Course Instructor: Dr. Pradhumna Shrestha
Office: Frisco Campus Room 126
E-mail Address: pradhumna.shrestha@unt.edu
  • Include CSCE 1030.501 in subject line
  • Always use your official UNT email address
Class Location/Time: Frisco Campus Room 123, MoWe 2:30 PM – 5:20 PM
Laboratory Hours: Frisco Campus Room 111, MoWe 11:30 PM- 2:20 PM
Office Hours: Tuesday 4.30 PM-5.30 PM or by appointment
Teaching Assistant: Venkata Yanambaka
  Email Address: venkataprasanthyanambaka@my.unt.edu
  Office Hours: MoWe: 10.30 AM – 11.30 AM
  Location: Contact to schedule
Required Textbook: We are using an e-book called zyBook this semester:
Canvas
This course will use the Canvas learning management system (LMS) to distribute course materials, communicate and collaborate online, post grades, and submit assignments. You are responsible for checking the Canvas course site regularly for class work and announcements.
COURSE DESCRIPTION
CSCE 1030 is the introductory course for the computer science, computer engineering and information technology degrees offered by the Department of Computer Science and Engineering. As such it introduces students to the broad discipline of computing while placing emphasis on developing students’ programming skills.
TOPICS (subject to change)
1. Basic CPU Architecture
2. Basic Data Types
3. Program Structure and Design
4. Algorithms
5. Comments
6. Basic Compiler understanding and operation
7. Pre-processor instructions
8. Expressions, statements and operators
9. Arithmetic and logical expressions
10. Loops and conditionals and other flow control
11. Functions
12. Arrays
13. Console I/O both C style and C++ style
14. Pointers
15. File I/O both styles
16. Strings both CStrings and String class
17. Structures and unions
18. Command Line Arguments
19. Using libraries
20. Debugging

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. Describe how a computer’s CPU, Main Memory, Secondary Storage and I/O work together to execute a computer program.
2. Make use of a computer system’s hardware, editor(s), operating system, system software and network to build computer software and submit that software for grading.
3. Describe algorithms to perform “simple” tasks such as numeric computation, searching and sorting, choosing among several options, string manipulation, and use of pseudo-random numbers in simulation of such tasks as rolling dice.
4. Write readable, efficient and correct C/C++ programs that include programming structures such as assignment statements, selection statements, loops, arrays, pointers, console and file I/O, structures, command line arguments, both standard library and user-defined functions, and multiple header (.h) and code (.c or .cpp) files.
5. Use commonly accepted practices and tools to find and fix runtime and logical errors in software.
6. Describe a software process model that can be used to develop significant applications composed of hundreds of functions.
7. Perform the steps necessary to edit, compile, link and execute C/C++ programs.

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 Accommodation (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 see the Office of Disability Accommodation website at http://www.unt.edu/oda. You may also contact them 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 http://deanofstudents.unt.edu.

GRADING POLICY
Your course grade will be a weighted average according to the following:

- Attendance/Class Participation 5.0%
- Participation Activities 5.0%
- Challenge Activities 10.0%
- Lab Assignments 10.0%
- Homework Assignments 10.0%
- Quiz 10.0%
- Mid-Term Programming Exam 25.0%
- Final Programming Exam 25.0%

Note: You must pass BOTH the exam portion AND the non-exam portion (participation activities, challenge activities, assignments, and quizzes) with a grade of D or better in order to pass this course. Hence, an overall average greater than 70% may still result in a failing grade in some cases.

Grades will be posted on Canvas throughout the semester to provide an ongoing assessment of student progress, though final assessment will be measured using the weighted average above. Once a grade is posted on Canvas, students have one (1) week to dispute the grade. The proper channel for grade disputes is to first go to the original grader (the TA) 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.

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 zyBook e-book.

Lab Assignments: Lab assignments will be assigned and completed during the assigned lab section. Unless otherwise instructed by the instructor or Lab TA, students must be present in the lab classroom and complete each component of the lab during the scheduled lab time to receive credit for the lab. Each lab assignment will be graded using the average of all lab components based on a 0/50/75/100 scale for each component. In lab components where
comments are required, but are either missing or unsatisfactory will result in the next lower grade being assigned (i.e., a 75 will become a 50, etc.) for that lab component. A missed lab due to tardiness or absence may result in a grade of 0 for the missed lab. There will be no make-up labs, though the lowest lab assignment grade will be dropped.

**Homework Assignments:** Approximately 4-5 homework assignments will be given in the semester. These programming assignments will be accepted up to 24 hours late and be assessed a 50% grade reduction penalty. Programming assignments submitted more than 24 hours late will not be accepted and receive a grade of 0.

**Quiz:** The weekly quizzes will be given during the first 15 minutes of the laboratory sessions every Monday. The quiz content will be based on the materials discussed during previous week. The quizzes will be closed book, closed reference and each student must give the quiz on their own. The purpose of the quiz is to test the students on course materials that cannot be easily tested through programming activities. Be on time for your labs, otherwise you’ll miss the quiz. A missed quiz cannot be repeated under any circumstances. The lowest quiz score will be dropped.

**Mid-Term Exam:** The mid-term exam will be given during the assigned lab section to assess the student’s programming ability. The date of the exam will be posted on Canvas and/or announced in class at least one week prior to the date of the exams (tentative date: Wednesday, 6/27).

**Final Exam:** The final exam will be given during the assigned lab section to assess the student’s programming ability. The exam will be given on Wednesday 7/25.

**ATTENDANCE POLICY**

**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 to find out what was discussed and to learn the material that was covered and obtain the homework that was assigned on the missed day. The instructor is not responsible for re-teaching material missed 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 expected to attend and be on time for their assigned weekly lab section. Missing or being tardy to a lab may result in a zero or a lower-than-usual grade for a lab, and you’ll miss the quiz as well. You must be present in the lab to do the lab work. Completing the lab from a remote location is not allowed under any circumstances. No make-up lab sessions can be provided for any missed labs. Keep in mind that the lowest lab grade will be dropped.

**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. Collaboration with other students is only acceptable for lab assignments that are not given as part of an exam. And although you may seek assistance from your TA, and other students during the lab session for non-exam lab assignments, you are still 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 homework assignments 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. 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 or TA 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.

**STUDENT RESPONSIBILITY**

Students are responsible for submitting the correct assignments (i.e., uploading the proper files) for each applicable assignment submission on Canvas. In certain cases, when an assignment is submitted on time, but to an incorrect assignment location (e.g., submitting Lab 04 to Lab 05 location on Canvas), the assignment may be assessed a 30% reduction penalty if the due date has passed. If you have any questions or concerns about your submission, please work with your instructor or TA to ensure the correct file(s) is/are submitted.

**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.