

This year, students in our course will be using the Java programming language for approximately half of our projects and homework assignments. While students will be expected to hand in their summer assignment in C, they should know enough Java to be able to do the summer assignment in Java if asked to do so.

We will not be using any specific Java text. However, for the novice, a good starting point is *Java 2 Weekend Crash Course*, by Sanchez and Canton. It presents a broad overview of the core language in 30-minute sessions. Some Java topics are beyond the scope of our course and may be skipped. The relevant sessions and corresponding topics are listed below:

- Session 5 - Identifiers and Data Types
- Session 6 - Arrays and Java I/O
- Session 7 - Java Operators
- Session 8 - Decision Constructs
- Session 9 - Iteration and Flow Controls
- Session 10 - Creating methods
- Session 11 - Object Oriented Java
- Session 12 - Programming with Classes
- Session 13 - Using Class Inheritance
- Session 14 - Using Object Composition
- Session 15 - Using Recursion
- Session 16 - Abstract Data Types
- Session 17 - The Linked List ADT
- Session 18 - Stacks, Queues, and Trees
- Session 19 - Errors and Exceptions
- Session 20 - Input and Output
- Session 21 - File Operations and I/O
- Session 22 - Reading and Writing Text
- Session 23 - Operations on Blocked Data

According to the book, the cumulative expected completion time for all of the above sessions is under 10 hours.

For the more experienced programmer, a good book on Java is *Java Practical Guide for Programmers*, by Sikora.

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