Grande Prairie Regional College
Academic Upgrading Department

INTRODUCTION TO MATH 0120

Instructor: Sukhvir Sandhu   Phone number: 539-2810
Instructor's office: C310   Email: ssandhu@gprc.ab.ca

Calendar Description:
MA 0120 Mathematics Grade 11 Equivalent (Pure) 5 (5-0-0) Time: 75 Hours
Description: This course explores equations, inequalities, systems of equations,
exponents and radicals, rational expressions and equations, polynomial functions and
equations, other functions, geometry and mathematical reasoning, and mathematical
applications.

Prerequisite: MA0110 or equivalent math placement test score.

Resource requirements:
Package of Ma0120 modules, 2004
Scientific calculator

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 7 classes may be debarred from writing the final exam**.

Course Delivery and Evaluation:
This course is divided into 9 separate units called modules.   The instructions for each
topic are given in the modules, followed by several examples and exercises. As well,
the instructor will teach a mini lesson daily to clarify the more difficult concepts and also
to keep you on schedule.
The key to success 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 the final answer. A passing
mark of 50% is required. 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. Repeat tests
must be written outside of class time. Graphing calculators are **not** permitted for tests.
A 50-minute midterm, which will cover the first five modules, must be written by **Friday,
May 27.** 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.

The test date for each module and the midterm is on the next page. You are allowed to write a test early if you are prepared. **Consult your instructor immediately if you find yourself unable to keep up to the 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 June 20, 2005.**

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:

9 module tests	36%
Midterm	20%
Attendance/Participation	4%
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*

Module	TOPIC/DESCRIPTION	Test Date	Your mark
1	Equations and Inequalities -solving linear equations and inequalities -graphing linear equations and inequalities -absolute value equations and inequalities	May 5	
2	Systems of Equations - solving systems of equations by graphing, substitution, and elimination; applications	May 10	
3	Exponents and Radicals - rational exponents; four basic operations on exponents and radicals; solving radical equations	May 13	
4	Rational Expressions -nonpermissible values; simplifying; four basic operations; equations	May 19	
5	Geometry -basic theorems -circle terminology; properties of angles and chords in a circle; tangents to a circle	May 25	
	MIDTERM EXAM	**May 27**	
6	Relations and Functions - domain and range; functional notation; graphing; inverse functions; transformations	June 3	
7	Quadratic Functions - graphing; completing the square; characteristics; applications	June 8	
8	Quadratic Equations - solving by factoring and quadratic formula; nature of roots; applications	June 14	
9	Polynomial Functions & Equations - synthetic division - remainder & factor theorems; equations and graphs	June 20	
	FINAL EXAM - 3 HOURS	**June 22**	