



DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – WINTER 2011

INTRODUCTION TO MATH 0100 (No Friday Class)

INSTRUCTOR: Sukhvir Sandhu **PHONE:** (780) 539-2810 or 2234

OFFICE: Math Lab A210 or **E-MAIL:** ssandhu@gprc.ab.ca
C310

OFFICE HOURS: Every day 10:30 – 11:30 am

PREREQUISITE(S)/COREQUISITE:

MA0090 or equivalent math placement test score

REQUIRED TEXT/RESOURCE MATERIALS:

Package of MA0100 modules, 2005

Scientific calculator; graph paper

CALENDAR DESCRIPTION:

The course includes a review of basic computational skills, number sets, exponents, basic operations on polynomials including factoring, equations, and inequalities, algebraic word problems, introduction to trigonometry, shape and space geometry, graphing and data analysis.

CREDIT/CONTACT HOURS:

MA 0100 High School Preparatory Mathematics 5 (5-0-0)

Time: 75 Hours

DELIVERY MODE(S):

MA0100 is a modularized course. It 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 marks will be averaged.

A 50-minute midterm, which will cover the first five modules, must be written by **Monday, February 28**. 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 back of 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 Tuesday, April 12.**

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.

SUCCESS STANDARD

Although 50% is considered a pass for this course, if you wish to be successful at the next level, we strongly recommend that you achieve a mark of 60% or better.

GRADING CRITERIA:

Your final mark is determined by:

10 module tests	50%
Midterm	15%
Final Exam	35%

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
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	77 – 79	
B	3.0	73 – 76	GOOD
B⁻	2.7	70 – 72	
C⁺	2.3	67 – 69	SATISFACTORY
C	2.0	63 – 66	
C⁻	1.7	60 – 62	
D⁺	1.3	55 – 59	MINIMAL PASS
D	1.0	50 – 54	
F	0.0	0 – 49	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

Objectives / Tests / Examinations

Module	Objectives / Topics	Recommended Time & Test Date	Date written	Your Mark
1	Review - basic notations - decimals, fractions & integers - four basic operations - order of operations, percentage	4 days January 11 Tuesday		
2	Numbers - sets	2 days January 13 Thursday		
3	Exponents - laws of exponents - scientific notation	6 days January 25 Tuesday		
4	Introduction to Polynomials - four basic operations	6 days February 03 Thursday		
5	Products and Factoring - binomial multiplication - factoring, common factor - trinomials and difference of squares	7 days February 16 Wednesday		
	MIDTERM - must be written on or before	Monday February 28		
6	Equations and Inequalities - solving - evaluating expressions, formulas - rearranging formulas	7 days March 10 Thursday		
7	Language of Algebra - writing algebraic expressions and equations - word problems	5 days March 21 Monday		
8	Geometry - plane geometry	4 days March 28 Monday		
9	Trigonometry - congruent & similar triangles - tangent, sine & cosine with applications	5 days April 05 Tuesday		
10	Graphs & Data Analysis	3 days April 11 Monday		
	FINAL EXAM - 3 HOURS	TBA (April 14 - 27)		

Homework Schedule (No Friday Class)

1. Review
 1-7 8-14 15, 16&Review
Jan. 5 6 10 **Test: Tuesday, Jan. 11**

2. Numbers
 1-3 4&Review
Jan. 11 12 **Test: Thursday, Jan. 13**

3. Exponents
 1&2 3 4&5 6 7 Review
Jan. 13 17 18 19 20 24 **Test: Tuesday, Jan. 25**

4. Introduction to Polynomials
 1&2 3&4 5&6 7&8 9&10 Review
Jan. 25 26 27 31 Feb. 1 2 **Test: Thursday, Feb. 3**

5. Products and Factoring
 1 2 3&4 5 6 7&8 Review
Feb. 3 7 8 9 10 14 15 **Test: Wed., Feb. 16**

Midterm on Monday February 28

6. Equations and Inequalities
 1&2 3&4 5 6 7&8 9&10 11&Review
Feb. 28 Mar. 1 2 3 7 8 9 **Test: Thursday, Mar. 10**

7. Language of Algebra
 1 2&3&4 5 6&7 8&Review
Mar. 10 14 15 16 17 **Test: Monday, Mar. 21**

8. Geometry
 1 2 3&4 Review
Mar. 21 22 23 24 **Test: Monday, Mar. 28**

9. Trigonometry
 1 2&3 4 5&6 Review
Mar. 28 29 30 31 Apr. 4 **Test: Tuesday, Apr. 5**

10. Graphs and Data Analysis
 1 2&3 4, 5&Review
Apr. 5 6 7 **Test: Monday, Apr. 11**

Final Exam: (April 14 - 27) to be announced

STUDENT RESPONSIBILITIES:

In addition to the *Student Rights and Responsibilities* as set out in the **College Calendar** (pages 47-50), the following guidelines will maintain an effective learning environment for everyone:

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

ELECTRONIC DEVICES:

Students are expected to turn off cell phones during class time or in labs. No unspecified electronic devices will be allowed in exams.

STATEMENT ON PLAIGIRISM:

Please refer to pages 48-49 of the College Calendar regarding plagiarism, cheating, and the resultant penalties. These are serious issues and will be dealt with severely.