

CSE 1320 Intermediate Programming

Spring 2020

Instructor: Dr. Sajib Datta, ERB 652

Office Hours: MoWe 1:00PM - 2:30PM or by appointment

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Class hours: Sections 005: TuTh 12:30PM - 1:50PM – ERB 130

: Sections 004: TuTh 2:00PM - 3:20PM – ERB 130

Teaching Assistant: TBA

Course Description from Catalog:

Programming concepts beyond basic control and data structures. Emphasis is given to data structures including linked-lists and trees as well as modular design consistent with software engineering principles. Prerequisite: ENGR 1300, CSE 1105, CSE 1310 or CSE 1312, and MATH 1421 or MATH 1426 (or concurrently).

Course Objectives:

- Introduction to the C programming language
- Exposure to basic data structures
- Learn to use the Linux operating system

Textbook:

C By Discovery (4th Edition), Foster and Foster. ISBN-13: 978-1576761700 ISBN-10: 1576761703
Some other online resources will be provided.

Grading Policy:

Quizzes 15% (Pop Quizzes)

Labs 30% (5 labs)

Exams 30% (2 midterms, 15% each)

Final Exam 25%

Final grades are based on the standard ranges of A: 90–100, B: 80–89, C: 70–79, D: 60–69, F: 0–59.

Labs: Every lab assignment has a given due date. No late labs will be accepted without prior permission from the course instructor. (Five minutes late is still late.) Lab assignments will be posted on the class website. Lab assignments must be individual effort. The Statement of Ethics you will receive details the definitions of collusion, plagiarism, and academic dishonesty as related to lab assignments in CSE.

Each lab will be graded on a number of factors. Always make sure that a turned in lab compiles without warnings or errors even if it is not complete. You will receive partial credit for a working stubbed (incomplete) program. Programs that do not compile successfully (with compiler warnings or errors) will receive no credit. In addition to compiling successfully, the program must run without errors. If the program is only partially complete, the parts that are complete must run

without errors to receive credit for those parts. The program documentation should indicate which parts of the program are working. The TAs grading the labs will be running the programs to verify their performance.

Attendance: At The University of Texas at Arlington, taking attendance is not required. Rather, each faculty member is free to develop his or her own methods of evaluating students' academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section, I have decided that attendance at class meetings is not required but strongly encouraged.

Exams: Material covered on the exams will be based on the class lectures and assigned chapters. All exams are mandatory. There are NO make-up exams after the scheduled times. All exams will be kept by the instructor.

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. Students will not be automatically dropped for non-attendance.

American with Disabilities Act: The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the Americans with Disabilities Act (ADA). All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Title IX: The University of Texas at Arlington is committed to upholding U.S. Federal Law "Title IX" such that no member of the UT Arlington community shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity. For more information, visit www.uta.edu/titleIX.

Academic Integrity: At UT Arlington, academic dishonesty is completely unacceptable and will not be tolerated in any form, including (but not limited to) cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts (UT System Regents Rule 50101, 2.2). Suspected violations of academic integrity standards will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the students' suspension or expulsion from the University. Homework assignments are not group projects; each

student is expected to write his or her own programs individually. Students should not be showing each other their code prior to the deadline for submission.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may contact the Maverick Resource Hotline by calling 817-272-6107, sending a message to resources@uta.edu, or visiting www.uta.edu/resources.

Electronic Communication Policy: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly.

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as lecture, seminar, or laboratory will be asked to complete an online Student Feedback Survey (SFS) about the course and how it was taught. Instructions on how to access the SFS system will be sent directly to students through MavMail approximately 10 days before the end of the term. UT Arlingtons effort to solicit, gather, tabulate, and publish student feedback data is required by state law; student participation in the SFS program is voluntary.

Final Review Week: A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week unless specified in the class syllabus. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Tentative Class Schedule

Date	Topic	Labs
Jan 21	Course overview	
Jan 23	Working with Omega server, Variables, Statements, Operators	
Jan 28	Condition if-else, nested if-else	
Jan 30	Conditional switch, loop-while	

Feb 4	Loop do-while, loop-for	
Feb 6	Arrays	
Feb 11	Bitwise, String	Lab 1
Feb 13	Function	
Feb 18	Recursion	Lab 1 due
Feb 20	Search	
Feb 25	Exam 1	
Feb 27	Search and Sort	Lab 2
Mar 3	Variable scope	
Mar 5	Pointers	
Mar 17	Pointers	Lab 2 due
Mar 20	Pointers, General Input and Output	Lab 3
Mar 24	General Input and Output	
Mar 26	Dynamic memory	
Mar 31	Structure, Union	Lab 3 due
Apr 2	Exam 2	
Apr 7	Structure, Union	Lab 4
Apr 9	Linked list	
Apr 14	Linked list	
Apr 16	Stack, Queue	
Apr 21	Stack, Queue	Lab 4 due
Apr 23	Tree	Lab 5
Apr 28	Tree	
Apr 30	Tree	
May 5	Graphs	Lab 5 due
May 7	Review	
	Final	