KENNESAW STATE UNIVERSITY

SYLLABUS
COLLEGE OF COMPUTING AND SOFTWARE ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE
CS 5000/W01: FOUNDATIONS OF PROGRAMMING
Summer 2025

Course Information

Class meeting time: Online
Modality and Location: Online
Syllabus is posted in D2L

Instructor Information

Name: Dr. Hisham Haddad
Email: hhaddad@kennesaw.edu
Office Location: 337
Office phone: 470-578-4389
Office Hours: MW 2:00pm – 3:45pm and by appointment
Preferred method of communication: email

Course Description

CS 5000: Foundations of Programming

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The course covers foundations of programming with emphasis on program design and computer science concepts. A modern, Object-Oriented language is used. Topics include primitive data types, arithmetic and logical operators, selection and repetition structures, methods, arrays, objects and classes, inheritance, polymorphism, exception handling, and file I/O. Programming projects are included.

This course uses Java as the implementation language. Students may use any IDE.

Course Materials

Textbook:
There is **no required textbook** for this course. The recommended textbook is listed below. Any "Introduction to Java" textbook should be sufficient for this course. Lecture notes and other course materials come from the recommended textbook.

Recommended textbook:
Introduction to Java Programming, Comprehensive Version, 10th Edition (or 11th Edition). By Y. Daniel Liang; Pearson Publishing, 2015. ISBN#: 978-0-13-376131-3

Teaching Assistant: Graduate Teaching Assistants (GTAs) are available to help student in this course, please see module “0. GTAs Office Hours” posted in D2L.

Technology requirements: Java compiler and any IDE.

Course Learning Outcomes

After successful completion of this course, a student will be able to:

LO 1: Demonstrate skills in the use of core programming concepts such as data types, arithmetic expressions, control structures, logical expressions, selection, and repetition
LO 2: Design and implement object-oriented concepts including class definition, inheritance, and polymorphism
LO 3: Solve programming problems using common data structures such as Arrays and Array Lists
LO 4: Demonstrate an understanding of file I/O and exception handling techniques
LO 5: Demonstrate an understanding of recursive functions

Course Requirements and Assignments

Programming assignments, midterm exam, and final exam are required for this course. Assignments and exams information are posted in D2L. Exams dates are given in the course weekly outline table. Assignments and exams are given numerical scores. Letter grades will be determined by totaling earned points on all course activities. Point allocation is as follows:

Activity	percentage
Homework Assignments	50%
Midterm Exam	25%
Final Exam	25%

Special Dates:	
First Day of Classes	Wednesday 5/28/2025
University Holiday - No Class	Thursday 6/19/2025
University Holiday - No Class	Friday 7/4/2025
Last Day to Withdraw Class (W grade)	Wednesday 7/8/2025
Last Day of Class	Tuesday 7/22/2025
Final Exams	Wednesday 7/23 and Thursday 7/24/2025
Final Grades Due by Noon on	Monday 7/28/2025

Evaluation and Grading Policies

Each assignment is worth 50 points. Feedback will be posted in D2L. Assignment grading issues have to be resolved within **4 days** from the date the assignment grade is published in D2L. No change to grades after 10 days. The grading scall is as follows:

Grades Scale	
A	90% - 100%
B	80% - 89%
C	70% - 79%
D	60% - 69%
F	59% or below

Note: Being a programming-intensive course, the programming assignments are worth 50% of the final grade. You are encouraged to work the assignments problems, understand the problems, and understand the logic of their solutions to be prepared for the exams.

Course Policies

Electronic Communications: The instructor may not reply to e-mails that are sent from KSU student email accounts and list the course number in the subject line of the e-mail (CS5000 - Section #). E-mails with other subject lines or from an account rather than KSU student account may not reach the instructor's mailbox. You are required to check your KSU email account daily. Emails from D2L are automatically forwarded to the instructor's email. The estimated response time is 48 hours.

Attendance: Being an online course, daily login to D2L is required to stay informed of course activities and discussion groups postings. Students are expected to login to the course every day and check posting and emails.

Assignment Grading: Successfully completed programs must satisfy their requirements outlined in the programming assignments. The assignment grade depends on the quality of the program. All assignments are individual work. Discussion of assignments with others is subject to the empty hands policy, which means that you leave the discussion without any record (electronic or physical) of the discussion. Submissions that show copying or paraphrasing or identical code or slightly modified code from another source will be considered plagiarism and are a violation of the Student Code of Conduct. For all homework assignments, if a student consults any resource (other than the textbook and class notes) including another individual, this consultation must be documented on the submission. This documentation must include what (or who) was consulted and what information was obtained.

Assignment Submission: Copying or paraphrasing codes from other sources or other students will be considered a violation of the Student Code of Conduct. Due dates for homework assignments will be specified on the assignments themselves and in D2L. All assignments are submitted to D2L. Late submission will not be accepted.

