

F.92

GRANDE PRAIRIE REGIONAL COLLEGE
Department of Computer Systems Technology
Course Outline

CT 2140 - TECHNICAL PROGRAMMING (3-3)

INSTRUCTOR: David Gregg

OFFICE: E216

PHONE: 539-2976

**MATERIALS
REQUIRED:** Using Borland C++, Atkinson and Atkinson.
Class handouts.

PREREQUISITE: CT 1420.

COREQUISITE: CT 2270.

**COURSE
DESCRIPTION:** This course is an introduction to technical programming on IBM PCs. The hardware of the intel 80X86 series of processors will be addressed in detail. This course will also introduce you to programming the 80X86 processors using assembly language and the C language.

EVALUATION:

Assignments and Quizzes:	35%
Mid-term Exam:	25%
Final Exam:	40%

Any quizzes will be held in class. Quizzes and Assignments are worth the same.

Exams

The mid-term exam is held in class and is worth 25%. The final exam is scheduled by the Registrar and is worth 40%.

FINAL GRADE: Final percentages are converted to GPRC's nine point scale as follows:

90 - 100%	9	
80 - 89%	8	Excellent
72 - 79%	7	
65 - 71%	6	Good
57 - 64%	5	
50 - 56%	4	Pass
45 - 49%	3	
26 - 44%	2	
0 - 25%	1	

COURSE CONTENT:

<u>Topic</u>	<u>Classes Required</u>	<u>Chapters</u>
Introduction to C	7	1-6, 8
Number Systems	3	
Computer Architecture of the 80X86	5	7
Basic Assembly Language	9	9
Embedded Assembler	1	10
Advanced Addressing Modes	3	
Interfacing C and Assembler	2	
Bit Bashing	2	
Calling Operating System Services	2	10

ASSIGNMENT POLICY: All assignments must be turned in--late or not--in order for you to receive a passing grade in this course. Late assignments will be accepted, but penalized by 25%. **Assignments will not be worth any marks unless a 50% average is maintained on all exams and quizzes.**