

North South University - Spring 2023

Department of Electrical and Computer Engineering

Course Outline: CSE225L (Data Structure and Algorithm Lab)

Lab Instructor:

A. S. M. Sabiqul Hassan

Email: sabiqul.hassan@northsouth.edu

Office: TBA (Check your Canvas announcement section)

Office Hours: TBA (by email appointment)

Lab Class Timing & Classroom:

TBA (Check your RDS for the updated information)

Tentative Marks Distribution:

Class Attendance (CA)	10
Class Performance (CP)	25 (15 + 10)
Home Work (HW)	15
Mid Exam (ME)	25
Final Exam (FE)	25

Instructions for Students:

- **Class Manners:** Be attentive during the whole class time. Making a noise, gossiping with others, accessing any electronic device without permission and other activities are strictly prohibited. Don't leave the classroom without permission of your instructor.
- **Attendance:** You must attend all the lab sessions on time (within the first 5 minutes of class time). After 15 minutes, no attendance will be counted.
- **Late Submission:** Strictly maintain the deadlines and no late submission will be accepted.
- **Make-up Exam:** There will be no make-up exam throughout the semester. So be careful about the exam schedule. I will not change any assessment timing based on your other courses.
- **Academic Honesty:** Try to complete all tasks by yourself. Don't submit others' work or blindly copy-paste from any source. Any type of unfair practices will not be tolerated and you will be punished.
- **Grading Policy & Others:** I will follow the ECE department's instruction on grading policy and it will be finalized after consulting with the course instructor. There is a possibility of general curving based on the requirement. As I do partial marking for all, don't request me for an individual favor. Be assured that you will face no discrimination (gender, religious, etc.) from my side. Most importantly, I don't like any unnecessary formalities (class party, any gift etc.) and those will not help to increase your grade.

Tentative Class Schedule: (6 months semester)

Week No	Topic(s)
01 & 02	Introduction to C++ (review syntax & required OOP concepts)
03	Dynamic Memory Allocation
04	Classes & Objects
05	Template Class and Operator Overloading Practice Session – (PS 1) / Quiz – 1
06	Unsorted List (array based)
07	Sorted List (array based)
08	Stack (array based)
09	Queue (array based) Practice Session – (PS 2) / Quiz – 2
10	Lab Mid Exam Bonus: Introduction to Git, GitHub & CLI
11	Unsorted List (linked list based)
12	Sorted List (linked list based)
13	Stack (linked list based)
14	Queue (linked list based)
15	Recursion Practice Session – (PS 3) / Quiz – 3
16	Binary Search Tree
17	Priority Queue
18	Graph Lab Final Exam