CSE 1325: Object-Oriented Programming

Spring 2025

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course.
–George F. Rice

Instructor Information

Instructor Name
Mr. George F. Rice

Office Number
ERB 336
View Campus Map

Office Telephone Number
817-272-3785

Email Address
george.rice@uta.edu

Faculty Profile
George Rice (https://www.uta.edu/academics/faculty/profile?user=george.rice)

Office Hours
Tuesday and Thursday 12:30 am until the last student leaves or by appointment.

TA (Section 001): Apar Pokhrel
TA Email Address: apar.pokhrel@mavs.uta.edu
GitHub: pokhrelapar

TA (Section 002): Vindya Maraliga Venkatesh
TA Email Address: vxm7972@mavs.uta.edu
GitHub: TA-vindya

In lieu of office hours, TAs for all sections are available for assistance on-line according to the schedule at https://mavsuta.sharepoint.com/sites/cse13xx.

Office Hours

My preferred communication method is email. **Please include 'CSE1325' in the subject and copy both TAs on all class-related emails.** My goal is to respond to email within 24 hours.

Subscribe to the MavAlert system to be sent information in case of an emergency to your cell phone or email accounts. Anyone can subscribe at https://mavalert.uta.edu/

Emergency Phone Numbers: Call the UT Arlington Police Department at **2-3003** (campus phone), **817-272-3003** (non-campus phone), or 911. Non-emergency number is 817-272-3381.

Course Information

Section Information
CSE 1325 Sections 002 and 003 (NOTE: Canvas shows 002 for all sections. MyMav is accurate.)

Course Delivery Method
This course is designated ON-CAMPUS, which means face-to-face interaction in the classroom. For a full definition of the course modalities, please visit the Course Modalities page.

Time and Place of Class Meetings
This class will meet face-to-face on Tuesdays and Thursdays at 8:00 am (for Section 001) and 9:30 am (for Section 002) in Room TH 02.

Time Zone
This course operates on Central Time. All times listed for class meeting times, exams, and assignment deadlines are in Central Time.

Description of Course Content
Object-oriented concepts, class diagrams, collection classes, generics, polymorphism, and reusability in Java and C++. Projects involve extensive programming and include multi-threading.

Prerequisites
CSE 1320.

Student Learning Outcomes
By the end of this course, students will be able to:

- Program in the Java and C++ programming languages
- Implement concepts learned in previous classes in Java and C++
- Understand and apply the concept of encapsulation
- Understand and apply the concept of inheritance
- Understand and apply the concepts of polymorphism including generics
- Understand how to read and implement basic UML class diagrams
- Create a simple Command Line User Interface (CLI)
- Understand the concepts of multithreading (concurrency)
- Compare and contrast OO languages and procedural languages in terms of security, reliability, and reusability.
- Choose an appropriate type of language structure for a given problem
- Implement or employ basic common programming practices including agile processes, version control, and regression test frameworks

Textbooks and Other Course Materials
Textbook: **Java SE Tutorials**, by Jakob Jenkov, current web version
Textbook: **Learning the Java Language**, by Oracle, current web version
Textbook: **Learn C++** by Alex Pomeranz, current web version
Compilers: OpenJDK (version 21+) and Gnu Compiler Collection (version 13+) or equivalent
Build tools: Ant and make (latest versions)
Version Management: git (latest version)
Process Management: Office software (supplied online by UTA)

All course materials are available at no cost to the student.

Descriptions of major assignments and examinations

Exam #1: Thursday, February 13 in class

Exam #2: Thursday, March 20 in class

Exam #3: Thursday, April 24 in class

Benchmarks: Details are TBD

Expectations for Out-of-Class Study

Beyond the time required to attend each class meeting, students enrolled in this 3 credit-hour course should expect to spend at least an additional 9 hours per week of their own time in course-related activities, including reading required materials, completing assignments, preparing for exams, etc.

Technology Requirements

Students require use of Canvas and the above tools and online textbooks. Students in this course must set the Canvas notifications preferences to get immediate notifications of Announcements posted by the instructor and must check their UTA email daily. **Please include "CSE1325: " at start of email subject lines, add all TAs on the cc line, and use Reply All.** Visit the UTA Libraries Technology page for a list of items that can be checked out or used at the library.

