CSCE 2110: Foundations of Data Structures

Section 400, 100% Online

COURSE SYLLABUS, Summer 2026

Department of Computer Science and Engineering

University of North Texas

Instructor

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Office: Discovery Park E250G

Office Hours: By Zoom https://unt.zoom.us/j/9876304928 and by appointment. **Please confirm your appointment by email.**

Office hours are for Summer 2026 only from May 18 to July 22, 2026.

Teaching Assistants: (Check on Canvas)

CSCE 2110 - 400 - Foundations of Computing		
Name	**Email**	**Office Hours**
Khoa Ho	khoa.ho@unt.edu	Check Canvas for hours and contact information

Course Description:

Introduce students to the basics of more organized software developments. This includes the basics of using Integrated Development Environments (IDE), proper debugging and testing strategies, and the use of code repositories. Students will be expected to work in teams to develop programming solutions in C or C++. Additionally, the effective use of regular expressions to parse text and the use of hash tables to store data will be covered. By the end of the foundation courses, each student will have a solid foundation in conceptual and formal models and levels of abstraction as used in the field of computer science, as well as greater proficiency in software development.

Expected Student Outcomes

Student Outcomes are measurable achievements to be accomplished by the completion of the degree. These outcomes are evaluated as part of our ABET accreditation process.

Computer Engineering Students:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Computer Science Students:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Apply computer science theory and software development fundamentals to produce computing-based solutions.

Information Technology Students:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems.

Expected Course Outcomes:

Course Outcomes are measurable achievements to be accomplished by the completion of the course. These outcomes are evaluated as part of our ABET accreditation process.

1. Demonstrate the ability to use Integrated Development Environments (IDE) and use formal debugging tools and techniques to develop C/C++ programs.
2. Demonstrate the ability to develop unit tests and testing strategies for C/C++ programs.
3. Demonstrate the ability to use code repositories for project development.
4. Use abstraction in the design and implementation of algorithms, such as sorting and searching algorithms.
5. Design and implement programming solutions to problems in C or C++.
6. Collaborate with other students in a team towards the design and development of programming solutions.
7. Use regular expressions in C/C++ programs to match patterns.
8. Use of hash tables in design of software.

Course Structure

Lecture Section 400(100% Online)**:**

This course takes place 100% online. Your interaction with the instructor and with your fellow students will take place on Canvas. There are 10 weeks of content that you will move through. I will be opening a new module per week. Participation in live video conferences, if there is any, is optional. This course is not self-paced but self-directed and requires students to read the textbook, other course resources posted on canvas and practice the material independently. You must complete in sequential order ALL activities and assignments listed in each of the modules and take three exams to successfully finish this course.

Credit hours: 3
Dates: May 18 to July 24, 2026

Communication Expectations: Since this is an online class, participation in weekly online activities is considered as attending the course. Additionally, you are expected to check Canvas content, due dates and assignments at least at three different days during each week of the course. You will be expected to regularly check university email. For quick questions, email is preferred, and you can expect a response within 48 hours during the work week (M-F 9am-4:30pm, no Saturday, no Sunday). When you send emails, please

use CSCE 2110 as part of your subject. Please do not expect a response over the weekend. Feedback on assignments, exams, and grades will usually be posted within two weeks after the due date.

For a grading issue, do not post your question as a comment after we have graded an assignment because we do not see those comments unless we revisit every graded assignment. Please email your grading issue questions.

AI Resources: The use of AI resources such Google or ChatGPT is prohibited during exams or wherever indicated in specific assignments. Otherwise, it is permitted for educational purposes and enrichment.

Syllabus Revisions:
This syllabus may be modified as the course progresses should the instructor deem it necessary. Notice of changes to the syllabus shall be made through Canvas and/or in-class announcements.

Materials

All materials (readings, videos, tutorials, quizzes, and assignments) will be accessible online and posted on the course Canvas site on the respective week at the latest.

