

**The University of Texas at El Paso
Computer Science
CS 1320: Computer Programming Sci/Engr**

COURSE INFORMATION

CS 1320: Computer Programming Sci/Engr

CRN: 11629

Term: Fall 2024

Delivery Method: In-person

Meeting Day and Time: Monday and Wednesday, 10:30am – 11:50am MT

Location: Physical Science Building 115

INSTRUCTOR INFORMATION

Instructor: Kuldeep Singh, Dr.

Written Communication: Email (ksingh2@utep.edu)

Office Location: Chemistry Computer Science Building (CCSB), Room 3.0602

Office Hours:

- Face-to-Face: MW at 1:30pm-2:30pm MT.or by appointment

TEACHING ASSISTANT INFORMATION

There are two TA's who will be helping students in this course. Teaching assistant (TA) office hours will be conducted in **room CCSB:1.0706**. Other details are as follows:

Teaching Assistant 1

Name: Md Isteak Uddin

Email: muddin2@miners.utep.edu

Office Hours:

- Monday 12:00pm-1:00pm (In-person)
- Tuesday 11:00am-12:00pm (Online: Through Zoom or Teams)
- Wednesday 12:00pm-01:00pm (In-person)
- Thursday 05:00pm-06:00pm (In-person)
- Friday 04:00pm-05:00pm (Online: Through Zoom or Teams)

Teaching Assistant 2

Name: Md Ahsanul Haque

Email: mhaque3@miners.utep.edu

Offline Office Hours:

- Monday 09:30am-10:30am (Online: Through Zoom or Teams)
- Tuesday 02:00pm-03:00pm (In-person)
- Wednesday 09:00am-10:00am (In-person)
- Thursday 04:00pm-05:00pm (In-person)
- Friday 10:30am-11:30am (Online: Through Zoom or Teams)

*COURSE DESCRIPTION

The primary goal of CS 1320 is to develop students' critical thinking and problem-solving skills with digital computers. A procedural programming language (C language) will be utilized to solve scientific and engineering oriented problems. This course introduces the C programming language features in the beginning of the semester. Topics covered include language and algorithm concept, data types, control structures, standard input/output, problem-solving, loops, functions, arrays, pointers, and other fundamental concepts. Students are expected to complete lab assignments and several programming assignments.

Students enrolled in CS 1320 should have successfully completed MATH 1508 with a grade of "C" or better. Students entering the course are assumed to have no background in Computer Science or programming. They should be familiar with running everyday software applications and using a computer. Learn about opportunities that exist to extend and expand on the practices and activities in this class within and beyond UTEP.

*COURSE OBJECTIVES AND UNIVERSITY LEARNING OUTCOMES

By the end of the course, students will be able to:

Objectives	Outcomes
Understand Programming Fundamentals	Students will be able to explain the concepts of variables, data types, control structures, loops, functions, arrays, and basic I/O operations in programming.
Code writing and debugging	Students will write, modify, and debug simple programs in the chosen programming language, identifying and correcting errors effectively.
Apply Problem-Solving Techniques	Students will be able to analyze real-world problems, design algorithms, flowcharts and implement solutions using appropriate techniques
Code Documentation	Students will create clear and concise code documentation, including comments, variable naming conventions, and explanation of code functionality.
Teamwork and Collaborative Coding	Students will collaborate effectively with peers in coding projects and learn team working skills.

*REQUIRED MATERIALS

All materials (readings, homework) for class will be posted on the zybooks, and all Assignments will be posted on the Blackboard learning management system (LMS). All students should have regular access to a computer and ensure your UTEP email account is working and that you have access to the Web and a stable web browser. All students need to carry their laptops in the classroom for the practice and development of code. Students will be required to install a C compiler (i.e., Visual Studio code or other). If you encounter technical difficulties beyond your scope of troubleshooting, please contact the Help Desk. Although all reading materials will be provided to students, they can also use the following books for exploration and testing skills.

Optional books:

1. **Title:** "C programming absolute beginner's guide" **Authors:** Greg Perry, and Dean Miller
2. **Title:** "C Programming: Test Your Skills" **Author:** Ashok Kamthane

***ASSIGNMENTS AND GRADING**

Your semester grade will be assessed based on a combination of exams, zyBook reading and assignments, quizzes, and an individual semester programming project. The percentages are as follows:

- Exams: 40%
- Reading, and Assignments in zybook: 35%
- Team Project: 15%
- Quizzes: 10%

Exam: Exam will help to evaluate the individual learning in the class. Two comprehensive exams will be administered to gauge students' progress and performance. Exam 1 will contribute to 20% of the final grade, while Exam 2 will hold a weightage of 20%.

