DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – WINTER 2012

INTRODUCTION TO MATH 0081

INSTRUCTOR: Christine Frattini **PHONE:** (780) 539-2810
OFFICE: Math Lab A210 **E-MAIL:** cfrattini@gprc.ab.ca

OFFICE HOURS: Daily 9:45-10:30 am and 3:00-3:30 pm in the Math Lab

PREREQUISITE(S)/COREQUISITE:
MA0060, or equivalent math placement test score

REQUIRED TEXT/RESOURCE MATERIALS:
Package of MA0081 modules, 2011
Scientific calculator which will be used for module 9 (Dimensional Geometry) only

CALENDAR DESCRIPTION:
This course is a modularized program of study which covers whole numbers, decimals, fractions, integers, introduction to algebra, introduction to equations, metric measurement, dimensional geometry, and problem solving.

CREDIT/CONTACT HOURS:
MA0081 Basic Mathematics II 5 (5-0-0)
Time: 75 Hours

DELIVERY MODE:

MA 0081 is a modularized math course 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 for final answers. 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 **Friday, February 17th.** 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 12th.**

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:

9 module tests	45%
Midterm	20%
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**

MA0081 WINTER 2012
Objectives / Tests / Exams

Module	DESCRIPTION	Recommended Time & Test Date	Date written	Your mark
1	Whole Numbers - reading, writing and rounding - four basic operations, order of operations - exponents and square roots; word problems	7 days Friday January 13		
2	Decimals - reading, writing and rounding - four basic operations - order of operations	8 days Wednesday January 25		
3	Introduction to Fractions - proper, improper, mixed fractions - equivalent fractions; comparing fractions - reducing fractions	6 days Thursday February 2		
4	Operations with Fractions - four basic operations - complex fractions - word problems	9 days Wednesday February 15		
	Midterm – must be written on or before	**Friday** **February 17**		
5	Introduction to Integers - real life positive and negative numbers - four basic operations - exponents, order of operation	8 days Wednesday March 7		
6	Introduction to Algebra - basic algebraic concepts - writing variable expressions - evaluating expressions	5 days Wednesday March 14		
7	Introduction to Equations - solving simple linear equations - formulas	6 days Thursday March 22		
8	Measurement - linear measurement, mass and volume - converting within metric system - time and temperature	6 days Friday March 30		
9	Dimensional Geometry - perimeter, area and volume - Pythagorean Theorem	8 days Thursday April 12		
	Final Exam	**To be announced** (April 16-26)		

MA0081 WINTER 2012
Homework Schedule

1. Whole Numbers

1-3	4&5	6&7	8&9	10	Review	**Test: Jan. 13**
Jan.5	**6**	**9**	**10**	**11**	**12**	

2. Decimals

1	2	3	4	5	6	Review	**Test: Jan. 25**
Jan.16	**17**	**18**	**19**	**20**	**23**	**24**	

3. Introduction to Fractions

1–3	4&5	6&7	8&9	10&Review	**Test: Feb. 2**
Jan.26	**27**	**30**	**31**	**Feb.1**	

4. Operations of Fractions

1	2	3	4	5&6	7	8&9	**Review**	**Test: Feb. 15**
Feb.3	**6**	**7**	**8**	**9**	**10**	**13**	**14**	

Midterm Exam on Friday, February 17th

5. Introduction to Integers

1	2	3	4	5&6	7&8	Review	**Test: Mar. 7**
Feb.27	**28**	**29**	**Mar.1**	**2**	**5**	**6**	

6. Introduction to Algebra

1&2	3	4	Review	**Test: Mar. 14**
Mar.8	**9**	**12**	**13**	

7. Introduction to Equations

1-2	3	4	5	Review	**Test: Mar. 22**
Mar.15	**16**	**19**	**20**	**21**	

8. Measurement

1&2	3&4	5&6	7&8	Review	**Test: Mar. 30**
Mar.23	**26**	**27**	**28**	**29**	

9. Dimensional Geometry

1	2	3	4	5	6	Review	**Test: Apr. 12**
Apr.2	**3**	**4**	**5**	**9**	**10**	**11**	

Final exam to be announced (April 16 - 26)

STUDENT RESPONSIBILITIES:
In addition to the ***Student Rights and Responsibilities*** as set out in the college website, 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 OF PLAGIARISM:
Please refer to the College Website for policies regarding plagiarism and cheating as well as the resultant penalties. These are serious issues and will be dealt with severely.