

# Programming with Java, Boston University

## **MET CS 232 SB1, Summer 2014**

Day: Tuesday and Thursday, 6:00-9:30 PM

Location: Boston Campus, Building: SMG, Room: 315

Instructor: Mike Tizio

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

Office Hours: Before class (Tuesday and Thursday 5:00 PM to 6:00 PM)

BU Blackboard: <https://learn.bu.edu/webapps/portal/frameset.jsp>

## **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, applets, exceptions and streams. Laboratory course. 4 cr.

## **PREREQUISITE**

Programming experience in a high-level language other than Java.

## **LEARNING OBJECTIVES**

- To understand the essential concepts in computer science
- To be introduced to object oriented programming
- To learn the Java programming language

## **TEXT**

**Required:** Java: Introduction to Problem Solving and Programming, 6/E, by Walter Savitch, copyright 2012, published by Prentice-Hall, ISBN 9780132162708.

## **GRADING**

Programming assignments/Homework	40%
Class Participation and Attendance	10%
Midterm	25%
Final	25%

## **PROGRAM EVALUATION CRITERIA**

Program correctness	60%
Documentation	20%
Readability	20%

## SCHEDULE

DATE	TOPIC	READING (TEXT CHAPTER)
07/01	Introduction, Overview/UML/Pre and Post Conditions	1
07/03*	Primitive Types, Strings, Interactive I/O	2
07/08	Flow of Control	3, 4
07/10*	Defining Classes and Methods, Objects and Methods	5, 6
07/15	Arrays	7
07/17*	Arrays/Array Lists/Review (Midterm Q & A)	7, 12.1
07/22	Midterm Exam	
07/24*	Inheritance/Exception Handling (midterm/homework review)	8, 9
07/29	Streams and File I/O	10
07/31*	Other Topics(Dynamic Data Structures)/Object Oriented design	12
08/05	Window Interfaces - Swing Objects/Applets/Android (homework review and Final Q & A)	6.8, 8.5, 7.6, 1.4, 3.4, 4.3, 5.4, 6.8, 8.5, 9.4
08/07*	Final Exam	

## IMPORTANT NOTES

- Assignments will not be accepted past their due date.
- 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. All programming assignments must include the source code, pseudo code (program outline) including test plan, as well as the UML class diagrams. Programming assignments will not be accepted later than the end of the class the day it is due. Students will not receive credit for late homework.
- Be sure to get a copy of "2014 Summer Schedule". It contains lots of useful data such as radio stations announcing class cancellations, important dates, etc.  
(<http://www.bu.edu/reg/dates/>)
- Inclement weather: BU will announce University closures via the BU website [www.bu.edu](http://www.bu.edu). As a last resort for information, call the University operators at (617) 353-2000.
- Programming web site help: <http://www.myprogramminglab.com/>

## 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 email to the class distribution list, please send a test message with the subject line *CS232-SB1 TEST* to the instructor's email address – include your name in the body of the message.

## HOW TO APPLY FOR A BU ACS ACCOUNT

You need an ACS account to access the course's website. If you do not have an ACS account, you can apply for one by following the directions at this site:

<http://www.bu.edu/computing/accounts/acsaccounts/>