



**DEPARTMENT OF ACADEMIC UPGRADING**  
**COURSE OUTLINE – SPRING 2020**  
**MA0081 (A4) - Basic Mathematics II - 5 (0-0-7.5) HS 112.5 Hours**  
**for 7.5 Weeks**

**INSTRUCTOR:** Reddy Ganta                      **PHONE:** (780) 539-2810 or 2850

**OFFICE:** Virtual                                      **E-MAIL:** RGanta@gprc.ab.ca

**OFFICE HOURS:** Monday and Tuesday 11:00 – 12:30

**CALENDAR DESCRIPTION:**

This course is a modularized program of study which covers whole numbers, decimals, fractions, integers, introduction to algebra, and introduction to equations, metric measurement, dimensional geometry, and problem solving.

**PREREQUISITE(S)/COREQUISITE:**

MA0060 or equivalent math placement test score

**REQUIRED TEXT/RESOURCE MATERIALS:**

Textbook: Package of MA0081 modules, 2017;  
Scientific calculator, Computer with internet access, Printer and Scanner.

**DELIVERY MODE:** Students will join the class on Zoom as this course will be delivered online due to the COVID-19 Pandemic. MA0081 is a modularized math course 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 each module. Check your work often to make sure you understand each topic. The key to success in working with modules is to ask questions whenever you have difficulty understanding instructions, the examples, or the exercises. **Do not hesitate to ask for help.**

- **Module tests must be written as listed on page 5.** You must revise and review the material thoroughly before taking Module test(s) / exam. When writing a test, be sure to show all your work on the test paper. Marks are given for the method as well as the final answer. Even though 50% is a passing mark, a mark of **at least 60% in any section(s) test** is recommended.
- **One lowest test mark out of 5 test marks will be ignored. Best 4 test marks out of 5 test marks will be used for the final grade.**
- Upon completion of the first four modules, a midterm test will be written on Monday, **May 25**. Upon completion of all nine sections, you will write a final exam on Friday, **June 26**. Be sure to leave time to prepare for this important exam! It is worth a large percentage of your final grade.
- **Consult your instructor immediately if you find yourself falling behind schedule.**

## **COURSE OBJECTIVES:**

This course introduces students to:

- Order of operations using whole numbers and decimals
- the concept of fraction and the related terminology
- basic operations using fractions and order of operations with fractions
- the concept of integers, basic operations using integers, and order of operations with integers
- the concept of phrases for a mathematical expression
- the concept of like terms, unlike terms, and collection them in an expression
- the steps to solve an equation and use of equations in real life word problems
- metric system of mass, distance, and volume and its conversion
- the concept of perimeter, area and volume, and its use in real life situation

**COURSE OUTCOME:**

As a result of taking this course, students will gain the ability to:

- Simplify whole number and decimal expressions using the rules for order of operations
- Verify whether the fractions in a pair are equivalent
- Arrange a list of fractions in order of smallest to largest or vice versa
- Simplify complex fractions with basic operations in the numerator and/or denominator
- Solve real-life problems with fractions
- Evaluate integral expressions in which order of performing operations must be determined
- Identify the like terms of an expression and simplify the expression by collecting the like terms
- Solve equations using additive inverse and/or the division or multiplication property
- Solve real life word problems involving metric units, time, or temperature
- Find the perimeter and area of general and complex shapes
- Find the volume and surface area of basic pyramids and prisms

**TRANSFERABILITY: N/A**

**GRADING CRITERIA:**

<b>GRANDE PRAIRIE REGIONAL COLLEGE</b>			
<b>GRADING CONVERSION CHART</b>			
<b>Alpha Grade</b>	<b>4-point Equivalent</b>	<b>Percentage of Class</b>	<b>Designation</b>
<b>A<sup>+</sup></b>	<b>4.0</b>	<b>90 - 100</b>	<b>EXCELLENT</b>
<b>A</b>	<b>4.0</b>	<b>85 - 89</b>	
<b>A<sup>-</sup></b>	<b>3.7</b>	<b>80 - 84</b>	<b>FIRST CLASS STANDING</b>
<b>B<sup>+</sup></b>	<b>3.3</b>	<b>77 - 79</b>	
<b>B</b>	<b>3.0</b>	<b>73 - 76</b>	<b>GOOD</b>
<b>B<sup>-</sup></b>	<b>2.7</b>	<b>70 - 72</b>	
<b>C<sup>+</sup></b>	<b>2.3</b>	<b>67 - 69</b>	<b>SATISFACTORY</b>
<b>C</b>	<b>2.0</b>	<b>63 - 66</b>	
<b>C<sup>-</sup></b>	<b>1.7</b>	<b>60 - 62</b>	
<b>D<sup>+</sup></b>	<b>1.3</b>	<b>55 - 59</b>	<b>MINIMAL PASS</b>
<b>D</b>	<b>1.0</b>	<b>50 - 54</b>	
<b>F</b>	<b>0.0</b>	<b>0 - 49</b>	<b>FAIL</b>
<b>WF</b>	<b>0.0</b>	<b>0</b>	<b>FAIL, withdrawal after the deadline</b>

How to use a module:

1. Read the title of each module, table of contents page, and title of each section. You will observe a progressive growth of operations/concepts.
2. Read and thoroughly understand the concepts and terminology of a section.
3. Understand and do each example very carefully using the terminology.  
***If difficulties arise, discuss with your instructor.***
4. Match each question in an exercise with the corresponding examples before the exercise.
5. Attempt the exercise questions and check the answers before moving on to the next section. ***If difficulties arise, discuss with your instructor.***
6. Review the terminology of the module(s) before taking any test/exam.

**EVALUATION CRITERIA:**

**Your final mark is determined by:**

4 Module Tests	40 %
Midterm	20%
Final Exam	40 %

## Test Schedule for Spring 2020

### Topics / Tests / Exams

Test #	% towards the Final Exam	Topics	Recommended Test Date	Date Written	Mark Obtained
1	10%	Whole Numbers & Decimals	May 12 Tuesday		
2	10%	Intro to Fractions & Operations With Fractions	May 21 Thursday		
<b>Midterm</b>	<b>30%</b>	<b>All the above</b>	<b>May 25 Monday</b>		
3	10%	Intro to Integers & Intro to Algebra	June 2 Tuesday		
4	10%%	Intro to Equations & Measurements	June 12 Friday		
5	10%	Dimensional Geometry	June 22 Monday		
<b>Final</b>	<b>40%</b>		<b>June 26 Friday</b>		

## **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. Please mute your mike when you are not talking during the class.
2. 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.
3. Students must actively communicate with their instructor. If you have questions or concerns throughout the course, please send an email or call.

## **ELECTRONIC DEVICES:**

No unspecified electronic devices will be allowed in exams.

## **STATEMENT ON PLAGIARISM AND CHEATING**

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at [www.gprc.ab.ca/about/administration/policies/\\*\\*](http://www.gprc.ab.ca/about/administration/policies/**)

\*\*Note: All Academic and Administrative policies are available on the same page.

## **STUDENT PRINTING POLICY: N/A**