CSCE 1040 Computer Science II
Syllabus, Fall 2025

Instructor:	Dr. Amar M. Maharjan
Office:	NTDP E260J
Email:	**amar.maharjan@unt.edu** • Include CSCE 1040.001/002/003 in the subject line. • Always use your official UNT email address.
Class Time	Section 001: TuTh 2:00PM - 3:20PM (Env 125) Section 002: MoWe 9:00AM - 10:20AM (Gate 132) Section 003: Mo 5:00PM - 7:50PM (Gab 105)
Office Hours:	My office hours are from **11:00 AM to 12:00 PM (GAB 330) on Monday**, and **11:30 AM – 12:30 PM (NTDP E260J) on Wednesday**. Please feel free to drop in or to set up an appointment by contacting me. If these office hours don't work for you, please let me know, and we can find another time to meet.
Zoom link:	**https://unt.zoom.us/j/7033013440**
Prerequisite(s):	CSCE 1030 and MATH 1100 or 1650 or 1710, with a grade of C or better.

TAs/IAs office hours: See canvas page "TAs/IAs: Offices and Labs Information"

Course Catalog Description

CSCE 1040, the second course in the introductory sequence, focuses on more advanced C programming, designing, and implementing larger software projects, introduction to dynamic data structures, and a beginning exploration of Object-Oriented paradigms using C++. The main focus is on developing students' software development skills.

Course Outcomes

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

1. Write readable, efficient, and correct C++ programs for all programming constructs defined for Programming Fundamentals I plus dynamic memory allocation, bit manipulation operators, exceptions, classes, and inheritance.
2. Design and implement recursive algorithms in C/C++.
3. Use common data structures and techniques such as stacks, queues, linked lists, trees, and hashing.
4. Create programs using the Standard Template Library.
5. Use a symbolic debugger to find and fix runtime and logical errors in C software.
6. Using a software process model, design and implement a significant software application in C++. Significant software in this context means a software application with at least five files, ten functions and a make file.
7. Implement, compile, and run C++ programs that include classes, inheritance, virtual functions, function overloading and overriding, as well as other aspects of Polymorphism.

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 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 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.

Textbook:

We are a zyBooks text this semester as the required textbook.
zyBooks code: **UNTCSCE1040MaharjanFall2025**

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

You must subscribe using your UNT e-mail so that it can be tracked back to Canvas as you must access all assignment links to zyBooks through Canvas. Any issues with your zyBooks account (such as not recording grades on Canvas for completed zyBooks assignments) can be addressed by sending an email to support@zybooks.com and detailing the issue.

Recommended Reference Book

Walter Savitch, Problem Solving with C++, 9th Edition, Addison-Wesley
ISBN-10: 0133591743
ISBN-13: 978-0133591743

I reserve the right to modify course policies, the course calendar, assignment or project point values, and due dates.
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, zyBooks, PuTTY (or

similar tool) to connect to the CSE servers, and WinSCP (or similar tool) to upload/download files from the CSE servers. 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.

Course Evaluation

The Student Perception of Teaching (SPOT) survey is a requirement for all organized undergraduate classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider SPOT to be an important part of your participation in this class.

ADA Statement

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://www.unt.edu/oda). You may also contact ODA by phone at (940) 565-4323.

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. The Code of Student Conduct can be found at https://studentaffairs.unt.edu/dean-of-students/conduct

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 Canvas for contingency plans for covering course materials or change in calendar per the Emergency Notifications and Procedures Policy.

Grading Policy

The various components of your grade are weighted as follows:

Lab Assignments	15% drop 1
Participation Assignments (zyBooks, and in class activities) Challenge Assignments (zyBooks)	15% drop 1 10% drop 1
Homework/Projects	20%
Lab Assessments 1-3 (in person)	30%
Final Exam (online)	10%

Grades will be posted on Canvas throughout the semester to provide an ongoing assessment of student progress, **though the final assessment will be measured using the weighted average above**. Once a grade is posted on Canvas, students have **two (2) weeks** to dispute the grade (but not in the last assignment/homework or final exam, usually), unless otherwise instructed. The proper channel for grade disputes is to first go to the original grader (either the TA or IA) in an attempt to resolve the issue. If, however, a resolution cannot be reached between the student and the grader, the student shall then go to the instructor who will have the final say on the grade.

Lab Assignments: Students are responsible for submitting the correct assignments (i.e., uploading the proper files) for each applicable assignment submission on Canvas or zyBooks. A missed lab due to tardiness or absence in the lab may result in a grade of 0 for the missed lab. The lowest lab assignment grade will be dropped.

