Grande Prairie Regional College
School of Business
Department: Academic Upgrading

COURSE OUTLINE—WINTER 2006

INTRODUCTION TO MATH 0131

Instructor's name: Pam Smith Phone number: 539 - 2709

Instructor's office: C310 Email: psmith@gprc.ab.ca

Calendar Description:

MA 0131 Mathematics Grade 12 Calculus Equivalent 5 (5-0-0) Time: 75 Hours

Description: This course includes slopes and tangents, distance, velocity and acceleration, maxima and minima, sequences, limits and derivatives, derivatives of functions, tangents, derivatives and graphs, further applications of derivatives and anti-derivatives.
Prerequisite: MA 0120 or equivalent (Pre- or Co requisite MA 0130).

Resource requirements:

Scientific calculator
Modules will be provided. An auxiliary fee has been charged for the use of these modules.

Attendance:

Regular attendance is expected of all students in all mathematics courses. Your success in math is directly linked to your attendance. Attendance will be taken during class. Any student **missing more than 15 classes may be debarred from writing the final exam**.

Course Delivery and Evaluation:

This course is divided into 10 separate units called modules. The instructions for each topic are given in the modules, followed by several examples and exercises. Study the instructions and work through the examples before starting each exercise. The answers for each exercise are given at the end of the module. Check your work **often** to make sure you understand each new topic.

The key to success in working with modules is to **ask questions** whenever you have difficulty understanding the instructions, the examples, or the exercises. **Do not hesitate to ask for help.**

After each module you must write a test. When writing a test, be sure to show all of your work on the test paper. Marks are given for method as well as final answer. A passing mark of 60% is required on the test before continuing on to the next module. If you are unable to attain this mark, you must review the material and rewrite the test. The first and second test mark will be averaged.

A 50-minute midterm, which will cover the first five modules, must be written by **Friday, February 17**. If you miss this date, you will receive a mark of 0% on your midterm. Upon completion of all the course modules, you will write a three hour final exam. Be sure to leave time to prepare for these important exams! They are worth a large percentage of your final grade.

The recommended test date for each module and the midterm is on the next page. Follow these dates as closely as you can. You are encouraged to write a test early if you are prepared. **Consult your instructor immediately if you find yourself falling behind schedule.** Your instructor may need to reassess your math skills to ensure that you are placed in a course where you can be successful. **All tests must be written by Thursday, April 13.**

Bonus
When you write your module tests on or before the given date, you will be awarded an additional 2% on your score for each test.

Your final mark is determined by:

10 module tests	40%
Midterm	20%
Final Exam	40%

Final grades are given as follows:

Alpha Grade	4-Point Equivalent	Percentage Guidelines	Designation
A+	4.0	90 - 100	Excellent
A	4.0	85 - 89	
A-	3.7	80 - 84	First Class Standing
B+	3.3	76 - 79	
B	3.0	73 - 75	Good
B-	2.7	70 - 72	
C+	2.3	67 - 69	Satisfactory
C	2.0	64 - 66	
C-	1.7	60 - 63	
D+	1.3	55 - 59	Minimal Pass
D	1.0	50 - 54	
F	0.0	0 - 49	*Fail*

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Module	TOPIC/DESCRIPTION	Recommended Time & Test Date	Date written	Your mark
1	Review	6 days January 11 Wednesday		
2	Limits	8 days January 23 Monday		
3	The Derivative	8 days February 2 Thursday		
4	More Derivatives - chain rule - product rule - quotient rule	9 days February 15 Wednesday		
	MIDTERM - must be written on or before	**Friday, February 17**		
5	Maxima and Minima	6 days March 6 Monday		
6	Tangents, Derivatives and Graphs	7 days March 15 Wednesday		
7	Further Applications of Derivatives	5 days March 22 Wednesday		
8	Anti-Derivatives and Area	8 days April 3 Monday		
9	Derivatives of Trigonometric Functions	7 days April 12 Wednesday		
	FINAL EXAM - 3 HOURS	**TBA** **(April 17-25)**		