



**DEPARTMENT OF ACADEMIC UPGRADING**

**COURSE OUTLINE – FALL 2010**

**INTRODUCTION TO MATH 0060 (No Wednesday Class)**

**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:**

Appropriate math placement test score and **EN 0080** placement

**REQUIRED TEXT/RESOURCE MATERIALS:**

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

**CALENDAR DESCRIPTION:**

This course is an individualized program of study which covers a review of reading, writing, and rounding of whole numbers as well as addition, subtraction, multiplication, and division of whole number. Problem solving is emphasized throughout. Squares, square roots, and the order of operations are introduced.

**CREDIT/CONTACT HOURS:**

MA 0060 Basic Mathematics I 5 (5-0-0)

Time: 75 Hours

## **DELIVERY MODE:**

MA0060 is modularized math course. It is divided into 6 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 70% 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.

Upon completion of all the course modules, you will write a three hour final exam. Be sure to leave time to prepare for this important exam! It is worth a large percentage of your final grade.

The recommended test date for each module 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 Monday, 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:

6 module tests	60%
Final Exam	40%

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A <sup>+</sup>	4.0	90 – 100	EXCELLENT
A	4.0	85 – 89	
A <sup>-</sup>	3.7	80 – 84	FIRST CLASS STANDING
B <sup>+</sup>	3.3	77 – 79	
B	3.0	73 – 76	GOOD
B <sup>-</sup>	2.7	70 – 72	
C <sup>+</sup>	2.3	67 – 69	SATISFACTORY
C	2.0	63 – 66	
C <sup>-</sup>	1.7	60 – 62	
D <sup>+</sup>	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 / Examination

Module	Objectives / Topics	Recommended Time & Test Date	Date written	Mark
1A	Reading, Writing and Rounding Whole Numbers	8 days Sept. 16 Thursday		
1B	Addition of Whole Numbers	7 days Sept. 28 Tuesday		
1C	Subtraction of Whole Numbers	8 days Oct. 15 Friday		
1D	Multiplication of Whole Numbers	8 days Oct..29 Friday		
1E	Division of Whole Numbers	10 days Nov. 19 Friday		
1F	Exponents, Square Roots, Order of Operations, Problem Solving - All Topics	10 days Dec. 7 Tuesday		
	Final Exam (Modules 1A-1F)	<b>To be announced (Dec. 9 – 18)</b>		

## Homework Schedule

### 1A. Reading, Writing, and Rounding Whole Numbers

Exercise 1 & 2 & 3

Exercise 4 & 5 & 6

Quiz (page 20), Exercise 7

Extra Practice (pages 24 & 25), Exercise 8

More Practice (pages 30 & 31), Exercise 9

More Practice (page 37), Quiz (page 38)

Practice Test (pages 39 – 41)

**Module Test**

**Sept. 2**

**Sept. 3**

**Sept. 7**

**Sept. 9**

**Sept. 10**

**Sept. 13**

**Sept. 14**

**Sept. 16**

1B. Addition of Whole Numbers

Survey Test (page 1), Pre-Test (page 3), Exercise 1 & 2 & 3	<b>Sept. 16</b>
Exercise 4 & 5 & 6 Pre-Test (Page 14)	<b>Sept. 17</b>
Exercise 7 & 8 Quiz (Page 17), Exercise 9	<b>Sept. 20</b>
Exercise 10, Pre-Test (page 23), Exercise 11	<b>Sept. 21</b>
Exercise 12 & 13 Pre-Test (Page 26), Exercise 14 & 15	<b>Sept. 23</b>
More Practice (page 30 to 33), Quiz (33&34) Exercise 16	<b>Sept. 24</b>
Exercise 17 & 18	<b>Sept. 27</b>
<b>Module Test</b>	<b>Sept. 28</b>

1C. Subtraction of Whole Numbers.