Recording of Classroom and Online Lectures

Faculty maintain the academic right to determine whether recording of classroom and online lectures is permitted by students. Recordings of classroom lectures, if permitted by the instructor or pursuant to an ADA accommodation, may only be used for academic purposes related to the specific course and may not be used for commercial purposes or shared with non-course participants except in connection with a legal proceeding.

As the instructor of this course, I elect to allow recording of classroom or online lectures. Echo 360 recordings of lectures for both sections will be made available to students if supported.

Other Requirements

None

Grading Information

The current breakdown of the grade is as follows:

- **Post-Lecture Quizzes:** 5%
- **Pop Quizzes:** 10%
- **Homework:** 15%
- **Three Exams:** 50%
- **Benchmarks:** 20%

If Benchmarks are not given for any reason, Homework will count for 20% and Three Exams 65%.

Students are expected to keep track of their performance throughout the semester which Canvas facilitates, and seek guidance from available sources (including the instructor) if their performance drops below satisfactory levels; see "Student Support Services," below.

Final Grade Calculation

- 90.0 and above A
- 80.0 to 89.9 B
- 70.0 to 79.9 C
- 60.0 to 69.9 D
- Below 60.0 F

Any instance of cheating WILL be reported to the Office of Student Conduct with a recommendation of an F for the course. This includes the use of ANY Java or C++ code generation technology. *Zealously* guard your integrity.

Submitting work that substantially duplicates another current or previous student's work will result in an automatic non-droppable 0 for the entire assignment regardless of cause. For this reason, students should only use *private* git repositories to manage their assignments, exam papers should be protected, and solutions should *never* be shared.

Make-Up Exams & Late Work Policy
If a student sits any exam (which occurs when the exam paper is handed to the student), the student accepts responsibility for that exam. At that point, the exam will not be given again and no make-up will be scheduled.

If a student cannot sit an exam, and the student provides adequate documentation of why they did not attend, such as a doctor's note, then at the instructor's discretion either a make up exam will be scheduled or the average of the other exams will substitute. If the student fails to provide adequate documentation within 2 weeks of the scheduled exam date or within 3 days of the final exam date, then the grade will be a zero.

A dental appointment or other non-emergency health situation is not an acceptable excuse for missing any exam. Written documentation of an emergency health situation is required, and its adequacy will be solely determined by the instructor.

Assignments are due when scheduled with no extensions. **Late work will not be graded**.

Students should *never* predicate their decision to complete assignments and take exams on their own grade calculations. Grading errors will be corrected if identified up until the final grade is approved for the course, and students who skipped work relying on incorrect grades will not be given remedial work. The assignments and exams are for the student's benefit, and ALL are expected to be completed as assigned.

Grade Grievances
Once a grade has been posted, **the student will have 2 weeks to appeal that grade** to the instructor or his delegate. All appeals must be made via email only. Once a grade has been posted for 2 weeks or the appeal is resolved, the grade is final and will not be changed.

Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current University Catalog Grades and Grading Policies.

University & Course Policies

UTA students are encouraged to review the below institutional policies and informational sections and reach out to the specific office with any questions. To view this institutional information, please visit the Institutional Information page (https://resources.uta.edu/provost/course-related-info/institutional-policies.php) which includes the following policies among others:

- Drop Policy
- Disability Accommodations
- Title IX Policy
- Academic Integrity
- Student Feedback Survey
- Final Exam Schedule

Additional Information
None.

Attendance
Attending class sessions is a critical predictor and indicator of student success. The University of Texas at Arlington does not recognize a single attendance policy but encourages faculty to establish class-specific policies on attendance. As the instructor of this section, I will take periodic attendance via pop quizzes during class.

The U.S. Department of Education requires that UT Arlington have a mechanism in place to verify Federal Student Aid recipients' attendance in courses. UT Arlington instructors are expected to report the last date of attendance when submitting students' final course grades; specifically, when a student earns a course grade of F, instructors must report the last date a student attended their class. For on-campus classes, last date of attendance can be based on attendance rosters or on academic engagements—a test, participation in a class project or presentation, or Canvas-based activity. Online or distance education courses require regular and substantive online interaction and participation. Students must participate in online course activities in Canvas to demonstrate attendance; logging into an online class is not sufficient by itself to demonstrate attendance. The last date of attendance is reported to the U.S. Department of Education for federal financial aid recipients.

Generative AI Use in This Course
The use of Generative AI (GenAI) in course assignments and assessments must align with the guidelines established by the instructor. Unauthorized use of GenAI could result in breaches of academic integrity. Instructors bear the responsibility of clearly delineating the permissible uses of GenAI in their courses, underscoring the importance of responsible and ethical application of these tools.

