

# **Programming with Java**

## **Boston University**

**MET CS232-SA1, Summer 2023**

Days: Tuesdays/Thursdays, 6:00-9:30 PM ET

Location: Charles River Campus, Boston

Instructor: Mike Hadavi

E-mail: [hadavi@bu.edu](mailto:hadavi@bu.edu)

Office Hours: After class

Website: <http://onlinecampus.bu.edu>

### **COURSE DESCRIPTION**

This course covers the elements of object-oriented programming and the Java Programming Language. Primitive data types, control structures, methods, classes, arrays and strings, inheritance and polymorphism, interfaces, creating user interfaces, exceptions, and streams. Laboratory course.

### **PREREQUISITE**

MET CS201 or instructor's consent or programming experience in a high-level language other than Java.

### **TEXT**

JAVA, An Introduction to PROBLEM SOLVING AND PROGRAMMING,  
(Eight Edition, 2018), by Walter Savitch, published by Pearson, ISBN-13: 978-0-13-446203-5.

### **GRADING**

Programming assignments	45%
Homework assignments	10%
Exam	45%

### **PROGRAM EVALUATION CRITERIA**

Program correctness	50%
Documentation	20%
Readability	20%
Etc.	10%

### **Murphy's Law of Programming**

*"The sooner you start coding your program, the longer it is going to take."*

*continued...*

**SCHEDULE (very tentative)**

DATE	TOPIC	READING (TEXT CHAPTER)
Tue, 05/23	Introduction, number systems	1
Thu, 05/25	Basic Computation	2
Tue, 05/30	Flow of Control	3, 4
Thu, 06/01	Defining Classes, Objects, and Methods	5, 6
Tue, 06/06	Arrays	7
Thu, 06/08	Inheritance, Polymorphism, and Interfaces	8
Tue, 06/13	Exception Handling	9
Thu, 06/15	Streams and File I/O	10
Tue, 06/20	Dynamic Data Structures, Generics, Lambdas	12
Thu, 06/22	GUI, Swing	13, 15
Tue, 06/27	Review	
Thu, 06/29	Exam	

**IMPORTANT NOTES**

- Reading the relevant material in the textbook is essential for gaining a thorough understanding of the topics covered in the course.
- Not all of the material in each chapter will be covered during lecture/discussion, but the material should be read in any case.
- Your programs must be done in Java. One point will be deducted from the grade for each class a programming assignment is late after a one-class grace period.
- Be sure to see [bu.edu/summer](http://bu.edu/summer) and [bu.edu/summer/summer-sessions/calendar](http://bu.edu/summer/summer-sessions/calendar). You will find lots of useful information, important dates, etc.

**ACADEMIC HONESTY**

The course is governed by the Academic Conduct Committee policies regarding plagiarism (any attempt to represent the work of another person as one's own). This includes copying (even with modifications) of a program or a segment of code. You can discuss general ideas with other people, but the work you submit must be your own. Collaboration is not permitted.

**ELECTRONIC MAIL**

To be sure you *can* communicate with the instructor electronically and to add your name to the class distribution list, please send a test message with the subject line *CS232 TEST*, and your name in the body of the message to the instructor's email address.