

# CS 1150

## Programming with Data Structures

Prerequisites: CS 1140

Instructor(s): David Gregg / Libero Ficocelli

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Texts: A First Book of JAVA by Gary J. Bronson (Required)

Java Structures by Duane Bailey (Required)

Evaluation:	Assignments	30%
	Lab Quizzes	10%
	Midterm Exam	25%
	Final Exam	35%

### Course Description:

The course provides a review of programming principles (specification, implementation and testing), and an extension of Object Oriented concepts from CS 1140 including data abstraction, modular program construction and program re-use. The emphasis is on dynamic data structures (strings, vectors, lists, stacks, queues, trees), and their associated algorithms (recursion, traversal, sorting, searching, hashing).

### Course Format:

This course is three lecture hours and three lab hours per week.

**To pass this course you must achieve an average of 50% on all Exams and Lab quizzes.**

**All of your lab work must be original. In other words, you may share conceptual ideas as to solving a programming problem, but you may not share or copy another student's code (please read page 38-42 of the calendar regarding student conduct). Any copied code will result in a zero being awarded to all parties involved.**