Participation and Challenge Activities: The participation and challenge activities grades will be based on the timely completion of assigned Participation Activities and Challenge Activities, respectively, in the required zyBooks e-book. **Pay special attention to see that your zyBooks scores match your Canvas scores for these activities. Your assignments are autograded, so your Canvas score must populate immediately after you submit on zyBooks. If they don't, start the activity on Canvas and submit again.**

Homeworks: All non-lab programming assignments are due at 11:59pm on the due date. **Programming assignments will not be accepted late beyond a 30-minute grace window unless there are verifiable system problems or outages of service on Canvas.** Partial credit will only be given for programs that compile but are not complete. **No regular or late credit will be given for programs that do not compile on the CSE Linux servers or in the E-Book environment as assigned! The only points you may earn for non-compiling assignments are any points for design or report components.** If you are having trouble with an assignment, please consult with your instructor, TAs, IAs, or Peer Mentors associated with the class.

Assessment Exams: There will be three assessment examinations given on this course. These exams will be given during the assigned lab section to assess the student's programming ability. The dates of these exams will be posted on Canvas and/or announced in class at least one week prior to the date of the exams. A make-up exam will be given at the discretion of the instructor when a student misses an exam with an excused absence. Unexcused absences on the date of an exam may result in a grade of 0 for the missed exam, so every effort should be made to attend

class on the day of a scheduled exam.

Final Exam: There will be a final exam during the scheduled exam time on the following day:

- **Section 001: Thursday, Dec 11, 2025 (1:30 P.M. - 3:30 P.M.).**
- **Section 002: Wednesday, Dec 10, 2025 (8:00 A.M. - 10:00 A.M.).**
- **Section 003: Monday, Dec 08, 2025 (4:00 P.M. – 6:00 P.M.).**

All students are expected to take the final exam during the scheduled time period.

Course Policies

Lecture Section: Class attendance is regarded as an obligation as well as a privilege. All students are therefore expected to attend each class meeting. A student who misses class is still responsible for finding out what was discussed and to learn the material that was covered and obtaining the homework that was assigned on the missed day. The instructor is not responsible for re-teaching material missing by a student who did not attend class. Therefore, each student is accountable for and will be evaluated on all material covered in this course, regardless of attendance. If there are extenuating circumstances preventing you from attending the class, please notify your instructor so that you can work together to ensure your success in learning the material.

Lab Section: **Students are required to attend their assigned weekly lab sessions.** If you anticipate being unable to attend your regular lab section with a valid excuse, you must contact your instructor in advance of your lab section and before the lab is closed so that an alternate lab section may be scheduled. Failure to do so may result in a zero for the lab, but please keep in mind that the lowest lab grade will be dropped. The instructor has the final say as to whether or not an absence is excused.

Safety Procedures and Guidelines for Lab Sessions: While working in laboratory sessions, students enrolled in CSCE 1040 are required to follow proper safety procedures and guidelines in all activities requiring lifting, climbing, walking on slippery surfaces, using equipment and tools, handling chemical solutions and hot and cold products. Students should be aware that UNT is not liable for injuries incurred while students are participating in class activities. All students are encouraged to secure adequate insurance coverage in the event of accidental injury. Students who do not have insurance coverage should consider obtaining Student Health Insurance. Brochures for student insurance are available in the UNT Student Health and Wellness Center. Students who are injured during class activities may seek medical attention at the Student Health and Wellness Center at rates that are reduced compared to other medical facilities. If students have an insurance plan other than Student Health Insurance at UNT, they should be sure that the plan covers treatment at this facility. If students choose not to go to the UNT Student Health and Wellness Center, they may be transported to an emergency room at a local hospital. Students are responsible for expenses incurred there.

Make-up Labs: You are not permitted to go to a different lab section than the one you are registered for. However, if you have to miss your lab section due to unavoidable circumstances such as health or other university engagements, you may be granted permission to complete your lab in a different lab section with instructor permission. To request permission, you need to email the instructor with the following information:

- Which lab are you missing? Provide date, time and lab section number.
- Why are you missing the lab? Attach documentation such as receipts, doctor's note, etc. for proof.
- When do you want to make up the lab? Provide date, time and lab section number. A list of available labs to choose from is available in the Lab Schedule spreadsheet on Canvas. Make sure you choose a lab with small enrollment so that you can be accommodated in the lab.

Requests for make-up labs without this information will not be considered.

Programming Assignments: Starting early on programming projects is strongly encouraged. Students typically have great difficulty completing their projects one night the day before they are due. Students are allowed to discuss program design and other high-level issues with each other. Students are also allowed to help each other understand specific compiler or runtime error messages. Copying all or part of another person's program is strictly prohibited and will be treated as cheating. All programs will be submitted through the class Canvas website. No assignments will be accepted for grading via email or on paper.

Communications: The instructor, peer mentors and TAs require a current copy of the program when a student is asking a question about a program. Questions must be specific. Please do not send a program and simply say "This does not work". Also please be prepared to show and explain your design when asking questions. If you have not completed a design then the TA, Peer Mentor or Instructor may require you to complete one before answering questions about program logic for your code.

