

## **DEPARTMENT OF ACADEMIC UPGRADING**

COURSE OUTLINE – WINTER 2012 INTRODUCTION TO MATH 0091

INSTRUCTOR:	Alan Iwaskow	PHONE:	(780) 539-2713	
OFFICE:	C207	E-MAIL:	aiwaskow@gprc.ab.ca	
OFFICE HOURS:	Tuesday and Thursday	<sup>,</sup> 5:30 - 6:0	0 in the Math Lab A210	
PREREQUISITE(S)/COREQUISITE:				

MA0081, or equivalent math placement test score

## **REQUIRED TEXT/RESOURCE MATERIALS:**

Package of MA0091 modules, Updated 2011 Scientific calculator

## CALENDAR DESCRIPTION:

This course is modularized program of study which covers basic computational skills, ratio and proportion, percent; an introduction to exponents, basic operations on polynomials, equations, basic algebraic word problems; fundamentals of geometry, introduction to graphing, and statistics.

## **CREDIT/CONTACT HOURS:**

MA 0091 Basic Mathematics III 5 (5-0-0) Time: 75 Hours

### **DELIVERY MODE:**

MA0091 is a modularized math course 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 four modules, must be written by **Tuesday**, **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 Thursday, 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	Percentage	Designation		
	Equivalent	Guidelines	Designation		
$A^{+}$	4.0	90 - 100	EXCELLENT		
Α	4.0	85 – 89			
A	3.7	80 - 84			
B⁺	3.3	77 – 79			
В	3.0	73 – 76	6000		
B⁻	2.7	70 – 72			
C⁺	2.3	67 – 69			
С	2.0	63 - 66	SATISFACTORY		
C⁻	1.7	60 - 62			
$D^{+}$	1.3	55 – 59			
D	1.0	50 – 54			
F	0.0	0 – 49	FAIL		
WF	0.0	0	FAIL, withdrawal after the deadline		

# **Objectives / Tests / Exams**

Module	TOPIC/DESCRIPTION	Recommended Time & Test Date	Date written	Your Mark
1	Review - four basic operations on decimals, fractions, & integers -order of operations	January 12 Thursday		
2	Ratio and Proportion -Simplifying and reducing ratios -rates and proportions -similar figures	January 24 Tuesday		
3	Percent -changing percent to decimals & fractions -changing decimals and fractions to percent -application of percent	Feb. 2 Thursday		
4	Introduction to Exponents -laws of exponents -scientific notation	Feb. 9 Thursday		
5	Introduction to Polynomials -combining like terms -basic operations with polynomials	Feb. 16 Thursday		
	MIDTERM must be written on or before	Tuesday Feb. 28		
6	Equations and Inequalities -solving -evaluating expressions, formulas -rearranging formulas	March 8 Thursday		
7	Language of Algebra -writing algebraic expressions and equations -word problems	March 15 Thursday		
8	Fundamental of Geometry -plane geometry & polygons -Parallel Line Theorem -circle geometry	March 27 Tuesday		
9	Intro to Graphing -reading and making graphs in the rectangular coordinate system -slope of a line	April 3 Tuesday		
10	Statistics -organizing data, graphs -measures of central tendency	April 10 Tuesday		
	FINAL EXAM - 3 HOURS	TBA (April 16 - 26)		

#### MA0091 Winter 2012

	MA0091
Jan 5 Th	M1 Ex 1-6
Jan 10 Tu	M1 Ex 7-12
Jan 12 Th	M1 Ex 13-14, Rev,
	T1
Jan 17 Tu	M2 Ex 1-4
Jan 19 Th	M2 Ex 5-8
Jan 24 Tu	M2 Ex 9, Rev, T2
Jan 26 Th	M3 Ex 1-4
Jan 31 Tu	M3 Ex 5-8
Feb 2 Th	M3 Ex 9, Rev, T3
	M4 Ex 1
Feb 7 Tu	M4 Ex 2-5
Feb 9 Th	M4 Rev, T4
	M5 Ex 1-2
Feb 14 Tu	M5 Ex 3-7
Feb 16 Th	M5 Ex 8, Rev, T5
	Midterm Review
	Winter Break
Feb 28 Tu	Midterm Rev, MT
Mar 1 Th	M6 Ex 3-6
Mar 6 Tu	M6 Ex 7-10
Mar 8 Th	M6 Ex 11, Rev. T6
	M7 Ex 1-2
Mar 13 Tu	M7 Ex 3-7
Mar 15 Th	M7 Ex 8, Rev, T7
Mar 20 Tu	M8 Ex 1-3
Mar 22 Th	M8 Ex 4-5, Rev
Mar 27 Tu	тв
	M9 Fx 1
Mar 29 Th	M9 Ex 2-5
Apr 3 Tu	M9 Rev, T9
	M10 Ex 1-2
Apr 5 Th	M10 Ex 3-7
Apr 10 Tu	M10 Fx 8-9 Rev
	T10
Apr 12 Th	Final Review

# Final exam to be announced (April 16 - 26)

### **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:

- 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 PLAGIARISM:**

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.