



DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – WINTER 2011

INTRODUCTION TO MATH 0125

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

PREREQUISITE(S)/COREQUISITE:

MA0100 or equivalent, MA0115, or equivalent math placement test score

REQUIRED TEXT/RESOURCE MATERIALS:

Modules will be provided. An auxiliary fee has been charged for the use of the modules.

Scientific calculator; graphing paper

CALENDAR DESCRIPTION:

This course includes number systems, exponents, polynomials, equations and inequalities, systems of equations, graphing, ratios and variation, accounting and investments.

CREDIT/CONTACT HOURS:

MA 0125 Business Mathematics Grade 11 equivalent 5 (5-0-0)

Time: 75 Hours

DELIVERY MODE:

MA0125 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 the 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 **Tuesday, March 1**. 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 front of the last 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.

OBJECTIVES:

This course is designed for students considering a one or two year program in office or business administration; it consists of basic mathematics and business topics.

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	Number Systems - sets, order of operations - fractions, decimals	7 days January 13 Thursday		
2	Exponents - laws of exponents - scientific notation	6 days January 21 Friday		
3	Polynomials - evaluating polynomials - four basic operations	8 days February 2 Wednesday		
4	Equations and Inequalities	7 days February 11 Friday		
5	Graphing	5 days February 18 Friday		
	MIDTERM - must be written on or before	Tuesday March 1		
6	Systems of Equations	6 days March 9 Wednesday		
7	Statistics	5 days March 16 Wednesday		
8	Accounting	5 days March 23 Wednesday		
9	Ratio and Variation	7 days April 1 Friday		
10	Investments	7 days April 12 Tuesday		
	FINAL EXAM - 3 HOURS	To be announced (April 14 - 27)		

Homework Schedule for MA0125

1. Number Systems:
1&2 3&4 5&6 7&8 9&10 Review **Test: Thursday, Jan. 13**
Jan. 5 6 7 10 11 12

2. Exponents:
1&2 3 4 5 Review **Test: Friday, Jan. 21**
Jan. 14 17 18 19 20

3. Polynomials:
1&2 3 4 5 6&7 8 Review **Test: Wednesday, Feb. 2**
Jan. 24 25 26 27 28 31 Feb. 1

4. Equations and Inequalities:
1&2 3&4 5&6 7&8 9&10 Worksheet **Test: Friday, Feb. 11**
Feb. 3 4 7 8 9 10

5. Graphing:
1&2 3 4&5 Worksheet **Test: Friday, Feb. 18**
Feb. 14 15 16 17

Midterm: Tuesday, March 1

6. Systems of Equations
1 2 3 4 5&Review **Test: Wednesday, Mar. 9**
Mar. 2 3 4 7 8

7. Statistics
1-3 4-6 7&8 9, 10&Review **Test: Wednesday, Mar. 16**
Mar. 10 11 14 15

8. Accounting
1&2 3 4 5&Worksheet **Test: Wednesday, Mar. 23**
Mar. 17 18 21 22

9. Ratio and Variation
1-4 5-7 8-10 11&12 13 Review **Test: Friday, Apr. 1**
Mar. 24 25 28 29 30 31

10. Investment
1 2 3 4 5 Worksheet **Test: Tuesday, Apr. 12**
Apr. 4 5 6 7 8 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 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.