

## CS 1150

### Programming with Data Structures

Prerequisites: CS 1140

Instructor: David Gregg / Libero Ficocelli

Office: David: E309 539-2976      Libero: C424 539-2825  
gregg@gprc.ab.ca              libero@gprc.ab.ca

Texts: Java: An object oriented approach by Arnow and Weiss (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 (eg. lists, string, stacks, queues, tables), and their associated algorithms (eg. 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 37 of the calendar regarding student conduct). Any copied code will result in a zero being awarded to all parties involved.**