Data Structure, Fall 2022

Time: MWF 8:30am-9:20am

Location: Felgar Hall 0300

Instructor: Chao Lan (clan@ou.edu)

Teaching Assistants: Edwin Yang (edwiny@ou.edu), Manisha Mandava (manisha.mandava@ou.edu)

Office Hours:

– M 1:30pm-4:30pm, Dr. Lan, DEH 341 (later move to 210-E)

– W 2pm-5pm, Edwin, Virtual Office Hour, Zoom ID: 93648471825, PWD: 06005107

– F, 12:30pm-2pm, Mandava, Virtual Office Hour, Zoom ID: 2158887483, PWD: 77638220

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1. Course Description

This course introduces the concept and implementation of data structures including array, vector, linked list, hash table, stack and queue, tree and graph. It also introduces the applications and efficiency analysis of these data structures in different search, sorting, insertion and deletion algorithms.

All discussions and assignments are based on the C++ programming language.

2. Reference

S. Radhakrishnan, et al. Data Structures Featuring C++ A Programmer's Perspective. SRR LLC, 2013.

M. Goodrich. Data Structures and Algorithms in C++ (2ed). Wiley, 2011.

3. Point Distribution

– 50% for assignments

– 15% for the 1st exam

– 15% for the 2nd exam

– 20% for the final exam

4. Late Assignment Submission Policy

– 1 week after due time: score = score * 0.8

– 2 weeks after due time: score = score * 0.6

– more than 2 weeks after due time: score = 0

5. Student Collaboration Policy

– Students cannot collaborate on the exams.

– Students can collaborate on assignments but need to clarify the collaborator in submission and be ready to independently defend their own submitted solutions upon the request of the instructor or the TAs.

– Copying and pasting is strictly forbidden.

6. Attendance Policy

Attendance is not required. Lecture outlines will be posted on Canvas, though they will not cover details of the lectures.

7. Mask Expectation

Students are encouraged to continue wearing masks in class and practicing social distancing.