CS 1150 Programming with Data Structures 3(3-0-3) 90 hours UT—UofA, Athabasca, UofC, UofL

Prerequisites: CS 1140

Instructor: David Gregg C-427 539-2976 gregg@gprc.ab.ca

Office Hours: TBA and by prior arranged appointment

Texts: Data Structures and Algorithms in Java by Peter Drake Introduction to JAVA Programming. Daniel Liang (CS1140 Text)

Make good use of the on-line and library resources related to data structures also.

10%
25%
35%

Your final grade, calculated as a percentage, is converted to a letter grade as follows:

90 – 100	A+	
85 – 89	А	
80 – 84	A-	
76 – 79	B+	
73 – 75	В	
70 – 72	B-	
67 – 69	C+	
64 – 66	С	
60 – 63	C-	minimum acceptable grade for transfer to the UofA
55 – 59	D+	
50 – 54	D	minimal pass acceptable for GPRC
0 - 49	F	fail

BlackBoard: Your grades and other course information will be posted on BlackBoard: blackboard.gprc.ab.ca

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. When necessary, lab time will be utilized for lecturing on specific Java/algorithmic concepts and features. The remainder of lab time will generally be used as "hands-on" programming time.

Lab Materials: CD-R disks ,or memory stick (recommended) are required for the lab

Assignment Policy:

Assignments/Projects are to be handed in and/or demonstrated in the scheduled lab on the due-date. Late assignments/projects will be penalized by 50%. Late assignments/projects may not be accepted after the end of classes. Some assignments may be weighted differently than others.

Special Notes :

The Student will be eligible for a passing grade for the term, **only if** they obtain 35 out of a possible 70 marks (on exams and quizzes).