Course Status: All pertinent information about the class (assignments, exam reviews) is available via the class webpage. If there is ever a question as to when something is due, or an additional copy of a course document is needed, ALWAYS check the class webpage. If you feel there is incorrect or missing information on the class website, email the instructor about the problem immediately. Electronic mail (email) will be a major means of communication with the instructor outside of actual classroom discussions.
Please keep this information sheet handy during the semester and always periodically check the class homepage for any course information, including scheduling of programming assignments, exams, and exam reviews.

Class Notes and Programming Examples
The lecture slides will be available on Canvas. The programming examples provided in the class will be on the CSE servers inside my public folder. You will need an SSH client to access the server and an SFTP client to download my examples to your personal computer. An announcement will be posted on Canvas for future reference. There is also a document named **Accessing CSE Servers** on Canvas that shows you how to access these programming examples. You can also bring your own computer to the class and type along with me during the programming demonstrations.

Academic Integrity
This course follows UNT's policy for Student Academic Integrity that can be found at **https://policy.unt.edu/policy/06-003** as well as the Cheating Policy for the Department of

Computer Science and Engineering (posted on Canvas). Specifically, the first instance of a student found to have violated the academic integrity (i.e., cheating) policy will result in a grade of "F" for the course and have a report filed into the Academic Integrity Database, which may include additional sanctions. And although you may seek assistance from your TA/IA, Peer Mentors, and other students during the lab session for non-exam lab assignments, you are required to work on your own lab assignment and turn in your individual work to Canvas before the lab session is complete, unless directed otherwise. Individual programming assignments (i.e., projects) given outside of the lab in this course are meant to be problem-solving exercises and must be the sole work of the individual student. You should not work with other students on shared program solutions or use program solutions found on the Internet. **You should not work with other students on shared program solutions or use program solutions found on the Internet or use answers from Generative AI/LLMs such ChatGPT, Gemini or Copilot**. Specifically, you should never copy someone else's solution or code and never let a classmate examine your code. A sophisticated program will be used to compare your work to the work of all other students (including students in past classes). If you are having trouble with an assignment, please consult with your instructor, TAs, IAs, or Peer Mentors associated with the class. You must do your own work on participation and challenge assignments as well as exams. There should be no ambiguity here. In case the above description and in-class discussion of appropriate and inappropriate collaboration do not answer all of your questions, please meet with your instructor and look at the university Student Rights and Responsibilities web page.
All department policies on Academic Integrity and Student Conduct apply for this course – these are available at the following link: https://engineering.unt.edu/cse/students/resources/academic-integrity.html. Any exceptions to these guidelines are noted explicitly in the syllabus.
A more complete policy will be made available soon, but for now be aware the "unauthorized" use of any person or technology that assists in a student's assignment, project, or paper is considered cheating under the UNT Student Academic Integrity Policy (UNT Policy 6.003). Unless a professor or instructor gives explicit "authorization," AI cannot be used to assist in the completion of assignments, projects, or papers. Doing so will result in a "cheating" violation. Again, if uncertain contact the instructor prior to using AI tools.

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 class announcement.

Tentative Class Schedule (subject to change):

Week	Date	Material Covered	Remarks
1	08/18 - 08/22	Syllabus, M1: Introduction and Review (Structures, Pointers, Dynamic Memory)	Lab0 (optional – ungraded) No labs this week
2	08/25 - 08/29	M1: Introduction and Review	Lab1
3	09/01 - 09/05	M2: Classes and Objects	Lab2
4	09/08 - 09/12	M2: Classes and Objects	Lab3

5	09/15 - 09/19	M3: Constructors and Destructors, Copying objects	Lab4
6	09/22 - 09/26	M4: Standard Template Library, **Review**	Lab5
7	09/29 - 10/03	M4: Standard Template Library	**Lab Exam 1**
8	10/06 - 10/10	M5: Data Structures and Tools	Lab6
9	10/13 - 10/17	M5: Data Structures and Tools, **Review**	Lab7
10	10/20 - 10/24	M6: Recursion	**Lab Exam 2**
11	10/27 – 10/31	M7: Inheritance	Lab8
12	11/03 – 11/07	M7: Inheritance	Lab9
13	11/10 – 11/14	M8: Exceptions, **Review**	Lab10
14	11/17 – 11/21	M8: Exceptions	**Lab Exam 3**
15	11/24 – 11/28	No classes	**Thanksgiving Break**
16	12/01 – 12/05	M9: Class and Function Templates, **Review**	
17	12/08 – 12/12	Final Exam	

Important Dates:
08/18: First day of term
09/01: Labor Day (Monday) - No classes
11/24 – 11/30: Thanksgiving Break – No classes
12/12: Last day of term
See UNT Fall 2025 Semester Calendar