Spring 2020

CS 602-102: Java Programming

Raihan Siddique

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

Recommended Citation

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).

Textbooks:

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

Java Software Solutions (8th edition) by John Lewis and William Loftus
Pearson Education

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:

<table>
<thead>
<tr>
<th>Rounded %</th>
<th>&lt; 70</th>
<th>70 - 74</th>
<th>75 - 79</th>
<th>80 - 84</th>
<th>85 - 89</th>
<th>90 - 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Points</td>
<td>0</td>
<td>2.00</td>
<td>2.5</td>
<td>3.00</td>
<td>3.5</td>
<td>4</td>
</tr>
<tr>
<td>Letter Grade</td>
<td>F</td>
<td>C</td>
<td>C+</td>
<td>B</td>
<td>B+</td>
<td>A</td>
</tr>
</tbody>
</table>