DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – WINTER 2012

INTRODUCTION TO MATH 0135

INSTRUCTOR: Sukhvir Sandhu **PHONE:** (780) 539-2810 or 2234
OFFICE: Math Lab A210 **E-MAIL:** ssandhu@gprc.ab.ca

OFFICE HOURS: Daily, 10:30 – 11:30 am in the Math Lab or by appointment

PREREQUISITE(S)/COREQUISITE:
MA 0110 or equivalent, or MA0125, or equivalent math placement score

REQUIRED TEXT/RESOURCE MATERIALS:
Scientific calculator
Modules will be provided. An auxiliary fee has been charged for the use of these modules.

CALENDAR DESCRIPTION:
This course includes a review of fractions and decimals, measurement, ratio, proportion and percent, operations with polynomials, equations and inequalities, exponents and radicals, factoring, rational expressions, quadratic equations, statistics and probability.

CREDIT/CONTACT HOURS:
MA 0135 Business Mathematics Grade 12 equivalent 5 (5-0-0)
Time: 75 Hours

DELIVERY MODE:

MA0135 is a modularized math 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 13.** 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 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	Fractions / Decimals (burgundy) -review of fractions and decimals.	5 days Jan. 11 Wednesday		
2	Measurement (orange)	4 days Jan. 17 Tuesday		
3	Ratio, Proportion, and Percentage (burgundy)	5 days Jan. 24 Tuesday		
4	Factoring (burgundy) -Common factors, trinomials, and difference of squares; Solving equations by factoring	7 days Feb. 2 Thursday		
5	Statistics (grey) -organize data; graphs -measure of central tendency	5 days Feb. 9 Thursday		
	MIDTERM - must be written on or before	**Monday Feb. 13**		
6	Review (burgundy) -signed numbers, order of operations, fractions polynomials, equations, inequalities, & number line graphs	5 days Feb. 27 Monday		
7	Exponents and Radicals (burgundy) -rational exponents, four basic operations on Exponents and radicals, solving radical equations.	9 days Mar. 9 Friday		
8	Rational Expressions (burgundy) -non permissible values, simplifying four basic operations, equations	8 days Mar. 21 Wednesday		
9	Quadratic Equations (burgundy) -Solving by factoring & quadratic formula	7 days Mar. 30 Friday		
10	Statistics (yellow)	8 days Apr. 12 Thursday		
	FINAL EXAM - 3 HOURS	**TBA (April 16 - 26)**		

Homework Schedule

1. Fractions / Decimals

1&2	3&4	5&6	7&8	**Test: Wed. Jan. 11**
Jan. 5	**6**	**9**	**10**	

2. Measurement

1-4	5-7	8&Review	**Test: Tuesday Jan. 17**
Jan. 12	**13**	**16**	

3. Ratio, Proportion, & Percentage

1-4	5&6	7-9	10, 11 & Review	**Test: Tuesday Jan. 24**
Jan. 18	**19**	**20**	**23**	

4. Factoring

1&2	3	4	5	6	Review	**Test: Thursday Feb. 2**
Jan. 25	**26**	**27**	**30**	**31**	**Feb. 1**	

5. Statistics

1-3	4-6	7&8	9,10&Review	**Test: Thursday Feb. 9**
Feb. 3	**6**	**7**	**8**	

Midterm on Monday, February 13

6. Review

1	2	3	4&worksheet	**Test: Monday Feb. 27**
Feb. 14	**15**	**16**	**17**	

7. Exponents and Radicals

1&2	3&4	5-8	9&10	11&12	13&14	15&16	Review	**Test: Friday Mar. 9**
Feb. 28	**29**	**Mar.1**	**2**	**5**	**6**	**7**	**8**	

8. Rational Expressions

1	2	3	4	5	6	Review	**Test: Wed. Mar. 21**
Mar.12	**13**	**14**	**15**	**16**	**19**	**20**	

9. Quadratic Equations

1-3	4	5	6	7	Review	**Test: Friday Mar. 30**
Mar.22	**23**	**26**	**27**	**28**	**29**	

10. Statistics

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

Final Exam: (April 16 - 26) to be announced

STUDENT RESPONSIBILITIES:

In addition to the ***Student Rights and Responsibilities*** as set out on 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.