REQUIRED TEXTBOOK
Our required textbook is an electronic book
ZyBooks: CSCE 2110: Foundations of Data Structures

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

The subscription is $104. Students may begin subscribing on Apr 20, 2026, and the cutoff to subscribe is Jul 19, 2026. Subscriptions will last until Aug 10, 2026.

Technical Requirements and Skills

Minimum Technology Requirements

- Computers are **required for this class**
  - **You must have access to a computer system with access to the Internet and capable of installing software and running Lockdown Browser. Chromebooks are not appropriate for an online class because you can't perform software installations.**
  - Quizzes and exams use the Canvas quiz system
    - Canvas Technical Requirements (https://clear.unt.edu/supported-technologies/canvas/requirements)
  - Students will be expected to connect to CELL Machines accounts and Download software as needed and indicated in class. You must download software and perform installations as needed.

Course Requirements

Readings, Quizzes, and Exams

Exams: Exam days are already posted and are considered fixed.
Missed exams: Exams cannot be missed. Proof of extenuating circumstances needs to be approved by the dean of students, but we do not have make-up exams.

Course assignments. There will be no make-up work for any graded course work activity in this course after their respective emergency extension. There are several course assignments such as quizzes, zyBooks readings, exams, weekly postings, and a group project. You need to solve the problems given and submit your answers by preferably days before their due date. However, most but not all course assignments have a 2-day emergency penalty free extension labeled as "Available Until" in Canvas. The emergency time extension should be used only to complete an assignment submission and NOT used to just start working on the assignment. There are no further extensions after the emergency extension. **WE DO NOT ACCEPT ASSIGNMENTS SUBMISSIONS BY EMAIL.** See the UNT Attendance Policy for more information. Please do not just start working on work course assignments after their due date and minutes before the emergency extension is about to expire. Getting sick the day the emergency extension expires without having done any prior work will not give you any further extension.

GRADING

Your course grade will be determined by a combination of the following:

- ZyBook Activities: 11%
- Online Discussion Assignments (Includes Labs): 22%
- Group Projects (Two): 16%
- Quizzes: 14%
- Exams (Three): 37%

Total 100%

> **Grading Policy:** By the end of the course, you must have earned at least 60% on average from the exams. Failure to do so will result in a final grade of an F, despite having a potentially passing course average.

Grading Scale: A>=90, B=80-89.9, C=70-79.9, D=60-69.9, F=0-59.9 %.

Extra Credit

Extra credit is optional. Be aware that we might not have any extra credit activity during this course. You do not have to participate in them to get an A in the course. These not-mandatory activities cannot be substituted or made-up. Extra credit activities would be special assignments with different point values. They are optional and they will be averaged separately from regular assignments. The final grade listed on Canvas will not include the extra credit. The final average extra credit percentage will be multiplied by 2.5 points, and those points will be considered only for determining the final letter grade. For example, if at the end of the course, a student has a 68% final score on Canvas for

*regular assignments, and such student has 100% in extra credit assignments. Then, to determine the student's final letter grade, we will do 68% + 100%*2.5= 70.5%. The extra credit would change that student's grade from D to C. However, another student with a final score on Canvas for regular assignments of 74% with an extra credit average of 100%, will not change the student grade of C to a B because 74% + 100%*2.5=76.5% which is still a C. In conclusion, extra credit is optional, you must qualify to validate your extra credit, additionally, extra credit only helps those students with borderline letter grade limits since the maximum points added to your final score is 2.5 points. Further, letter grades are not reflected on Canvas. Letter grades are posted on my.unt.edu.*

The Final grade on Canvas will not ever be modified by the Extra Credit. Your 2.5 points max extra credit will be considered only to move you from one letter grade to a higher letter grade if your final grade posted on Canvas is within 2.5 points of the next letter grade. Therefore, if your final grade is, for example, 79.95 on Canvas, then you need some extra credit to move your grade from C to B.

