# Old Dominion University

# **College of Sciences**

# **Department of Computer Science**

## **CS 151: INTROUCTION TO PROGRAMMING WITH JAVA**

Syllabus - Fall 2025

Dr. Soad Ibrahim

## Instructor Information

Name: Dr. Soad Ibrahim Office: Dragas 1100A

Office Hours: I plan to use Zoom for my office hours every week. Please use the following link to book a

meeting with me "Book an Appointment"

Also, you can contact me at sfibrahi@odu.edu to set a meeting in a different day/time.

Email: sfibrahi@odu.edu

## **Contact Policy:**

Please make sure to include your name and CS 151 in the subject line of your email. If your question concerns lab/recitation, you should contact your lab/recitation TA first, (be sure to include your lab/recitation time and the CRN).

# **Delivery mode**

In person

## **Catalog Course Description:**

# CS 151. Introduction to Programming with Java. 4 Credits.

Laboratory work required. Introduction to computer-based problem solving and programming in Java. Topics include problem solving methodologies, program design, algorithm development, and testing. Java language concepts including variables, data types and expressions, assignment, control-flow statements, I/O, exception handling, functions, arrays, and classes. Prerequisite: MATH 162M

## **Required Textbook:**

The required EBook will be accessed through Canvas.

Revel for Introduction to Java Programming and Data Structures, 13 Edition, 2021

Format: EBook

Author(s): Y. Daniel Liang

Publisher: Pearson

ISBN-13: 9780135945476 ISBN-10: 013594547X

# **Course Learning Objectives**

This course will provide an introduction to programming with Java. At the conclusion of this course the student should be able to:

• Apply various problem-solving techniques to develop algorithms.

- Use a computer to input, compile, run, and debug a Java program.
- Design documented programs using the basic elements of Java.
- Analyze and evaluate the performance of algorithms.
- Use simple data types.
- Employ manipulators in a program to format the output.
- Use input and output files.
- Create and examine selection control structures using if...else and switch statements.
- Create repetition control structures.
- Design nested control structures.
- Construct and employ value-returning and void methods.
- Construct and use arrays.
- Define classes and create objects.
- Utilize classes with private and public members.
- Write a try-catch block to handle exceptions.
- Read data from a file and output data to a file.

## **Tentative Course Outline Fall 2025**

**NOTE THAT** this is a tentative schedule, and subject to change at the discretion of the instructor, who reserves the right to modify, supplement and make changes as course needs arise.

- Exams times will be announced in the lecture and on CANVAS.
- Due dates for the quizzes, labs, programming exercises, and programming assignments will be on CANVAS.

Date	Tasks/ Reading				
August 23 – August 31	Lab 1	Quiz 1			Chapter 1
September 1 – September 7	Lab 2	Quiz 2	Programing exercise 1	Assignment 1	Chapter 2
September 8 – September 14	Lab 3	Quiz 3	Programing exercise 2	Assignment 2	Chapter 3
September 15 – September 21	Lab 4	Quiz 4	Programing exercise 3	Assignment 3	Chapter 5
September 22 – September 28	Lab 5	Quiz 5	Programing exercise 4	Assignment 4	Chapter 5
September 23 – October 5	Lab 6	Quiz 6	Programing exercise 5	Assignment 5	Chapter 6
October 15	Programming Test 1				
October 16	Midterm Exam				
October 6 – October 19	Lab 7	Quiz 7	Programing exercise 6	Assignment 6	Chapter 7
October 20 – October 26	Lab 8	Quiz 8	Programing exercise 7	Assignment 7	Chapter 8
October 27 – November 2	Lab 9	Quiz 9	Programing exercise 8	Assignment 8	Chapter 9
November 5	Programming Test 2				
November 3 – November 16	Lab 10	Quiz 10	Programing exercise 9	Assignment 9	Chapter 10
November 17 – November 23	Lab 11	Quiz 11	Programing exercise 10	Assignment 10	Chapter 12
December 3	Programming Test 3				
November 24 – December 3	Lab Review				
December 9	Final Exam				

#### **CANVAS**

You should check CANVAS for announcements concerning course assignments. Grades will be posted on CANVAS. It is the student's responsibility to inform the instructor of misreported grades within **three days** after they are posted on CANVAS.

#### **Grades**

Each of the following components will contribute the indicated percentage to your overall grade.

