GRANDE PRAIRIE REGIONAL COLLEGE

DEPARTMENT OF SCIENCE

Computer Programming for Engineers
CS 1000 3.8 (3-0-2) UT, Winter Semester 2011

Instructor: Dr. George Ding

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Office Hours: Thursday 11:30 AM to 12:30 PM or by appointment

Course Description

This course is intended as the first programming course for engineering students.

Text Books

C++ for Engineers and Scientist *Third edition* by Gary J. Bronson, Thomson Learning. ISBN 0-324-78643-3..

Prerequisite: None

Course Format

This course consists of three hours of lecture, and two hours of laboratory instruction each week.

Course Objectives

This course is designed to teach engineering students basic computer concepts and terminologies as well as to develop proficiency in C++ programming to solve engineering problems. By the end of the semester, students should have acquired a real appreciation into the difficulties involved in defining instructions in a manner precise enough for the computer to execute. Each student is expected to design and develop several well-structured C++ programs as solutions to given assignments. It is also expected that each student becomes proficient in using Microsoft Visual Studio .NET 2010 C++ compiler (under Windows 7 environment) to compile, debug, and execute C++ programs for solving engineering problems.

Late Assignment

An assignment turned in later than the due date will be penalized 10% of the total possible points for each day late (excluding weekends and college holidays). No late assignment will be accepted after the assignment is graded and returned.

Transferability and Transfer Agreement

This course is transferable to UA, UC*, UL, AU, CU, CUC, and KUC. The transfer agreements set out for this course can be found by visiting the Alberta Council on Admission and Transfer website.

Calendar Description

The calendar description for this course can be found at the GPRC website.

Marking:

Assignments:	23%
Quizzes:	16%
Midterm Exam:	25%
Final Exam:	36%