To qualify for extra credit, you should not have incurred any of the penalties indicated in the next section.

Penalties

Incurring any of the following penalties disqualifies you to receive any extra credit.

1. ***Cheating:*** Cheating on tests and programs will be dealt with very severely. You must make a diligent effort to prevent other students from seeing your test answers. Keep your paper covered and do not let your eyes wander during tests. You should not receive or give help to others while taking an exam. We also monitor responses to course assignments generated by AI resources such as ChatGPT.
   First offense of Receiving or giving help while taking an exam= -25% deducted from grade
   Second offense of Receiving or giving help while taking an exam=
   0% in the exam. The exam will not be graded.
   One or more incidents of cheating in exam= 0% in Exam
   Cheating on a second exam= F in the course
2. ***Plagiarism:*** Plagiarism is a form of cheating. Copying someone else's program, changing a few lines, and turning it in as your own is plagiarism; thus, this is cheating. Each student writes his or her own programs. You should not receive or give help to others on any program that goes beyond help in deciphering syntax errors. **First time penalty = 0% in assignment, second time penalty=F in the course**.
3. Inappropriate multiple requests of changing a grade for any of the following statements or something similar: (1) Being in probation, (2) last semester, (3) core course, (4) financial situation, (5) Being sick, (6) suspended from the university, (7) family issues, (8) others.

Course Evaluation

Student Perceptions of Teaching (SPOT) is the student evaluation system for UNT and allows students the ability to confidentially provide constructive feedback to their instructor and department to improve the quality of student experiences in the course.

Expectations

1. **Examination Policy:** Exams will be on the computer using the Canvas quiz system and Lockdown Browser. You need to have access to a computer capable of installing and running Lockdown Browser. Time will be limited, and all work will be individual. Exams will focus on the most recent material but are expected to be cumulative in scope.
2. Each student will be responsible for completing the assigned reading, exercises and attending classes.
3. **Attendance**: Since this is an online class. Participation in weekly online activities is considered as attending the course. If you miss participating in online activities, you are still responsible for knowing everything that took place. Your absence does not change the due date of an assignment. Even if you document that you were sick, you still must find available opportunities to complete the missing assignment. Being ill does not excuse nor waive any assignment. If an illness incapacitates you for a long period of time, you might consider in the best interest of your educational experience to request from the dean of students a medical withdrawal from the course.
4. **Grading Issues:** Once a grade has been posted for a course assignment, grading issues need to be addressed with graders first. Do not contact the instructor unless the grading issue is not solved by graders. However, you must contact the instructor if the grading issue is not solved by the graders. Additionally, we only have one week after a grade has been posted to address grading errors or any other issues. We cannot correct grades that have been posted on canvas for longer than one week.

UNT Policies

Academic Integrity Policy

Academic Integrity Standards and Consequences. According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

ADA Policy

UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one's specific course needs. Students may request accommodation at any time; however, ODA notices of 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 accommodation for every semester and must meet with each faculty member

prior to implementation in each class. For additional information see the ODA website (https://disability.unt.edu/).

Emergency Notification & Procedures

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Blackboard for contingency plans for covering course materials.

Retention of Student Records

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed via the Canvas online system, including grading information and comments, is also stored in a safe electronic environment for one year. Students have the right to view their individual record; however, information about student's records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University's policy. See UNT Policy 10.10, Records Management and Retention for additional information.

Acceptable Student Behavior

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. Visit UNT's Code of Student Conduct (https://deanofstudents.unt.edu/conduct) to learn more.

Access to Information - Eagle Connect

Students' access point for business and academic services at UNT is located at: my.unt.edu. All official communication from the University will be delivered to a student's Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail Eagle Connect (https://it.unt.edu/eagleconnect).

