



Grande Prairie Regional College
Department: Academic Upgrading

COURSE OUTLINE – WINTER 2009
INTRODUCTION TO MATH 0120

Instructor: Christine Frattini Phone number: 539-2810
Instructor's office: Math Lab A210 Email: cfrattini@gprc.ab.ca
Office Hours: Daily after MA0120 class.

Calendar Description:

MA0120 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, 2007
Scientific calculator, graph paper

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 10 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 for 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 marks will be averaged. Repeat tests must be written outside of class time.

A 50-minute midterm, which will cover the first five modules, will be written on **Friday, February 27**. 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. Any student not attending class on a test date will receive a grade of zero for that test unless a phone call is made *prior* to the time of the test and an explanation of the absence satisfactory to the instructor is provided. As well, there will be a deduction of 10% for any late test.

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. Extra help is available outside of class time.

Your final mark is determined by:

9 module tests	45%
Midterm	20%
Final Exam	35%

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	
B-	2.7	70 - 72	Good
C+	2.3	67 - 69	
C	2.0	64 - 66	Satisfactory
C-	1.7	60 - 63	
D+	1.3	55 - 59	
D	1.0	50 - 54	Minimal Pass
F	0.0	0 - 49	
			<i>Fail</i>

MA0120 – Winter 2009

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	7 days Wednesday January 14	
2	Systems of Equations - solving systems of equations by graphing, substitution, and elimination; applications	5 days Wednesday January 21	
3	Exponents and Radicals - rational exponents; four basic operations on exponents and radicals; solving radical equations	7 days Friday January 30	
4	Rational Expressions -nonpermissible values; simplifying; four basic operations; equations	7 days Tuesday February 10	
5	Geometry -basic theorems -circle terminology; properties of angles and chords in a circle; tangents to a circle	6 days Wednesday February 25	
	MIDTERM EXAM	Friday Feb. 27	
6	Relations and Functions - domain and range; functional notation; graphing; inverse functions; transformations	8 days Wednesday March 11	
7	Quadratic Functions - graphing; completing the square; characteristics; applications	6 days Thursday March 19	
8	Quadratic Equations - solving by factoring and quadratic formula; nature of roots; applications	7 days Monday March 30	
9	Polynomial Functions & Equations - synthetic division - remainder & factor theorems; equations and graphs	9 days Monday April 13	
	FINAL EXAM - 3 HOURS	Apr. 16-27	

Winter 2009 Homework Schedule

1. Equations and Inequalities

1	2	3	4	5&6	Review	Test: Wed. Jan. 14
Jan.6	7	8	9	12	13	

2. Systems of Equations.

1	2	3&4	5	Review	Test: Wed. Jan. 21
Jan.14	15	16	19	20	

3. Exponents and Radicals

1	2&3	4&5	6&7	8&9	10	Review	Test: Friday Jan. 30
Jan.21	22	23	26	27	28	29	

4. Rational Expressions

1	2	3	4	4	5	6& Review	Test: Tuesday Feb. 10
Jan.30	Feb.2	3	4	5	6	9	

5. Geometry

1&2	3	4&5	6	Review	Test: Wed. Feb. 25
Feb.11	12	13	23	24	

Midterm Exam on Friday February 27

6. Relations and Function

1(A,B,C,D)	2	3A	3B	4	5	Review	Test: Wed. March 11
Mar.2	3	4	5	6	9	10	

7. Quadratic Functions

1&2	3	4&5	6	Review	Test: Thursday March 19
Mar.12	13	16	17	18	

8. Quadratic Equations

1	2&3	4	4&5	6	7	Review	Test: Monday March 30
Mar.19	20	23	24	25	26	27	

9. Polynomial Functions

1&2	3&4	4&5	6	7	8&9	10	Review	Test: Monday April 13
Mar.31	Apr.1	2	3	6	7	8	9	

Final Exam: (Apr. 16-27) to be announced

AUD STUDENT CLASSROOM DEPARTMENT GUIDELINES DRAFT May 2008

The Academic Upgrading Department is an adult education environment. Students are expected to show respect for each other as well as faculty and staff. They are expected to participate fully in achieving their educational goals in a timely manner.

Certain activities are disruptive and not conducive to an atmosphere of learning. In addition to the *Student Rights and Responsibilities* as set out in the College calendar, the following guidelines will maintain an effective learning environment for everyone. We ask the cooperation of all students in the following areas of classroom department.

1. Students are expected to turn off cell phones during class time or in labs.
2. Refrain from disruptive talking or socializing during class time.
3. Be respectful of others regarding food or beverages in the classroom. Clean up your eating area and dispose of garbage.
4. Recycle paper, bottles and cans in the appropriate containers.
5. Students are expected to be punctual. Arrive on time for classes and remain for the duration of scheduled classes or related activities.
6. Children are not permitted in the classrooms.
7. Students are expected to notify his/her instructor of any extenuating circumstances.

Electronic Devices

No unspecified electronic devices will be allowed in exams.

Success Standard

Although 50% is considered a pass in most courses, if you wish to be successful at the next level, we strongly recommend that you have a mark of 60% or better in your pre-requisite courses.

Examinations:

The final exam will be 3 hours long and is scheduled by the registrars' office during April 16 – April 27.

Statement on Plagiarism:

The instructor reserves the right to use electronic plagiarism detection services.