Zybooks Reading and assignments: A fundamental component of the course involves weekly readings and homework assigned via the online Zybook learning platform. This practice is designed to facilitate the comprehension of concepts prevalent across various programming languages and nurture the development of practical programming skills. Students are required to acquire a Zybook subscription at the commencement of the semester.

Team Project: Collaborative learning takes center stage through team projects. Students, organized into teams of three, will synthesize their classroom knowledge to complete a comprehensive coding project. The evaluation of these projects will transpire towards the culmination of the course, promoting the application of acquired skills.

Quizzes: Quizzes administered without prior notice serve as spontaneous assessments to stimulate active participation in classroom activities and facilitate the continuous acquisition of new skills.

The nominal percentage-score to letter-grade conversion is as follows:

- 90% or higher is an 'A'
- 80-89% is a 'B'
- 70-79% is a 'C'
- 60-69% is a 'D'
- below 60% is an 'F'

***TECHNOLOGY REQUIREMENTS**

Some course content is delivered via the Internet through the Blackboard learning management system and Zybook Platform. Ensure your UTEP e-mail account is working and that you have access to the Web and a stable web browser. Google Chrome and Mozilla Firefox are the best browsers for Blackboard and Zybook; other browsers may cause complications. When having technical difficulties, update your browser, clear your cache, or try switching to another browser.

You will need to have access to a laptop/tablet in the classroom to complete the classroom task and practice programs. You will need to download or update the following software: Microsoft

Office, Adobe Acrobat Reader, Windows Media Player, QuickTime, and Java. Check that your computer hardware and software are up-to-date and able to access all parts of the course.

If you do not have word-processing software, you can download Word and other Microsoft Office programs (including Excel, PowerPoint, Outlook and more) for free via UTEP's Microsoft Office Portal. Click the following link for more information about [Microsoft Office 365](#) and follow the instructions.

IMPORTANT: If you encounter technical difficulties beyond your scope of troubleshooting, please contact the UTEP [Help Desk](#) as they are trained specifically in assisting with technological needs of students. Please do not contact me for this type of assistance. The Help Desk is much better equipped than I am to assist you!

COURSE COMMUNICATION:

I encourage students to ask questions and share reflections and feedback about the course. There are multiple ways to reach your instructor and TAs for help and questions:

- Office Hours: I will have office hours for your questions and comments about the course. My office hours are in-person; however, you can request a virtual meeting, and I will send you a Zoom link. Please see the days and times at the top of this syllabus.
- Email: UTEP e-mail is the best way to contact me. I will make every attempt to respond to your e-mail within 24 hours of receipt. When e-mailing me, be sure to email from your UTEP student e-mail account and please put the course number in the subject line. In the body of your e-mail, clearly state your question. At the end of your e-mail, be sure to put your first and last name, and your university identification number.
- Announcements: Check the Blackboard announcements frequently for any updates, deadlines, or other important messages.

ATTENDANCE AND PARTICIPATION

Our class meetings are in-person at Physical Science Building 115, every Monday from 10:30am to 11:50am, beginning August 26.

Attendance in the course is determined by participation in the learning activities of the course. Your participation in the course is important not only for your learning and success but also to creating a community of learners. Participation is determined by the completion of the following activities:

- Reading/Viewing all course materials to ensure understanding of assignment requirements.
- Participating in engaging discussions with your peers
- Other activities as indicated in the weekly modules.

Because these activities are designed to contribute to your learning each week, they cannot be made up after their due date has passed.

ILLNESS PRECAUTIONS

Please stay home if you have symptoms of a communicable illness. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodation.

***EXCUSED ABSENCES AND/OR COURSE DROP POLICY**

According to UTEP Catalog, “At the discretion of the instructor, a student can be dropped from a course because of excessive absences or lack of effort. A grade of “W” will be assigned before the course drop deadline and a grade of “F” after the course drop deadline.” See Policies and Regulations in the UTEP Undergraduate Catalog for a list of excuse absences. Therefore, if I find that, due to non-performance in the course, you are at risk of failing, I will drop you from the course. I will provide 24 hours advance notice via email.

OR

I will not drop you from the course. However, if you feel that you are unable to complete the course successfully, please let me know and then contact the [Registrar's Office](#) to initiate the drop process. If you do not, you are at risk of receiving an “F” for the course.

DEADLINES, LATE WORK, AND ABSENCE POLICY

All the assignments and projects are due at midnight (11:59 PM) of the provided date, unless otherwise stated. You may request up to three assignment extensions during the semester, with a combined total of no more than ten (10) days. No extension will be provided for the team project.

No extra extensions will be granted without a compelling reason due to circumstances beyond your control which must be documented by a healthcare provider letter, military activation order, obituary/memorial service notice, police/fire report, etc. If there is a campus emergency (e.g., weather, closure, etc.), I will send a message to the class with directions about assignments, deadlines, etc.

