DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – FALL 2011

INTRODUCTION TO MATH 0110

INSTRUCTOR: Alan Iwaskow **PHONE:** (780) 539-2713

OFFICE: C207 **E-MAIL:** aiwaskow@gprc.ab.ca

OFFICE HOURS: 5:30-6:00pm Tuesday and Thursday in the Math lab A210

PREREQUISITE(S)/COREQUISITE:

MA0100, or equivalent math placement test score

REQUIRED TEXT/RESOURCE MATERIALS:

Package of MA0110 modules, 2004

Scientific calculator, graph paper

CALENDAR DESCRIPTION:

This course first reviews number systems and then explores exponents, radicals, polynomials, probability, coordinate geometry, an introduction to functions, and trigonometry (including sine and cosine laws).

CREDIT/CONTACT HOURS:

MA 0110 Mathematics Grade 10 equivalent (Pure) 5 (5-0-0)

Time: 75 Hours

DELIVERY MODE:

MA0110 is a modularized math course consisting of 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 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, October 25.** 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 Friday, December 9.**

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.

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**

TRANSFERABILITY:

This course is listed in the Alberta Transfer Guide. It is accepted at colleges and universities in Alberta as equivalent to Math 10 Pure.

MA0110 Objectives/Tests/Exams

Module	TOPIC/DESCRIPTION	Recommended Time & Test Date	Date written	Your mark
1	Review	Sept. 15 Thursday		
2	Polynomials - evaluating polynomials; - four basic operations	Sept. 27 Tuesday		
3	Factoring - common factors, trinomials and difference of squares; solving by factoring	Oct. 4 Tuesday		
4	Radicals & Exponents -simplifying radicals, four basic operations with radicals, rationalize denominators, and rational exponents	Oct. 13 Thursday		
5	Probability	Oct. 20 Thursday		
	MIDTERM - must be written on or before	**Tuesday Oct. 25**		
6	Co-ordinate Geometry I - Line Segments - distance between points, midpoints, slope, parallel and perpendicular line segments	Nov. 3 Thursday		
7	Co-ordinate Geometry II - The Straight Line - rectangular co-ordinate system, equations of lines, graphing linear equations and inequalities	Nov. 17 Thursday		
8	Introductions to Relations and Functions -relations, functions, evaluating functions, linear functions, direct variation	Nov. 24 Thursday		
9	Trigonometry - Pythagorean Theorem, sin, cos, tan, applications	Dec. 6 Tuesday		
	FINAL EXAM - 3 HOURS	**T.B.A**. (Dec. 12-21)		

Fall 2011 Night Class Schedule

	MA0110
Sept 8 Th	M1 Ex 1-5
Sept 13 Tu	M1 Ex 6-8
Sept 15 Th	M1 Rev, Test 1 M2 Ex 1-2
Sept 20 Tu	M2 Ex 3-7
Sept 22 Th	M2 Ex 8-9, Rev
Sept 27 Tu	Test 2 M3 Ex 1-3
Sept 29 Th	M3 Ex 4-6, Review
Oct 4 Tu	Test 3 M4 Ex 1-2
Oct 6 Th	M4 Ex 3-7
Oct 11 Tu	M4 Ex 8-9, Rev
Oct 13 Th	Test 4 M5 Ex 1-2
Oct 18 Tu	M5 Ex 3-4, Rev
Oct 20 Th	Test 5 MT Review
Oct 25 Tu	**MIDTERM** M6 Ex 1-3
Oct 27 Th	M6 Ex 4-5
Nov 1 Tu	M6 Ex 6, Rev
Nov 3 Th	Test 6 M7 Ex 1
Nov 8 Tu	M7 Ex 2-4
Nov 10 Th	M7 Ex 5-6
Nov 15 Tu	M7 Rev Test 7
Nov 17 Th	M8 Ex 1-2
Nov 22 Tu	M8 Ex 3-5
Nov 24 Th	M8 Rev, Test 8
Nov 29 Tu	M9 Ex 1-3
Dec 1 Th	M9 Ex 4-6
Dec 6 Tu	M9 Rev, Test 9
Dec 8 Th	Final Review

FINAL EXAMS TO BE ANNOUNCED (December 12-21)

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.