Tests: Exam 1 and Exam 2 are planned for this course as shown in the weekly schedule above. Please plan accordingly as there are NO makeup exams. The exam will be proctored in D2L using a lock-down browser and a webcam. This feature of D2L records the exam session and saves it for verification. Picture ID and Environment Check are required at the beginning of the exam session. Please see course weekly outline for exams dates.

Course Withdrawal: The last day to withdraw without academic penalty is Wednesday 7/8/2025. Ceasing to attend class or oral notice thereof DOES NOT constitute official withdrawal from the course. Students who simply stop attending classes without officially withdrawing usually are assigned failing grades. Students wishing to withdraw after the scheduled change period (add/drop) must obtain and complete a withdrawal form from the Academic Services Department in the Registrar's Office.

Tutoring: The College of Computing and Software Engineering offers some tutoring services for certain courses. Tutoring information is posted in D2L. It is important you take a advantage of this resource dedicated for this class. General tutoring info can be found at: http://ccse.kennesaw.edu/ccselabs/ccse-tutoring.php.

Instructional Continuity: Kennesaw State University (KSU) may decide to close campuses, operate on a delayed schedule, or transition to remote instruction for inclement weather or in case of emergency.
The University will announce campus closures, delayed schedules, or remote instruction through KSU Alerts sent to your cell number on file and to your university email account. In addition, announcements will be posted on KSU's home page: www.kennesaw.edu. We understand that emergencies create unique challenges. If you need additional support during an emergency, reach out via D2L or email. The university also offers resources such as counseling and academic support, which can be accessed remotely.

Usage of Artificial Intelligence: Use of AI is prohibited for this course. You are expected to generate your own work in this class. When you submit any kind of work, you are asserting that you have created it completely on your own unless you indicate otherwise using quotation marks and proper citation for the source(s) you used to help you. Submitting content that has been generated by someone other than you, or that was created or assisted by an AI generative tool is cheating and constitutes a violation of the KSU Code of Academic Integrity.

Academic Integrity:
Every KSU student is responsible for upholding all provisions of the Student Code of Conduct. Please see KSU student code of conduct document below.

ksu-student-code-of-conduct-10-24.pdf

Department and College Policies

Students are expected to be aware that the Computer Science department has certain policies in place that govern practices within the department including:

1. "B" or better grade is required for CS 1321/L and CSE 1322/L and their equivalent transfers. All courses used toward any undergraduate degree in computer science must be completed with an assessed performance grade of "C" or better. This means that all prerequisite courses from the CS Department must have been completed with a "C" or better for a student to enter the next course in a sequence.

2. All requests for course overloads must be made through the College advising office and with the approval of the Program coordinator and department chair. The instructor of any course is not permitted to authorize course overloads.

3. All requests for prerequisite bypasses must be made through the College advising office and with the approval of the Program coordinator and department chair. The instructor of any course is not permitted to authorize course overwrites.

4. All students are encouraged to register their current choice of major using the department major change process. Students who are not recorded under their intended major may find that they may be limited from registering for courses they require to complete their intended program of study.

Institutional Syllabus Policies, Procedures, and Resources

Please visit the following link for Institutional policies (Federal, BOR, and KSU required syllabus policies and student resources):

https://www.kennesaw.edu/curriculum-instruction-assessment/academic-program-planning-development/resources/student-syllabus-resources.php

Course Topics and Outline: Subject to change

Week #	Weekdays Mon - Sun	Chapter/Topic
1	5/28 – 6/01/25	Chapter 1 – Introduction to Computers, Programs, and Java Chapter 2 – Elementary Programming
2	6/02 – 6/08/25	Chapter 3 – Selections Chapter 4 – Mathematical Functions, Characters, and Strings
3	6/09 – 6/15/25	Chapter 5 – Loops Chapter 6 – Methods

4	6/16 – 6/22/25	Midterm Exam: Friday 6/20/2025, 6:30 PM - 8:30 PM, in D2L. The exam covers all materials we covered from Chapter 1 to Chapter 6. That is, Java basics, selections, loops, and methods. Chapter 7 – 1D Arrays Chapter 8 – 2D Arrays
5	6/23 – 6/29/25	Chapter 9 – Objects and Classes Chapter10 – Object-Oriented Thinking
6	7/30 – 7/06/25	Chapter 11 – Inheritance and Polymorphism
7	7/07 – 7/13/25	Chapter 18 – Recursion
8	7/14 – 7/20/25	Chapter 12 – Exception Handling and Text I/O
9	7/21 – 7/23/25	Last Class: Tuesday 7/22/2025 Final Exam: Thursday 7/24/2025, 6:30 PM - 8:30 PM in D2L

Disclaimer

The course syllabus provides a general plan for the course. Deviations may be necessary.