MAKE-UP WORK

Make-up work will be given *only* in the case of a *documented* emergency. Note that make-up work may be in a different format than the original work, may require more intensive preparation, and may be graded with penalty points. If you miss an assignment and the reason is not considered excusable, you will receive a zero. It is therefore important to reach out to me—in advance if possible—and explain with proper documentation why you missed a given course requirement. Once a deadline has been established for make-up work, no further extensions or exceptions will be granted.

ALTERNATIVE MEANS OF SUBMITTING WORK IN CASE OF TECHNICAL ISSUES

I strongly suggest that you submit your work with plenty of time to spare in the event that you have a technical issue with the course website, network, and/or your computer. I also suggest you save all your work in a separate Word document as a backup. This way, you will have evidence that you completed the work and will not lose credit. If you are experiencing difficulties submitting your work through Blackboard, please contact the UTEP Help Desk. You can email me your backup document as a last resort.

INCOMPLETE GRADE POLICY

Incomplete grades may be requested only in exceptional circumstances after you have completed at least half of the course requirements. Talk to me immediately if you believe an incomplete is warranted. If granted, we will establish a contract of work to be completed with deadlines.

***ACCOMMODATIONS POLICY**

The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodation will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the UTEP Center for Accommodations and Support Services (CASS). Contact the Center for Accommodations and Support Services at 915-747-5148, email them at cass@utep.edu, or apply for accommodation online via the CASS portal.

***SCHOLASTIC INTEGRITY**

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as ones' own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the [Office of Student Conduct and Conflict Resolution \(OSCCR\)](#) for possible disciplinary action. To learn more, please visit [HOOP: Student Conduct and Discipline](#).

***SYLLABUS REVISIONS**

I reserve the right to change the syllabus at any time. If I do change the syllabus, I will let you know via the Blackboard announcement or during the class session.

***GUIDANCE ON ARTIFICIAL INTELLIGENCE**

The use of generative AI tools such as Chat GPT is permitted in this course only for reading and learning purposes, which must be noted or cited as and whenever needed.

However, you may not use AI tools to complete the following activities:

- Assignment
- Project
- Exam

Students must cite any borrowed content sources to comply with all applicable citation guidelines, copyright law, and avoid plagiarism. Instances that violate these guidelines will be referred to the Office of Student Conduct and Conflict Resolution.

PLAGIARISM DETECTING SOFTWARE

Some of your course work and assessments may be submitted to SafeAssign, a plagiarism detecting software. SafeAssign is used to review assignment submissions for originality and will help you learn how to properly attribute sources rather than paraphrase.

***COURSE RESOURCES:**

UTEP provides a variety of student services and support:

Technology Resources

- [Help Desk](#): Students experiencing technological challenges (email, Blackboard, software, etc.) can submit a ticket to the UTEP Helpdesk for assistance. Contact the Helpdesk via phone, email, chat, website, or in person if on campus.

Academic Resources

- [UTEP Library](#): Access a wide range of resources including online full-text access to thousands of journals and eBooks plus reference service and librarian assistance for enrolled students.
- [University Writing Center \(UWC\)](#): Submit papers here for assistance with writing style and formatting, ask a tutor for help and explore other writing resources.
- [Math Tutoring Center \(MaRCS\)](#): Ask a tutor for help and explore other available math resources.
- [History Tutoring Center \(HTC\)](#): Receive assistance with writing history papers, get help from a tutor and explore other history resources.
- [RefWorks](#): A bibliographic citation tool; check out the RefWorks tutorial and Fact Sheet and Quick-Start Guide.
- [The Miner Learning Center](#): Join peer-led study sessions in person or online to review content and discover study strategies in core curriculum courses.
- [UTEP Edge](#): UTEP's cross-campus framework for student success and empowerment – develops students' assets through high-impact experiences made possible by the expertise and dedication of faculty, staff, alumni, and community partners.

Individual Resources

- [Student Success Help Desk \(SSHHD\)](#): Students experiencing challenges or obstacles to academic success including registration, financial, food, housing, and transposition resources may submit a ticket request assistance to studentsuccess@utep.edu
- [Military Student Success Center](#): Assists personnel in any branch of service to reach their educational goals.
- [Center for Accommodations and Support Services](#): Assists students with ADA-related accommodations for coursework, housing, and internships.
- [Counseling and Psychological Services](#): Provides a variety of counseling services including individual, couples, and group sessions as well as career and disability assessments.
- [UTEP Food Pantry](#): Non-perishable food items are available to students who are currently enrolled in classes. Bring a Miner Gold Card to Memorial Gym, Room 105, Monday through Friday, 10 a.m. to 2 p.m.