

COURSE SYLLABUS

INTRODUCTION TO PROGRAMMING

COSC10403-074

Semester and Year:	Fall 20XX
Number of Credits:	3
Course Component Type:	LEC
Class Location:	XXX
Class Hours:	XXX
Instructor:	Dr. XXX
Office Location:	TUC XXX
Office Hours:	MW 12:00 PM – 01:30 PM or by Appointment
Email:	XXX
Preferred Method of Contact:	Email
Response Time:	Emails will be responded within 24 hours.

Final Evaluative Exercise & Important Dates

FINAL EXAM: DEC 10, 5:00 PM – 07:00 PM
Midterm Exam: Announced in the class/class announcement
Last Day to Drop: Nov 3
Last Day to Select P/NC: Dec 1

Other important dates will be communicated via class announcements.

Grader

TBD

Student Resources & Policy Information

Click or scan QR code for resources to support you as a TCU student.
Please note section on [Student Access and Accommodation](#) and
[Academic Conduct & Course Materials Policies](#).



COURSE DESCRIPTION

Description

The course introduces basic programming in Java. Introduction to computers, problem solving, algorithm design, programming techniques, problem organization, data representation, and how to utilize the computer to solve problems. You will learn to solve elementary numerical and logical problems in Java. You will also learn basic Graphical User Interface in Java.

Prerequisites

College algebra or two years of high school algebra.

COURSE MATERIALS

Required Materials

- Print: Gaddis, Tony, Starting out with Java: From Control Structures through Objects, 8th ed., Pearson, New York, NY, 10013, ISBN: 978-0-13-735794-9.
 - eTextbook \$9.99/mo, 4-month term) <https://www.pearson.com/en-us/subject-catalog/p/starting-out-with-java-control-structures-through-objects/P200000003368/9780137451524>
 - **Textbook Companion Website:** https://media.pearsoncmg.com/ph/esm/ecs_gaddis_java8e_REVEL/cw/
- Lecture slides and other course notes will be made available on TCU Online.
- Students **MUST** be able to access laptops to complete all assignments and exams. The operating system can be Windows or macOS.

Reference book:

Java Foundations: Introduction to Program Design and Data Structures, 5th Edition John Lewis, Peter DePasquale, and Joseph Chase. 978-0135205976 (**This book is not required, optional**)

Device Information: Students **MUST** be able to access laptops or desktops to complete all lab and assignments. The operating system can be Windows/macOS/Linux. Chromebook will not work for this class.

LEARNING OUTCOMES

Course learning outcomes

1. Understand basic programming and object-oriented design concepts
2. Establish good habits and conventions in programming
3. Develop problem-solving skills in programming.

4. Skillfully use basic data structures in Java
5. Skillfully use basic control flows in Java (decision structures and loops)
6. Solve basic mathematical and logical problems in Java
7. Manipulate arrays and implement basic algorithms
8. Ability to troubleshoot/debug programs in Java
9. Be able to develop user friendly, well-structured and interactive GUI in Java

COURSE REQUIREMENTS

Assessments

Homework and Lab Assignments

- Homework will be assigned based on material from the lectures. These assignments are meant for you to become familiar with the course material.
- Labs are an integral part of this course and are intended to provide experience in the application of the design techniques discussed in the lectures.

In-Class Activities/Quizzes/Participation

- These grades will be based on in-class assignments or short quizzes, which may be given at any time during the class **without any prior notice**.

Exams

- There will be three exams. All the exams will be taken in the lecture classroom. Students will be asked to use their laptops to take the exam. The dates of the midterm exams will be posted on TCU Online and announced in class at least one week prior to the date of the exam. Please refer to the important date table above to see final exam date. 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
- Exam 2 is comprehensive, with an emphasis on the material covered after Exam 1. The final exam will be comprehensive (covering the full semester's materials).
- Rescheduling a final exam must be made one week prior to the last day of classes. Rescheduling of finals is permitted for 1) students with more than two finals in a 24-hour period rule and 2) students for whom a final examination conflicts with a major religious holiday or custom.