Student Evaluation Administration Dates

Student feedback is important and an essential part of participation in this course. The student evaluation of instruction is a requirement for all organized classes at UNT. The survey will be made available during last weeks of the semesters to provide students with

an opportunity to evaluate how this course is taught. Students will receive an email from "UNT SPOT Course Evaluations via IASystem Notification" (no-reply@iasystem.org) with the survey link. Students should look for the email in their UNT email inbox. Simply click on the link and complete the survey. Once students complete the survey they will receive a confirmation email that the survey has been submitted. For additional information, please visit the SPOT website (http://spot.unt.edu/) or email spot@unt.edu.

Getting Help

Technical Assistance
UIT Help Desk (http://www.unt.edu/helpdesk/index.htm)
Email: helpdesk@unt.edu
Phone: 940-565-2324
In Person: Sage Hall, Room 130
Walk-In Availability: 8am-9pm
Telephone Availability:

- Sunday: noon-midnight
- Monday-Thursday: 8am-midnight
- Friday: 8am-8pm
- Saturday: 9am-5pm

Laptop Checkout: 8am-7pm

Student Support Services

- Registrar (https://registrar.unt.edu/registration)
- Financial Aid (https://financialaid.unt.edu/)
- Student Legal Services (https://studentaffairs.unt.edu/student-legal-services)
- Career Center (https://studentaffairs.unt.edu/career-center)
- Multicultural Center (https://edo.unt.edu/multicultural-center)
- Counseling and Testing Services (https://studentaffairs.unt.edu/counseling-and-testing-services)
- Student Affairs Care Team (https://studentaffairs.unt.edu/care)
- Student Health and Wellness Center (https://studentaffairs.unt.edu/student-health-and-wellness-center)
- Pride Alliance (https://edo.unt.edu/pridealliance)
- Academic Support Services
- Academic Resource Center (https://clear.unt.edu/canvas/student-resources)
- Academic Success Center (https://success.unt.edu/asc)
- UNT Libraries (https://library.unt.edu/)
- Writing Lab (http://writingcenter.unt.edu/)
- MathLab (https://math.unt.edu/mathlab)

Course Calendar

Summer 2026

All Module i Assignments are due on Mi, but Exams are due on Ei
All Module i Assignments have universal extensions until Mi-ext (from 24 to 72 hours), but Exams have extensions until E1-ext (up to 24 hours).

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5/17/2026	5/18/2026	5/19/2026	5/20/2026	5/21/2026	5/22/2026 M1	5/23/2026
5/24/2026	5/25/2026 Memorial Day	5/26/2026 M1-ext	5/27/2026	5/28/2026	5/29/2026 M2	5/30/2026
5/31/2026	6/1/2026 M2-ext	6/2/2026	6/3/2026	6/4/2026	6/5/2026 M3	6/6/2026
6/7/2026	6/8/2026 M3-ext	6/9/2026	6/10/2026 E1	6/11/2026 E1-ext	6/12/2026 M4	6/13/2026
6/14/2026	6/15/2026 M4-ext	6/16/2026	6/17/2026	6/18/2026	6/19/2026 Juneteenth	6/20/2026 M5
6/21/2026	6/22/2026	6/23/2026 M5-ext	6/24/2026	6/25/2026	6/26/2026 M6	6/27/2026
6/28/2026	6/29/2026 M6-ext	6/30/2026	7/1/2026 E2	7/2/2026 E2-ext	7/3/2026 Independence Day	7/4/2026 M7
7/5/2026	7/6/2026	7/7/2026 M7-ext	7/8/2026	7/9/2026	7/10/2026 M8	7/11/2026
7/12/2026	7/13/2026 M8-ext	7/14/2026	7/15/2026	7/16/2026	7/17/2026 M9	7/18/2026
7/19/2026	7/20/2026 M9-ext	7/21/2026 M10	7/22/2026 E3	7/23/2026 M10-ext and E3-ext	7/24/2026	7/25/2026

Universal extensions are penalty free, and they are intended for emergency only and/or any other accomodation. Students can use them as needed without contacting the instructor.
There will be no other extensions.