Grande Prairie Regional College
Department: Academic Upgrading

COURSE OUTLINE—WINTER 2009 (**No Friday Class**)

INTRODUCTION TO MATH 0110

Instructor: **Sukhvir Sandhu** Phone number (780) 539-2234 or 2810

Instructor's office: C310 or A210 Email: ssandhu@gprc.ab.ca

Calendar Description:

MA 0110 Mathematics Grade 10 Equivalent (Pure) 5 (5-0-0) Time: 75 Hours

Description: This course first reviews number systems and then explores exponents, radicals, polynomials, probability, coordinate geometry, and introduction to functions, trigonometry (including sine and cosine laws) and statistics.

Prerequisite: MA0100 or equivalent math placement test score.

Resource requirements:

Package of Ma0110 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. 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 **Thursday, February 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. 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 Friday, April 14, 2009.**

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	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	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 Jan. 14 Wednesday		
2	Polynomials - evaluating polynomials; - four basic operations	6 days Jan. 22 Thursday		
3	Factoring - common factors, trinomials and difference of squares; solving by factoring	5 days Feb. 3 Tuesday		
4	Radicals & Exponents -simplifying radicals, four basic operations with radicals, rationalize denominators, and rational exponents	6 days Feb. 12 Thursday		
5	Probability	3 days Feb. 24 Tuesday		
	MIDTERM - must be written on or before	**Thursday February 26**		
6	Co-ordinate Geometry I - Line Segments - distance between points, midpoints, slope, parallel and perpendicular line segments	6 days March 11 Wednesday		
7	Co-ordinate Geometry II - The Straight Line - rectangular co-ordinate system, equations of lines, graphing linear equations and inequalities	6 days March 23 Monday		
8	Introductions to Relations and Functions -relations, functions, evaluating functions, linear functions, direct variation	6 days April 1 Wednesday		
9	Trigonometry - Pythagorean Theorem, sin, cos, tan, applications	7days April 14 Tuesday		
	FINAL EXAM - 3 HOURS	**T.B.A**. (April 16- 27)		

MA0110 Winter of 2009
Home-Work Schedule (No Friday Class)

1. Review

1-3	4&5	6&7	8	Review	**Test: Wednesday Jan. 14**
Jan. 6	**7**	**8**	**12**	**13**	

2. Polynomials

1	2-4	5&6	7&8	9&Review	**Test: Thursday Jan. 22**
Jan.14	**15**	**19**	**20**	**21**	

3. Factoring

1&2	3	4	5	6	Review	**Test: Tuesday Feb. 3**
Jan. 22	**26**	**27**	**28**	**29**	**Feb.2**	

4. Radicals and Exponents

1	2&3	4&5	6&7	8& 9	Review		**Test: Thursday Feb. 12**
Feb.3	**4**	**5**	**9**	**10**	**11**		

5. Probability

1-4	Review	**Test: Tuesday Feb. 24**
Feb. 12	**23**	

Midterm Exam on Thursday, February 26

6. Co-ordinate Geometry I

1	2	3	4	5	6	Review	**Test: Wednesday March 11**
Feb. 26	**Mar 2**	**3**	**4**	**5**	**9**	**10**	

7. Co-ordinate Geometry II

1	2	3	4	5	6&Review	**Test: Monday March 23**
Mar.11	**12**	**16**	**17**	**18**	**19**	

8. Introductions to Relations and Functions

1	2	3	4	5	Review	**Test: Wednesday April 1**
Mar.23	**24**	**25**	**26**	**30**	**31**	

9. Trigonometry

1	2	3	4	5	6	Review	**Test: Tuesday April 14**
April1	**2**	**6**	**7**	**8**	**9**	**13**	

Final Exam: (April 16 - 27) to be announced

AUD STUDENT CLASSROOM DEPORTMENT 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 deportment.

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.