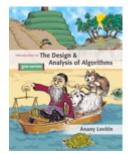
CS 2040 Algorithms I 3(3-0-1) 60 hours UT—UofA, Athabasca, UofL

Prerequisites: CS1150, CS 2720 and MA 1130

- Instructor: David Gregg C-427 539-2976 gregg@gprc.ab.ca
- Office Hours: TBA and by prior arranged appointment
- **Text:** Introduction to the Design and Analysis of Algorithms, 2nd ed; Anany V. Levitin; Addison-Wesley;2007



Evaluation:	Assignments	20%
	Quizzes (3)	30%
	Midterm Exam	20%
	Final Exam	30%

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-
55 – 59	D+
50 – 54	D
0 - 49	F

minimum acceptable grade for transfer to the UofA

minimal pass acceptable for GPRC fail

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

Course Description:

This is the first course of a two course sequence on algorithm design and analysis, with the emphasis on fundamentals such as searching, sorting and graph algorithms. Topics include algorithm analysis-running time, Big–O, Big–Q, Big– Θ , recursion, recurrence, induction, brute force algorithms, divide and conquer, space vs. time, dynamic programming, greedy algorithms, and the limitations of algorithm power.

Course Format:

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

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

Assignment Policy:

Assignments are due in the scheduled lab on the specified due-date.