

Spring 2020

CS 602-102: Java Programming

Raihan Siddique

Follow this and additional works at: <https://digitalcommons.njit.edu/cs-syllabi>

Recommended Citation

Siddique, Raihan, "CS 602-102: Java Programming" (2020). *Computer Science Syllabi*. 94.
<https://digitalcommons.njit.edu/cs-syllabi/94>

This Syllabus is brought to you for free and open access by the NJIT Syllabi at Digital Commons @ NJIT. It has been accepted for inclusion in Computer Science Syllabi by an authorized administrator of Digital Commons @ NJIT. For more information, please contact digitalcommons@njit.edu.

CS 602 – Java Programming

Syllabus

Credits: 3

Course Description: Advanced Web-based programming with an emphasis on the Java language and platform. No prior knowledge of Java is required but students are expected to have a good understanding of object-oriented programming concepts such as encapsulation, inheritance, and polymorphism, experience with C++.

The course lays a foundations of basic constructs and syntax and then focuses on the core advanced features. Topics include: networking and sockets, remote method invocation (RMI), database connectivity (JDBC), Java Beans, multi-threading and lightweight components (Swing) with Abstract Window Toolkit (AWT).

Text books:

Object Oriented Software Development Using Java (2nd Edition) by Xiaoping Jia
Addison Wesley; 2nd edition (November 1, 2002)
ISBN-10: 0201737337
ISBN-13: 978-0201737332

Java Software Solutions (8th edition) by John Lewis and William Loftus
Pearson Education
ISBN-10: 0-13-359495-5
ISBN-13: 978-0-13-359495-9

Instructor: Raihan Siddique

E-mail: rs792@njit.edu

Course Topics:

Topic 1 Overview of Java, Comparison to C++

Topic 2 Basic Language Features: Primitives, Objects, Constructors, Variables, Methods, Classes, Access Specification

Topic 3 Basic Language Features Continued: Inheritance; Essential Java Classes

Topic 4 Operators; Sequence, Selection and Repetition; Exception Handling; Inner Classes

Topic 5 Interfaces; Event Handling; Layout Managers

Topic 6 Abstract Window Toolkit (AWT) Event Handling; Streams

Topic 7 Swing

Topic 8 Applets

Topic 9 Servlets

Topic 10 JSP

Topic 11 Java Database Connectivity (JDBC)

Topic 12 Cookies, Java Beans, ERM

Topic 13 Remote Method Invocation (RMI)

Topic 14 Multicasting

Weight distribution and Grades:

Midterm 30%

Final 30%

Assignments 40%

Grading will be done on weighted average basis according to the weight distribution shown above. The final letter grade will be determined based on this table below:

Rounded %	< 70	70 - 74	75 - 79	80 - 84	85 - 89	90 - 100
Grade Points	0	2.00	2.5	3.00	3.5	4
Letter Grade	F	C	C+	B	B+	A