Total	100%
In Class Activities	10%
Programming Assignments	10%
Programming Exercises	10%
Weekly Labs	10%
Quizzes	10%
Programming Tests	30%
Final Exam	10%
Midterm Exam	10%

## **Letter Grade:**

Percent Scored G	Grade
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93 - 100	Α
90 - 92	A-
87 - 89	B+
83 - 86	В
80 - 82	B-
77 - 79	C+
73 - 76	С
70 - 72	C-
67 - 69	D+
63 - 66	D
60 - 62	D-
0 - 59	F

# Midterm Exam and Final Exam:

Midterm exam and Final exam will be closed book, closed notes. The Final exam time will be based on the university final exam schedule. **There are no 'make-ups' for the exams.** 

# **Programming Tests:**

There will be comprehensive programming tests. Details on the programming tests will be available as the course progresses. There are no 'make-ups' for the programming tests.

#### Quizzes:

Quizzes will be delivered in various formats throughout the semester. Quiz posting, availability, and due dates will usually be announced in lecture and on CANVAS. Online quizzes will be made available on CANVAS and expire and become unavailable on the posted due date. **There are no 'make-ups' for quizzes.** 

## **Programming Assignments:**

Programming Assignments will be completed individually. Do not collaborate on the programming assignments or discuss them with anyone other than the course instructor and TAs. Delivery details for assignments will be provided at the time of the first assignment. Assignments will be delivered electronically to CANVAS. Late submission will not be permitted. It is the student's responsibility to make sure that he/she submitted the correct file/files to CANVAS. It is the student's responsibility to make sure that the code submitted will compile and execute on the systems in Dragas.

# Weekly Labs:

Lab attendance is mandatory. Weekly Labs should be completed in the Lab class and submitted on CANVAS before the due date. The following information needs to be included at the top of the source (and also in the output if instructions indicate so).

Name of the source file: \*\*\*\*\*\*.java Student name

Student ID

Date:

Variations on this information will be stipulated in lab when necessary. Students should save a read only version of any source code at the time it is handed in. Keep this back up copy until the graded work is returned. **No late submissions will be accepted for weekly lab assignments. There are no 'make-ups' for the labs.** 

## **Programming Exercises:**

Recitation attendance is mandatory. Programming exercises will be completed individually and submitted on CANVAS. Late submission will not be permitted. It is the student's responsibility to make sure that he/she submitted the correct file/files to CANVAS. There are no 'make-ups' for the recitations.

#### In Class Activities:

Class-time will feature a mix of traditional lecturing and class participation. There will be questions to be answered during the lectures. These questions are designed to get you thinking about the course topics. Students will use PointSolutions App to answer the questions during the lecture. Results are instantly charted and displayed for real-time student feedback. Responses to questions in class MUST be submitted via the PointSolutions App; paper responses will not be accepted. You should attend the lecture and answer the questions using your phone.

You are responsible for coming to class with a functioning cell phone and correctly buy the Subscription. If you need help, please contact the Information Technology Services (http://www.odu.edu/its).

Learn more about registering TurningPoint through CANVAS in the following website:

https://support.echo360.com/hc/en-us/sections/17523764667149-Participant

# **Attendance/Classroom decorum:**

You should arrive on time; habitual tardiness is disruptive. Students are expected to pay attention, take notes, and ask/answer relevant questions during the lab and recitation period. The use of computer laptops is permitted for taking CS 151 course notes only. Do not use social media sites, or other applications during class – this is considered to be rude and inconsiderate behavior towards the instructor and fellow students.

# Makeup policy:

Quizzes, programming assignments, programming exercises, weekly labs, midterm exam, lab midterm exam, final exam and lab final exam cannot be made up under any circumstances. No late submissions will be accepted under any circumstances.

You may not make up exams without **prior arrangements**, a written medical excuse, or a documented emergency. Such arrangements **must** be made with the **Student Ombudsperson Services Office**. Please follow the university rules at the following links:

https://www.odu.edu/dean-students/student-outreach-support

# **Topics covered:**

# List topics covered.

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	Topics
1.	Course overview; problem solving
2.	Data types, arithmetic expressions, Program style
3.	Input, output
4.	Selection control structures
5.	Loops
6.	Methods
7.	Single-Dimensional Arrays
8.	Multidimensional Arrays
9.	Objects and Classes
10.	Exception Handling
11.	File input/output

# **University Policies:**

#### **Academic Integrity:**

Old Dominion University is committed to students' personal and academic success. In order to achieve this vision, students, faculty, and staff work together to create an environment that provides the best opportunity for academic inquiry and learning. All students must be honest and forthright in their academic studies. Your work in this course and classroom behavior must align with the expectations outlined in the Code of Student Conduct, which can be found at www.odu.edu/oscai. The following behaviors along with classroom disruptions violate this policy, corrupt the educational process, and will not be tolerated.

