Syllabus

College of Computing and Computer Engineering

Department of Computer Science

CSCE 1045: Computer Programming II

Fall 2025 Section 501, 551

Instructor Information

Instructor: Dr. James E. Freedle II
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Teaching Assistant:
Email:
Office Hours:

Course Description, Structure, and Objectives

CSCE 1045, This course focuses on continuing the progression of students' software development skills through programming, designing, and implementing larger software projects and emphasizes more advanced topics such as dynamic data structures and object-oriented paradigms using one or more modern programming languages. The class will be an in person face to face class.

Course Learning Outcomes

1. Write readable, efficient, and correct programs for basic programming constructs plus dynamic memory allocation, bit manipulation operators, exceptions, classes, and inheritance.
2. Design and implement recursive algorithms using a modern programming language.
3. Use common data structures and techniques such as stacks, queues, linked lists, trees, and hashing.
4. Create programs using the appropriate libraries for the programming language.
5. Use a symbolic debugger to find and fix runtime and logical errors in software.
6. Use a software process model to design and implement a significant software application in a modern programming language consisting of multiple files and functions with a make file.
7. Implement, compile, and run programs that include classes, inheritance, virtual functions, function overloading and overriding, as well as other aspects of polymorphism.

Course Requirements and Assignments

All class lecture presentation slides, assignments, projects, and zyBook assignments are available on the Canvas page. All assignment submissions will be uploaded to Canvas. Emailing submissions to the TA or Instructor will not be accepted. Please check the Canvas Calendar and syllabus for due dates.
Weekly Tasks:

Each week, we will cover a chapter, and each module will include assignments, labs, participation, and challenge activities. All submissions are due by Sunday at 11:59 pm. Late assignments will be accepted within two days of the due date with a 10%/day penalty. The TA will handle all grading, so direct any grade-related questions to the TA.

How to Succeed in this Course

Class Meeting Time: Monday and Wednesday 3:30 pm to 4:50 pm in FRLD 346
Lab Meeting Times: Wednesday 6:30 pm to 9:20 pm in FRLD 224
Office/Student Hours: Tuesday and Thursday 1 pm to 4 pm and by Appointment via Microsoft Teams

You may contact me via Canvas or UNT email, but it must be through your UNT email account, no personal accounts. In the subject line, you need to put the course and section (CSCE 1045 §501:) along with one or two words of the reason for your communication. You may also contact me through Microsoft Teams, either chat or audio call. I receive a lot of email so give me 1 to 2 business days for a response, however if you see me online and available in Microsoft Teams, you can certainly contact me with any quick questions. Office hours (Student hours) offer you an opportunity to ask for clarification or find support with understanding class material. Come and visit me! I encourage you to connect with me and/or my TA for support. Additional office hours, in person and virtually, may be offered as the semester concludes. Your success is our goal.

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Access (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with a reasonable accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request reasonable accommodations at any time; however, ODA notices of reasonable accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of reasonable accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of reasonable accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information, refer to the Office of Disability Access website (https://studentaffairs.unt.edu/office-disability-access). You may also contact ODA by phone at (940) 565-4323.

UNT strives to offer you a high-quality education and a supportive environment, so you learn and grow. As a faculty member, I am committed to helping you be successful as a student. To learn more about campus resources and information on how you can be successful at UNT, go to unt.edu/success and explore unt.edu/wellness. To get all your enrollment and student financial-related questions answered, go to scrappysays.unt.edu.

Supporting Your Success and Creating an Inclusive Learning Environment

Every student in this class should have the right to learn and engage within an environment of respect and courtesy from others. We will discuss our classroom's habits of engagement and I also encourage you to review UNT's student code of conduct so that we can all start with the same baseline civility understanding (Code of Student Conduct) (https://policy.unt.edu/policy/07-012).

Required/Recommended Materials

Required Textbook: We will be using an online textbook this semester through zyBooks. The following instructions are also provided in Canvas:

1. Click any zyBooks assignment link in Canvas
   (Do not go to the zyBooks website and create a new account)
2. Subscribe

If you are having any issues signing into zyBooks, please email support@zybooks.com for assistance.

- This course has digital components. To fully participate in this class, students will need internet access to reference content on the Canvas Learning Management System. If circumstances change, you will be informed of other technical needs to access course content. Information on how to be successful in a digital learning environment can be found at Learn Anywhere (https://online.unt.edu/learn).

Prerequisite (should have a grade of C or better):

- CSCE 1015: Computing Tools and Techniques Laboratory
- CSCE 1035: Computer Programming I

Corequisite(s):

- MATH 1650: Pre-Calculus

Course Requirements/Schedule

Here is the schedule as planned. Depending upon the circumstances the schedule is subject to change and the assignments will be updated in Canvas. Each of the assignments are in zyBooks and the grades are imported into Canvas as a percentage, therefore all assignments in Canvas are 100 points each.

