

Overview and Description:

This laboratory course teaches the fundamentals of computer programming using the Java programming language. Topics include: syntax, data types, control structures, functions/methods, object-oriented programming, Java collections, file input/output, and JDBC.

Instructor, Contact Email, Office Hours and Site:

Instructor

Andrew Sheehan

E-mail

[asheehan@bu](mailto:asheehan@bu.edu)

Office hours

Usually before and after our class.

Official BU Calendar

[Official Academic Calendar for 2013-2014](#)

CS232 relies on Blackboard, learn.bu.edu. You need to have an account to have access to our course. Please attempt to login as soon as you can and verify that it works.

Topic Coverage

1. Variables, Expressions, Operators and Data Types
2. Control Structures
3. Objects and Classes
4. File I/O
5. Java's Collections
6. Exception Handling
7. JDBC (with MySQL)

Course Books

1. [Savich] *"Java: An Introduction to Problem Solving and Programming, 6e"*
2. [Anderson] *"Java Illuminated, 4e"*

ISBN: 9781284087857

eISBN: 9781284087857.0

print-ISBN: 9781284057829

eBook: <http://store.vitalsource.com/show/9781284087857>

eBook reader: <https://support.vitalsource.com/hc/en-us/articles/201344733>

Integrated Development Environment ("IDE")

Students can use any IDE they choose; such as Eclipse, JDeveloper, Netbeans or IntelliJ.

Download the appropriate version (32/64 bit) of "Eclipse IDE for Java Developers".

IntelliJ can be found at <http://www.jetbrains.com>

Eclipse can be found at <http://www.eclipse.org/downloads/>

Lateness Policies

- Homework must be submitted electronically, via Blackboard.
- There will be a 10% deduction for homework that is up to 24 hours late.
- There will be a 20% deduction for homework that is 24-48 hours late.
- We will not accept any homework that is more than 48 hours late.
- Extensions and makeup quizzes/exams will only be given in **documented cases of serious illness or emergency**.
- You cannot redo your submitted work.
- Incomplete's will not be given.

Grading Policies

Homework

Homework assignments will be given throughout the semester. 30% of your grade.

Quizzes

Quizzes are given throughout the semester. **They cannot be made up.** 20% of your grade.

Mid-semester Examination

25% of your grade.

Comprehensive (Final) Examination

25% of your grade.

Academic Honesty

The course is governed by the Boston University Academic Conduct, Metropolitan College.

You need to be aware of its contents: www.bu.edu/met/for-students/met-policies-procedures-resources/academic-conduct-code

Course Schedule (Section B2: Tuesday)

Schedule of Events* (Subject to change)

Week	Dates	Topics	Readings	Homework
Week 1	January 20, 2015	Algorithms. Pseudocode. Design before Development. Modeling/UML.	[Savich] Chapter: 1 [Anderson] Chapter: 1	
Week 2	January 27, 2015	Quiz #1 Winter Storm: BU was closed.		
Week 3	February 3, 2015	Primitives and expressions. Strings. Scanner/console Conditional statements (if/else). Enumerations.	[Savich] Chapter: 2, 3 [Anderson] Chapter: 2, 5	
Week 4	February 10, 2015	Iterative statements.	[Savich] Chapter: 4 [Anderson] Chapter: 6	Homework #1 Due
Week 5	February 17, 2015	[No Class] Substitute Monday Schedule of Classes for President's Day		
Week 6	February 24, 2015	Classes and Objects: Encapsulation.	[Savich] Chapter 5 [Anderson] Chapter: 3	Homework #2 Due
Week 7	March 3, 2015	Quiz #2 Classes and Objects: Statics. Overloading. Overriding.	[Savich] Chapter 6 [Anderson] Chapter: 7	
Week 8	March 10, 2015	[No Class] Spring Recess		
Week 9	March 17, 2015	Midterm Examination		
Week 10	March 24, 2015	Interfaces	[Savich] Chapter 8 [Anderson] Chapter: 10	
Week 11	March 31, 2015	Quiz #3 Arrays	[Savich] Chapter 7 [Anderson] Chapter: 8,9	Homework #3 Due
Week 12	April 7, 2015	File Input/Output	[Savich] Chapter 10 [Anderson] Chapter: 11	Homework #4 Due
Week 13	April 14, 2015	Quiz #4 Exceptions, JDBC	[Savich] Chapters 9 [Anderson] Chapters: 11	
Week 14	April 21, 2015	Recursion	[Savich] Chapter 11 [Anderson] Chapter 13	Homework #5 Due
Week 15	April 28, 2015	Dynamic Data Structures	[Savich] Chapter 12 [Anderson] Chapters: 14	
Week 16	May 5, 2015	Comprehensive Examination		