Cheating: Using unauthorized assistance, materials, study aids, or other information in any academic exercise.

**Plagiarism**: Using someone else's language, ideas, or other original material without acknowledging its source in any academic exercise.

Fabrication: Inventing, altering or falsifying any data, citation or information in any academic exercise.

**Facilitation**: Helping another student commit, or attempt to commit, any Academic Integrity violation, or failure to report suspected Academic Integrity violations to a faculty member.

Academic dishonesty will be reported to the Office of Student Conduct & Academic Integrity and may result in sanctions up to and including expulsion from the University.

By attending Old Dominion University, you have accepted the responsibility to abide by the honor code. If you are uncertain about how the honor code applies to any course activity, you should request clarification from the instructor. The honor code is as follows: "I pledge to support the honor system of Old Dominion University. I will refrain from any form of academic dishonesty or deception, such as cheating or plagiarism. I am aware that as a member if the academic community, it is my responsibility to turn in all suspected violators of the honor system. I will report to Honor Council hearings if summoned."

Any evidence of academic dishonesty will result in a 0 grade for the assignment/exam, and the incident will be submitted to the department for further review. Evidence of academic dishonesty may include a student being unable to satisfactorily answer questions asked by the instructor about a submitted solution. For class files kept in UNIX space, students are expected to use UNIX file permission protections (chmod) to keep other students from accessing the files. Failure to adequately protect files may result in a student being held responsible for giving unauthorized assistance, even if not directly aware of it.

Students may still provide legitimate assistance to one another. You are encouraged to form study groups to discuss course topics. Students should avoid discussions of solutions to ongoing assignments and should not, under any circumstances, show or share code solutions for an ongoing assignment.

Please see the ODU Honor Council's webpage for other concrete examples of what constitutes cheating, plagiarism, and unauthorized collaboration. *All students are responsible for knowing the rules.* If you are unclear about whether a certain activity is allowed or not, please contact the instructor.

You can read more the code of student conduct at the following website:

https://www.odu.edu/oscai

#### **Important Notes:**

- a) Use of ChatGPT and similar such tools is strictly prohibited.
- b) Use of ChatGPT and such tools may be used to get some ideas, but the work submitted must be students' own.
- c) Use of ChatGPT and such tools is permitted, but students must properly cite the sources of that, and any other code found on the Internet, according to the guidelines provided below. [followed by examples of using comments in code to cite sources of both quoted and paraphrased sections].

## **Special needs:**

Old Dominion University is committed to ensuring equal access to all qualified students with disabilities in accordance with the Americans with Disabilities Act. **The Office of Educational Accessibility (OEA)** is the campus office that works with students who have disabilities to provide and/or arrange reasonable accommodations.

The Office of Educational Accessibility is located at 1021 Student Success Center and their phone number is (757)683-4655. Additional information is available at the OEA

website: http://www.odu.edu/educationalaccessibility/

- If you experience a disability which will impact your ability to access any aspect of my class, please present me with an accommodation letter from OEA so that we can work together to ensure that appropriate accommodations are available to you.
- If you feel that you will experience barriers to your ability to learn and/or testing in my class but do not have an accommodation letter, please consider scheduling an appointment with OEA to determine if academic accommodations are necessary.

Students are encouraged to self-disclose disabilities that have been verified by the Office of Educational Accessibility by providing Accommodation Letters to their instructors early in the semester in order to start receiving accommodations. Accommodations will not be made until the Accommodation Letters are provided to instructors each semester.

## **ODU's Office of Counseling Services**

ODU's Office of Counseling Services (OCS, 1526 Webb University Center) is a university agency with competent, diverse, and multidisciplinary professional staff. We are committed to supporting the emotional well-being, social development, and academic progress of all students at Old Dominion University.

College life can be a wonderful time of self-discovery, but for many, it is also a time when the awareness of mental health conditions increases. OCS services are available to assist with addressing mental health concerns that a student may be experiencing. You can learn more about the broad range of confidential mental health services available on campus via our website at: http://www.odu.edu/counselingservices. All services are free to ODU students.

#### **NOTICE/disclaimer:**

This syllabus is intended to give the student guidance in what may be covered during the semester and will be followed as closely as possible. These plans may change depending on factors outside of the faculty member's control. The instructor reserves the right to modify, supplement and make changes as course needs arise.