The UTA Office of Community Standards articulate the university's stance on academic integrity and scholastic dishonesty. These standards extend to the use of GenAI. Unauthorized or unapproved use of GenAI in academic work falls within the scope of these policies and will be subject to the same disciplinary procedures.

As the instructor of this course, I have adopted the following policy on Student use of GenAI: Prohibition of GenAI Use.

Approach	Description
Prohibition of GenAI Use	In this course, the focus is on the development of independent critical thinking and the mastery of subject-specific content. To ensure that all submitted work accurately reflects personal understanding and original thought, the use of Generative AI (GenAI) tools in completing assignments or assessments is strictly prohibited. This policy supports our commitment to academic integrity and the direct measurement of each student's learning against the course's Student Learning Outcomes (SLOs). Any work found to be generated by AI will be subject to academic review.

The use of code generation technologies falls under the prohibition of GenAI use.

Academic and Wellness Resources

Academic Success Center
The Academic Success Center (ASC) includes a variety of resources and services to help you maximize your learning and succeed as a student at the University of Texas at Arlington. ASC services include supplemental instruction, peer-led team learning, tutoring, mentoring and TRIO SSS. Academic Success Center services are provided at no additional cost to UTA students. For additional information visit: Academic Success Center (https://www.uta.edu/student-success/course-assistance). To request disability accommodations for tutoring, please complete this tutoring request form (https://www.uta.edu/student-success/course-assistance/tutoring/request).

The English Writing Center (411LIBR)
The Writing Center offers FREE tutoring in 15-, 30-, 45-, and 60-minute face-to-face and online sessions to all UTA students on any phase of their UTA coursework. Register and make appointments online at the Writing Center (https://uta.mywconline.com). Classroom visits, workshops, and specialized services for graduate students and faculty are also available. Please see Writing Center: OWL (http://www.uta.edu/owl) for detailed information on all our programs and services.

Academic Plaza
The Library's 2nd floor Academic Plaza (http://library.uta.edu/academic-plaza) offers students a central hub of support services, including IDEAS Center, University Advising Services, Transfer UTA and various college/school advising hours. Services are available during the library's hours (https://library.uta.edu/hours) of operation.

UTA CARE Team
UT Arlington is committed to the safety, success, and well-being of our students. To support our community, UTA has created a CARE Team, which is a dedicated group of campus professionals responsible for helping students who could benefit from academic, emotional, or psychological support, as well as those presenting risk to the health or safety of the community. If you know of someone experiencing challenges, appearing distressed, needing resources, or causing a significant disruption to the UTA community, please submit a CARE Referral by visiting the Behavior Intervention Team (https://www.uta.edu/student-affairs/dos/behavior-it) page. You may also submit a referral for yourself if you would like additional support.

NOTE: If a person's behavior poses an immediate threat to you or someone else, contact UTA Police at 817-272-3303 or dial 911. If you or someone you know needs to speak with a crisis counselor, please reach out to the MAVS TALK 24-hour Crisis Line (https://www.uta.edu/student-affairs/caps/crisis)at 817-272-8255 or the National Suicide and Crisis Lifeline (https://988lifeline.org/) at 988.

Student Services
Everything you need to make the most of your time as a student (and beyond) is all on campus. Below are a few resources to get you started.

