Grande Prairie Regional College
Academic Upgrading Department

INTRODUCTION TO MATH 0120

Instructor: Christine Frattini   Phone number: 539-2010
Instructor's office: C416   Email: cfrattini@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 15 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 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.
A 50-minute midterm, which will cover the first five modules, must be written by **Tuesday
October 26**. 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 December 10, 2004.**

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	7days Sept.15	
2	Systems of Equations - solving systems of equations by graphing, substitution, and elimination; applications	6days Sept.23	
3	Exponents and Radicals - rational exponents; four basic operations on exponents and radicals; solving radical equations	7 days Oct. 4	
4	Rational Expressions -nonpermissible values; simplifying; four basic operations; equations	7 days Oct. 14	
5	Geometry -basic theorems -circle terminology; properties of angles and chords in a circle; tangents to a circle	6 days Oct. 22	
	MIDTERM EXAM	**Oct. 26**	
6	Relations and Functions - domain and range; functional notation; graphing; inverse functions; transformations	8 days Nov. 5	
7	Quadratic Functions - graphing; completing the square; characteristics; applications	6 days Nov. 17	
8	Quadratic Equations - solving by factoring and quadratic formula; nature of roots; applications	7 days Nov. 26	
9	Polynomial Functions & Equations - synthetic division - remainder & factor theorems; equations and graphs	8 days Dec. 8	
	FINAL EXAM - 3 HOURS	**TBA**	