



DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – WINTER 2012

INTRODUCTION TO MATH 0115

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

OFFICE HOURS: Daily, 2:30-3:30 pm in the Math Lab

PREREQUISITE(S)/COREQUISITE:

MA0090, MA0105, or equivalent math placement test score

REQUIRED TEXT/RESOURCE MATERIALS:

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

Scientific calculator

CALENDAR DESCRIPTION:

Description: A review of fractions, decimals, and percent is followed by algebraic terms and equations, insurance, retail pricing, consumer credit, geometry, and an introduction to trigonometry.

CREDIT/CONTACT HOURS:

MA0115 Business Mathematics Grade 10 equivalent 5 (5-0-0)

Time: 75 Hours

DELIVERY MODE:

This course 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 27**. 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.

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%

GRADING CRITERIA:

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

MA0115 TESTS / EXAMS WINTER 2012

Module	TOPIC/DESCRIPTION	Recommended Time & Test Date	Date written	Your mark
1	Fractions and Decimals - review fractions, decimals and percent	5 days Wednesday January 11		
2	Insurance	6 days Thursday January 19		
3	Discounts -trade discounts, discount series, cash discounts	8 days Tuesday January 31		
4	Markup and Markdown - selling price	7 days Thursday February 9		
5	Consumer Credit	5 days Thursday February 16		
	MIDTERM - must be written on or before	Monday, February 27		
6	Algebraic Terms - four basic operations	7 days Wednesday March 7		
7	Equations	5 days Wednesday March 14		
8	Language of Algebra - writing algebraic expressions - writing algebraic equations - word problems	5 days Wednesday March 21		
9	Geometry -perimeter, area and volume	5 days Wednesday March 28		
10	Trigonometry - Pythagorean Theorem - sin, cos, and tan	9 days Wednesday April 11		
	FINAL EXAM - 3 HOURS	T.B.A. (April 16-26)		

MA0115 WINTER 2012 Homework Schedule

1. Fractions and Decimals

1&2 3&4 5&6 7&Worksheet
Jan.5 6 9 10

Test: Wed. Jan. 11

2. Insurance

1 2 3 4 Review
Jan.12 13 16 17 18

Test: Thursday Jan. 19

3. Discounts

1 2 3 4 5 6 Worksheet
Jan.20 23 24 25 26 27 30

Test: Tuesday Jan. 31

4. Markup and Markdown

1&2 3&4 5&6 7 8 Worksheet
Feb.1 2 3 6 7 8

Test: Thursday Feb. 9

5. Consumer Credit

1&2 3&4 5&6 7&Worksheet
Feb.10 13 14 15

Test: Thursday Feb. 16

Midterm on Monday, February 27

6. Algebraic Terms

1&2 3&4 5 6 7 8&Review
Feb.28 29 Mar.1 2 5 6

Test: Wednesday Mar. 7

7. Equations

1 2 3 4&Worksheet
Mar.8 9 12 13

Test: Wednesday Mar. 14

8. Language of Algebra

1 2 3 Review
Mar.15 16 19 20

Test: Wednesday Mar. 21

9. Geometry

1&2 3 4 Review
Mar.22 23 26 27

Test: Wednesday Mar. 28

10. Trigonometry

1 2 3 4 5 6 7 Review
Mar.29 30 Apr.2 3 4 5 9 10

Test: Wednesday Apr. 11

Final Exam: (April 16-26) 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 OF 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.