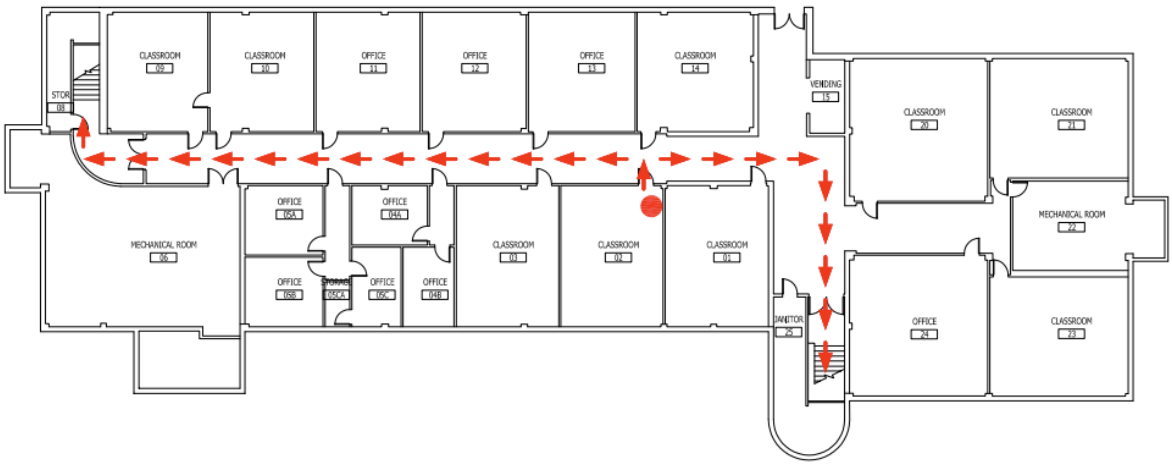
- Student Services Home
- Student Access and Resource (SAR) Center
- Military and Veteran Services
- Health Services
- Counseling and Psychological Services (CAPS)
- Activities and Organizations
- Recreation

Librarian to Contact
Each academic unit has access to Librarians by Academic Subject (https://libraries.uta.edu/research/librarians) that can assist students with research projects, tutorials on plagiarism and citation references as well as support with databases and course reserves.

Safety Information & Resources

Face Covering Policy
Face coverings are not mandatory; all students and instructional staff are welcome to wear face coverings while they are on campus or in the classroom.

Emergency Exit Procedures
Should we experience an emergency event that requires evacuation of the building, students should exit the room and move toward the nearest exit, which is located to the right or to the left when exiting the room.



When exiting the building during an emergency, do not take an elevator but use the stairwells instead. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

MavAlert System
The MavAlert system sends information in case of an emergency to cell phones or email accounts of subscribed users. Anyone can subscribe to MavAlerts at Emergency Communication System (https://www.uta.edu/uta/emergency.php).

Emergency Phone Numbers
In case of an on-campus emergency, call the UT Arlington Police Department at 817-272-3003 (non-campus phone), 2-3003 (campus phone). You may also dial 911. Non-emergency number 817-272-3381.

Course Schedule

Assignments are due every Tuesday at 8 am, except immediately following an exam.
Pop quizzes during lecture are common to encourage physical attendance and mental engagement. Post-lecture quizzes are due prior to the start of the following lecture or exam.

This class does not require or recommend specific readings per lecture. Optional reading opportunities are described during the first lecture and in Canvas for students who need additional assistance or who prefer a specific author's presentation style. Optional textbook and video resources will also be recommended in the first lecture for those who believe they would benefit.

Class Date	Lecture	Topic
Tue, Jan 14	0	Syllabus & Intro to Java
Thu, Jan 16	1	From C to Java
	2	(Video) Java Fundamentals
Tue, Jan 21	3	**Encapsulation**: Intro to Classes
Thu, Jan 23	4	Class Members
Tue, Jan 28	5	Error Handling, Testing, and Debugging
Thu, Jan 30	6	Class Relationships
Tue, Feb 4	7	**Inheritance & Custom Exceptions**
Thu, Feb 6	8	Interfaces, Package-Private, & JavaDoc
Tue, Feb 11	9	Writing an Object-Oriented Java CLI Application
Thu, Feb 13	Exam #1	
Tue, Feb 18	10	Review Exam and User Interfaces
Thu, Feb 20	11	File I/O
Tue, Feb 25	12	**Polymorphism**
Thu, Feb 27	13	Generic Programming (Generics)
Tue, Mar 4	14	Concurrency (Threads)
Thu, Mar 6	15	Java Class Library
Tue, Mar 11		Spring Break
Thu, Mar 13		Spring Break
Tue, Mar 18	16	Exam Review
Thu, Mar 20	Exam #2	Drop date is Mar 28 by 4 pm
Tue, Mar 25	17	Review Exam and Intro to C++
Thu, Mar 27	18	From Java to C++
Tue, Apr 1	19	Object-Oriented C++
Thu, Apr 3	20	C++ Class Members
Tue, Apr 8	21	Operator Overloading
Thu, Apr 10	22	Polymorphism in C++
Tue, Apr 15	23	File and String Streams in C++
Thu, Apr 17	24	C++ Standard Template Library
Tue, Apr 22	25	Exam Review
Thu, Apr 24	Exam #3	
Tue, Apr 29	26	Review Exam and Final Thoughts