Grading Policy

Late Work

This class has no late assignment policy. Please ensure that you complete and submit all assignments on time. No late assignments will be accepted. If you encounter any extenuating circumstances and need an extension, please email me as soon as possible to discuss your situation.

Participation, Engagement & Attendance

Class attendance is regarded as both an obligation and a privilege. All students are expected to attend each class meeting. I might not take formal attendance every day. Please note that if you miss an in-class activity or quiz due to class absence, there will be no make-up opportunity.

A student who misses class is still responsible for finding out what was discussed, learning the material covered, and obtaining the homework 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.

Because it is considered an infringement on student privacy for me to have access to student medical records, I cannot accept medical documentation to justify absences. If you have a legitimate reason for your absence and want to provide verification, please access the Absence Documentation Form [here](#).

Course Assignments and Final Grade

Assignments	Percentage
In-Class Activities/Quizzes/Participation	5%
Labs	20%
Homework	30%
Exams	45%
Total	100

Grading Scale

Grade	Score
A	94–100
A-	90–93.99
B+	87–89.99
B	84–86.99
B-	80–83.99
C+	77–79.99
C	74–76.99
C-	70–73.99
D+	67–69.99
D	64–66.99
D-	60–63.99
F	0–59.99

The final course grades will **NOT** be curved with no exceptions. Please also be aware that extra credits/work will **NOT** be given with no exceptions.

Course Policies

Academic Integrity

Academic integrity is central to the mission of educational excellence at TCU. Each student is expected to turn in work completed independently, except when assignments specifically authorize collaborative effort. It is not acceptable to use the words or ideas of another person--be it a world-class philosopher or your lab partner--without proper acknowledgment of that source. This means that you must use footnotes and quotation marks to indicate the source of any code snippet, phrases, sentences, paragraphs, or ideas found in published volumes, on the internet, or created by another student. Anything generated by AI tools like ChatGPT, Google Bard, Bing, etc. if used for class work, must be clearly mentioned. I have a zero-tolerance policy for cheating, and all violations will result in substantial penalties. Any form of academic dishonesty may be penalized with a failing grade ("F") in the class. Additionally, any violations of the Code may be referred to the Office of Academic Innovation and Effectiveness for further disciplinary action. If you have any doubts or questions about what constitutes academic misconduct, please do not hesitate to contact me. For further clarification of

university policies regarding academic integrity, please read [Academic Conduct & Course Materials Policies](#).

Technology Policy

Artificial Intelligence (AI) Ethical Considerations and Consequences for Misuse

The inappropriate or unauthorized use of AI-generated content may be academic misconduct and/or a violation of discipline-specific professional ethics. Such misuse of AI or other assignment-help tools will be handled according to TCU's Academic Conduct Policy or other relevant policies and may result in sanctions, including failing the course, program dismissal, suspension, or expulsion.

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COURSE SCHEDULE (TENTATIVE)

This calendar represents current course plans. This plan may be modified as the course progresses, should the instructor deem it necessary, and any changes will be communicated via class/course announcements.

Week	Chapter/Assignments
Week 1	Chapter 1: Introduction Lab 0
Week 2	Chapter 2: Java Fundamentals Homework 1 Lab 1
Week 3	Chapter 2: Java Fundamentals (Continued) Lab 2
Week 4	Chapter 3: Decision Structures Lab 3 Homework 2

Week 5	Chapter 3: Decision Structures (Continued) Lab 4
Week 6	Chapter 4: Loops Exam 1
Week 7	Chapter 4: Loops (Continued) Homework 3 Lab 5
Week 8	Chapter 4: Loops (Continued) Lab 6
Week 9	Chapter 5, 11: Methods, File I/O, Exceptions Lab 7 Homework 4
Week 10	Chapter 6: Classes Lab 8
Week 11	Chapter 6: Classes (Continued) Exam 2
Week 12	Chapter 7: Arrays and the ArrayList Class Homework 5 Lab 9
Week 13	Chapter 8, 10: Classes, Objects, and Inheritance
Week 14	Chapter 23, 24: GUI Programming Homework 6 Lab 10
Week 15	Break
Week 16	Chapter 23, 24: GUI Programming (Continued) and Review
Week 17	Final Exam