



DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – WINTER 2018

MA0060 (A3) - BASIC MATHEMATICS I - 5 (0-0-7.5) HS 112.5 hours for 15 Weeks

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

OFFICE: A205 or B301B **E-MAIL:** ssandhu@gprc.ab.ca

OFFICE HOURS: TBA

CALENDAR DESCRIPTION:

This course is a modularized program of study which covers a review of reading, writing and rounding of whole numbers, if required, as well as whole number multiplication and division. Problem-solving is emphasized throughout, and squares, square roots, and the order of operations are introduced.

PREREQUISITE(S)/COREQUISITE:

Appropriate math placement test score and EN0080 placement

REQUIRED TEXT/RESOURCE MATERIALS:

Text Book: STEPPING IT UP Preparing for College Math Basic Mathematics I MA0060;
Loose leaf paper or note book; a pencil, an eraser, a geometry set.

DELIVERY MODE:

- MA0060 is a modularized math course. The topic of Whole Numbers is divided in the text book into 8 separate parts called sections. Each new section is emphasized with a blue strip. At the end of each section, there is an exercise or set of practice problems. The answers to the practice problems are at the end of the book. Each section is further divided into sub-sections which are numbered in green circles. The name of the each sub-section is written in black.

- The instructions for each sub-section are clearly presented followed by several examples along with colored-notes for emphasis. Study the instructions and work through the examples before starting the assigned questions from the exercise. Check your work often to make sure you understand each new topic. The key to success in working with these sections is to ask questions whenever you have difficulty understanding the instructions, the examples, or the exercise questions. **Do not hesitate to ask for help.**
- **The use of a calculator is not allowed.**
- **Consult your instructor immediately if you find yourself falling behind schedule.** Your instructor may ask you to spend more time in the Math Lab and get help often

COURSE OBJECTIVES:

The Course introduces students to:

- The concept of whole numbers
- Arithmetic manipulation of numbers
- The concept of expression, exponents, and order of operations
- Problem-solving skills and the application of numbers

LEARNING OUTCOMES:

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

- Write and read standard numbers in expanded or word form
- Add several single-digit or several-digit numbers
- Identify the associative & commutative property and zero identity of addition
- Subtract whole numbers when borrowing is necessary or not necessary
- Verify the answer to a subtraction problem
- Multiply a several-digit number by a single-digit or a several-digit number
- Perform division by a one-digit or two or more digit number
- Use multiplication to verify a division answer
- Perform several arithmetic operations in the proper order
- Apply arithmetic manipulation (+, -, ×, ÷) to real-life situations
- Use estimation skills to answer to real-life situations

TRANSFERABILITY: N/A

EVALUATIONS:

- **Section tests must be written as listed on page 6.**
- Follow these dates as closely as you can. You must revise and review the material thoroughly before taking section(s) test/exam.
- Each test must be **written no later than 3 class days** after the recommended date on page 6.
- You are encouraged to write a test early or on time if you are prepared.
- When writing a test, be sure to show all of 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 mark will be used for the final grade.**
- Upon completion of the first five sections, a midterm test will be written on or before **Wednesday, 28th of Feb.** If you miss this date, you will receive a mark of 0% on your midterm.
- Upon completion of all eight sections, you will write a three hour final exam, and is scheduled by the Students' Services Office during GPRC Exam weeks. Do not book vacation in this time-period.
- Be sure to leave time to prepare for this important exam! It is worth a large percentage of your final grade.
- **All tests must be written by Tuesday, 10th of April.**

Your final mark is determined by:

4 section tests	32 %
Midterm	28 %
Final Exam	40 %

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage of Class	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

How to use the book:

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, meet with your instructor.
4. Match each question in an exercise with the corresponding examples before the exercise. *If difficulties arise, return in your module and rework the examples.*
5. Attempt the exercise questions and check the answers before moving on to the next section. ***If difficulties arise, meet with your instructor.***
6. Review the terminology of the module(s) before taking any test/exam.

Test Schedule for Winter 2018

Topics / Tests / Exams

Test #	% towards the Final Exam	Topics	Recommended Test Date	Date written	Mark
1	8 %	Understanding Whole Numbers & Adding Whole Numbers	January 19 Friday		
2	8 %	Subtracting Whole Numbers Times tables from 0-12 Multiplying Whole Numbers	February 7 Wednesday		
3	8 %	Times tables from 0-12 & Dividing Whole Numbers	February 16 Friday		
	28 %	Midterm (Sections 1 – 5)	February 28 Wednesday		
4	8 %	Exponents & Order of Operations & Rounding and Estimating	March 23 Friday		
5	8 %	Solving Applied Problems Involving Whole Numbers	April 10 Tuesday		
	40 %	Final Exam (Sections 1 – 8)	To be announced (April 16 – 26)		

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 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/**

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

STUDENT PRINTING POLICY:

Please refer to the College website (Home > Tuition and Fees) for the printing policy which limits the free use of paper; extra charges will be applied if the limit is exceeded.