CSCE 2100: Foundations of Computing
Section 400, 100% Online
COURSE SYLLABUS, Fall 2025
Department of Computer Science and Engineering
University of North Texas

Instructor
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Office: Discovery Park E250G
Office Hours: Mondays 2:30PM to 3:20PM, and Tuesdays 10:00AM to 11:30AM
Office hours are for Fall 2025 only from August 18 to December 2nd, 2025.

Teaching Assistant:

CSCE 2100 - 400 - Foundations of Computing		
Name	**Email**	**Office Hours**
Madhurika Sunil Patil	MadhurikaPatil@my.unt.edu	Check Canvas

Course Description:
Conceptual and formal models, efficiency and levels of abstraction as used in the field of computing, big-Oh notation, combinatorics and conditional probability, basic operations of sets, functions, relations, trees and graphs, regular expressions, deterministic finite automata and non-deterministic finite automata to describe patterns in strings.

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. Define and use the basic operations of sets, functions, and relations.
2. Define and demonstrate the basic properties of trees and graphs.
3. Use elementary graph and tree algorithms including traversals and searches.
4. Describe assertions in propositional logic form.
5. Describe simple circuits, I/O, and satisfiability using Boolean logic.
6. Use combinatorics and conditional probability in solving real-world problems.
7. Demonstrate a solid foundation in conceptual and formal models by describing loop structures in summation and/or product notation.
8. Demonstrate an introductory knowledge of finite state machines.

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 16 weeks of content that you will move through. I will be opening a new module per week. Participation in video conferences, if 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: August 18 to December 12, 2025

<u>Communication Expectations:</u> You will be expected to regularly check university email and attend class regularly. When you miss a class, you are expected to check the course calendar shortly after class to be aware of assignments, quizzes, and other materials. Questions not answered in class are best asked before or after class. For in-depth assistance with the course content, you are expected to meet with the GA/TA prior to meeting with the instructor. 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). For questions requiring more elaboration or discussions not appropriate for the GA/TA, office hours are preferred.

<u>Topics</u>
1. Abstraction
2. Sets
3. Relations
4. Graphs
5. Trees
6. Propositional Logic
7. Boolean Algebra
8. Automata
9. Combinatorics
10. Series

<u>AI Resoures:</u> 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.

<u>Syllabus Revisions:</u>
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 class day at the latest.

<u>REQUIRED TEXTBOOK</u>
Our textbook is an electronic book
ZyBooks: CSCE 2100: Foundations of Computing

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.

A subscription is $89. Students may begin subscribing immediately and the cutoff to subscribe is Nov 27, 2025. Subscriptions will last until Dec 26, 2025.

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 open Google Colab accounts or Download Python on your system, and other software as needed and indicated in class. For your convenience and to avoid some software installations, you might have to open a Gmail account for this class. Otherwise, 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 are several course assignments. You need to solve the problems given and submit your answers by or preferably before the due date. Please do not work on course assignments the day before they are due. Getting sick the day before the due date, it will not give you an extension. However, most course assignments have a 3-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 to start working on the assignment. There are no further extensions after the emergency extension. **WE DO NOT ACCEPT ASSIGNMENTS SUBMISSIONS BY EMAIL.**

GRADING

Your course grade will be determined by a combination of the following:
- ZyBook Activities: 11%
- Online Discussion Assignments: 20%
- Quizzes: 14%
- Exams: 55%
    - Exam 1: 15 %
    - Exam 2: 20 %
    - Final Exam: 20 %

 Total 100%

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

Extra Credit Options
Extra credit is optional. You do not have to participate in them to get an A in the course. These not-mandatory activities cannot be substituted or make-up. They are optional. However, you must qualify to participate in extra credit options.
To qualify for extra credit, you should not have incurred any of the penalties indicated in the next section.
- **Early submissions** up 5% as indicated in assignment/exam. This means submitting before the due date.
- **Others indicated in class.** These depend on the assignment.

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 and in-class activities**: Since this is an online class. Participation in weekly online discussions is considered as attending the course.
4. 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 if possible available opportunities to complete the missing assignment. Being ill does not excuse nor waive any assignment.
5. Generally, late submission of any class work is not allowed. However, in the rare case that a course assignment has the option as indicated in class of late submission, it will have a reduction of points 20 % per day. Nevertheless, we do not have any course assignments planned to be submitted late.
6. **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.
7. Topics or discussions unrelated to class, suggestions about the logistic of the course are all welcome outside class but are considered disruptive during class and will affect negatively your "class contribution" grade and may impact at the discretion of the instructor your final grade.
8. **Tentative Course Schedule**

Week	Dates	Topic
1.	8/18-8/22	Module 1: Abstraction
2.	8/25-8/29	Module 2: Sets
3.	9/1(Labor Day)-9/5	Module 3: Relations
4.	9/8-9/12	Module 3 and 4: Relations and Graphs
5.	9/15-9/19	Module 4: Graphs
6.	9/22-9/26	Exam Review and Exam 1
7.	9/29-10/3	Module 5: Trees
8.	10/6-10/10	Module 6: Logic
9.	10/13-10/17	Module 6: Logic
10.	10/20-10/24	Module 7: Boolean Algebra
11.	10/27-10-31	Module 7: Boolean Algebra and Exam 2
12.	11/3-11/7	Module 8: Automata

13.	11/10-11/14	Module 9: Combinatorics and counting
14.	11/17-11/21	Module 10: Series
15.	11/24-11/28 Thanksgiving Break	Thanksgiving Break
16.	12/1-12/5	Review Final Exam

Final Exam
Online available from Saturday 12/6/25 at 12:00AM to Monday 12/8/25 at 11:59PM

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 weeks 13, 14 and 15 of the long 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

<u>Student Support Services</u>
- 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)