



DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – FALL 2010

INTRODUCTION TO MATH 0090

INSTRUCTOR: Sukhvir Sandhu **PHONE:** (780) 539-2810 or 2234

OFFICE: Math Lab A210 **E-MAIL:** ssandhu@gprc.ab.ca

OFFICE HOURS: Tuesday & Thursday 10:00 -11:20; daily 2:00 – 2:30 pm

PREREQUISITE(S)/COREQUISITE:

MA0080, or equivalent math placement test score

REQUIRED TEXT/RESOURCE MATERIALS:

Package of MA0090 modules, Updated 2005

Scientific calculator, graph paper

CALENDAR DESCRIPTION:

This course is an individualized program of study which covers whole numbers, fractions, decimals, integers, percent, and an introduction to algebra, geometry, graphing, and statistics.

CREDIT/CONTACT HOURS:

MA 0090 Basic Mathematics III 5 (5-0-0)

Time: 75 Hours

DELIVERY MODE:

This course is 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 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 four modules, must be written by **Friday, October 15**. 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 Tuesday, December 7.**

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

Objectives / Tests / Exams

Module	TOPIC/DESCRIPTION	Recommended Time & Test Date	Date written	Your Mark
1	Basic Arithmetic -four basic operations with whole numbers, decimals & fractions; place value - complex fractions and applications	8 days Sept. 14 Tuesday		
2	Integers -four basic operations, exponents -order of operations	9 days Sept. 27 Monday		
3	Introduction to Algebra -basic algebraic concepts -evaluating expressions	5 days Oct. 4 Monday		
4	Equations -solving simple linear equations	6 days Oct. 13 Wednesday		
	MIDTERM must be written on or before	Friday Oct. 15		
5	Percent -changing percent to decimals & fractions -changing decimals and fractions to percent -the percent proportion	8 days Oct. 27 Wednesday		
6	Language of Geometry -plane geometry & metric review	7 days Nov. 5 Friday		
7	Dimensional Geometry -perimeter, area, volume, and surface area	8 days Nov. 19 Friday		
8	Intro to Graphing	4 days Nov. 25 Thursday		
9	Statistics -organize data, graphs -measures of central tendency	8 days Dec. 7 Tuesday		
	FINAL EXAM - 3 HOURS	TBA (Dec. 9-18)		

In Math 0090, a calculator WILL NOT BE USED until after the midterm

**MA0090 FALL 2010
Homework Schedule**

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|--|----------------------------|
| 1. Basic Arithmetic
1&2 3&4 5&6 6&7 8 9&10 Review
Sept.2 3 7 8 9 10 13 | Test: Tue. Sept. 14 |
| 2. Integers
1 2 3 4 5&6 7 8 Review
Sept.15 16 17 20 21 22 23 24 | Test: Mon. Sept.27 |
| 3. Introduction to Algebra
1&2 3 4 Review
Sept.28 29 30 Oct. 1 | Test: Mon. Oct. 4 |
| 4. Equations
1&2 3 4 5 Review
Oct.5 6 7 8 12 | Test: Wed. Oct. 13 |
| Midterm Exam on Friday Oct. 15 | |
| 5. Percent
1-3 4&5 6&7 8 9 10 Review
Oct.18 19 20 21 22 25 26 | Test: Wed. Oct. 27 |
| 6. Language of Geometry
1 2 3 4&5 6 Review
Oct.28 29 Nov.1 2 3 4 | Test: Fri. Nov. 5 |
| 7. Dimensional Geometry
1 2 3 4 5 6 Review
Nov.8 9 10 15 16 17 18 | Test: Fri. Nov. 19 |
| 8. Introduction to Graphing
1&2 3&4 Review
Nov.22 23 24 | Test: Thur. Nov.25 |
| 9. Statistics
1&2 3&4 5&6 7 8 9 Review
Nov.26 29 30 Dec.1 2 3 6 | Test: Tues. Dec. 7 |

Final exam to be announced (December 9 – 18)

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.