 weeks
- Labs must be completed as strictly individual efforts
- Late penalties:
  - 10% if late by less than 24 hours
  - 20% for 24-48 hours late
  - 40% for the 48-72 hours late
  - no submissions accepted after 72 hours

Project

- a course programming project will be released shortly before the study break, due near the end of semester
- will involve use of classes and the implemention of a variation on typical linked list data structures
- must be completed as strictly an individual effort
- same late penalties as labs, same distribution/submission mechanisms as labs
- project mark can also be used to replace ***one*** lower lab mark