Date	Topic	Assignment
8/18, 20	*Introductions, Introduction to c++*	*Challenge Activities, Participation Activities*
8/25, 27	*Branches*	*Challenge Activities, Participation Activities, Lab*
9/3	*Loops*	*Challenge Activities, Participation Activities, Lab*
9/8, 10	*Arrays/Vectors*	*Challenge Activities, Participation Activities, Lab*
9/15, 17	*User-Defined Functions*	*Challenge Activities, Participation Activities, Lab*
9/22, 24	*File Input/Output and Streams*	*Challenge Activities, Participation Activities, Lab*
9/29, 10/1	*Structs and Pointers*	*Challenge Activities, Participation Activities, Lab*
10/6, 8	*Review of Course to date*	*Project 1 Due*
10/13, 15	*Objects and Classes*	*Challenge Activities, Participation Activities, Lab*
10/20, 22	*Data Structures*	*Challenge Activities, Participation Activities, Lab*
10/27, 29	*Recursion*	*Challenge Activities, Participation Activities, Lab*
11/3, 5	*Inheritance*	*Challenge Activities, Participation Activities, Lab*
11/10, 12	*Exceptions*	*Challenge Activities, Participation Activities, Lab*
11/17, 19	*Templates*	*Challenge Activities, Participation Activities, Lab*
11/24, 26	*Thanksgiving Break*	*No Assignments Due*
12/1, 3	*Course Review*	*Challenge Activities, Participation Activities, Lab*
Finals Week		*Project 2 Due*

You will be notified by Eagle Alert if there is a campus closing that will impact a class and the calendar is subject to change, following the Campus Closures Policy (https://policy.unt.edu/policy/15-006).

Assessing Your Work

The final grade will be assessed using the following grade distribution:

Group	Weight
Participation Assignments	25%
Challenge Assignments	25%
Lab Assignments	30%
Projects	20%
Total	**100%**

Grading scale:

A = 90% to 100%
B = 80% to <90%
C = 70% to <80%
D = 60% to <70%
F = <60%

Course Policies

Submission Policy

Students are responsible for submitting the correct assignments in the correct assignment location in Canvas. All programming assignments are expected to compile and run in the zyBooks environment. If you have any questions or concerns about your submission, please work with your instructor or TA to ensure that the correct file(s) is/are submitted.

AI Course Policy

In this course, the use of GenAI (Generative Artificial Intelligence) tools is not permissible for any coding assignments. No matter the approach, any attempt to represent GenAI output as a student's own work will be considered fabrication, cheating, and/or academic dishonesty as determined on a case-by-case basis. Using GenAI tools to proofread and grammar-check is permitted.

Make-up Work Policy

Missed exams or assignments due to illness or in the event of an unavoidable absence, make-up work will only be allowed by providing the instructor with a physical copy of a signed doctor's note or any proof in the event of of an unavoidable absence. See the UNT Class Attendance Policy for more information.

Academic Integrity and Collaboration Policy

Check UNT policy 06.003 that defines the breaches of academic integrity: from Cheating, Plagiarism, Forgery, Fabrication, Facilitating Academic Dishonesty,… etc.
Cheating of any sort will not be tolerated in this course. All submissions must be your own original work. Taking information or code from the internet or other students is considered a breach of academic integrity. Failure to adhere to these strict standards will be cause for disciplinary action that could be as severe as expulsion from the university. If it is determined a student cheated on any assignment in this course they will receive an F for this final course grade and an academic integrity report will be filed with the Office of Academic Integrity. Further, UNT is now maintaining a database recording any acts of academic dishonesty that is available to employers. For more information see the UNT Student Academic Integrity Policy.

Honor Code: "I commit myself to honor, integrity, and responsibility as a student representing the University of North Texas community. I understand and pledge to uphold academic integrity as set forth by UNT Student

Academic Integrity Policy, 06.003 (https://policy.unt.edu/policy/06-003). I affirm that the work I submit will always be my own, and the support I provide and receive will always be honorable."

Attendance and Participation

Student attendance will be recorded. Every student who misses a class or a lab is responsible to learn the materials discussed. It is the student's responsibility to obtain the homework assigned on the missed class. I have great respect for students who are balancing the demands of their coursework with the responsibilities of caring for family members. If you run into challenges that require you to miss a class, please contact me or my TA. There may be some flexibility we can offer to support your academic success.

Lab Attendance

Students must attend their weekly lab section. If you anticipate being unable to attend your regular lab section with a valid excuse, you must contact myself and your TA *in advance* of your lab section before the lab is closed so that an alternative lab section maybe scheduled. Failure to do so may result in a zero for the lab. The instructor has the final say as to whether an absence is excused.