Pre-Test (page 1), Exercise 1 & 2	<b>Sept. 28</b>
Exercise 3, More Practice (pages 6-8), Exercise 4	<b>Sept. 30</b>
Exercise 5 & 6	<b>Oct. 1</b>
Exercise 7, Pre-Test (page 19), Exercise 8 & 9	<b>Oct. 4</b>
Exercise 8 & 9	<b>Oct. 5</b>
Exercise 10 Quiz (page 25),	<b>Oct. 8</b>
Exercise 11 & 12	<b>Oct. 12</b>
Exercise 13 Post Test (Page 35)	<b>Oct. 14</b>
<b>Module Test</b>	<b>Oct. 15</b>

1D. Multiplication of Whole Numbers

Pre-Test (page 6 & 7), Exercise 1 & 2	<b>Oct. 15</b>
Exercise 3 & 4 & 5	<b>Oct. 18</b>
Pre-Test (page 19), Exercise 6 & 7 & 8	<b>Oct. 19</b>
Exercise 9 & 10 & 11	<b>Oct. 21</b>
Exercise 12 & 13 & 14	<b>Oct. 22</b>
Exercise 15 & 16	<b>Oct. 25</b>
Exercise 17 & 18 & 19	<b>Oct. 26</b>
Exercise 20 & 21	<b>Oct. 28</b>
<b>Module Test</b>	<b>Oct. 29</b>

1E. Division of Whole Numbers

Pre-Test (page 5), Practice (page 6), Exercise 2	<b>Oct. 29</b>
Exercise 3 & 4	<b>Nov. 1</b>
Exercise 5 & 6	<b>Nov. 2</b>
Exercise 7	<b>Nov. 4</b>
Exercise 8 & 9	<b>Nov. 5</b>
Exercise 10	<b>Nov. 8</b>
Exercise 11	<b>Nov. 9</b>
Exercise 12	<b>Nov. 15</b>
Exercise 13 & 14	<b>Nov. 16</b>
Exercise 15	<b>Nov. 18</b>
<b>Module Test</b>	<b>Nov. 19</b>

1F. Exponents, Square Roots, Order of Operations, Problem Solving – All Topics

Exercise 1 & 2	<b>Nov. 19</b>
Exercise 3 & 4	<b>Nov. 22</b>
Exercise 5 & 6	<b>Nov. 23</b>
Exercise 7 & 8	<b>Nov. 25</b>
Exercise 9 & 10	<b>Nov. 26</b>
Exercise 11 & 12	<b>Nov. 29</b>
Exercise 13 & 14	<b>Nov. 30</b>
Exercise 15 & 16	<b>Dec. 2</b>
Exercise 17 & 18	<b>Dec. 3</b>
Exercise 19 & 20	<b>Dec. 6</b>
<b>Module Test</b>	<b>Dec. 7</b>

**Final exam to be announced (December 9-18)**

# Homework Schedule

## 1. Whole Numbers

1-3	4&5	6&7	8&9	10&Review	<b>Test: Monday Sept. 13</b>
<b>Sept.2</b>	<b>3</b>	<b>7</b>	<b>9</b>	<b>10</b>	

## 2. Decimals

1	2&3	4	5	6	Review	<b>Test: Thursday Sept.23</b>
<b>Sept.13</b>	<b>14</b>	<b>16</b>	<b>17</b>	<b>20</b>	<b>21</b>	

## 3. Introduction to Fractions

1	2-4	5&6	7&8	9&10	Review	<b>Test: Monday Oct. 4</b>
<b>Sept.23</b>	<b>24</b>	<b>27</b>	<b>28</b>	<b>30</b>	<b>Oct.1</b>	

## 4. Operations of Fractions

1&2	3	4&5	6&7	8	9	Review	<b>Test: Tuesday Oct. 19</b>
<b>Oct.5</b>	<b>7</b>	<b>8</b>	<b>12</b>	<b>14</b>	<b>15</b>	<b>18</b>	

# Midterm Exam on Thursday Oct. 21

## 5. Measurement

1	2&3	4&5	6&7	8	Review	<b>Test: Monday Nov. 1</b>
<b>Oct.21</b>	<b>22</b>	<b>25</b>	<b>26</b>	<b>28</b>	<b>29</b>	

## 6. Geometry

1	2&3	4&5	6&7	8&9	10&11	Review	<b>Test: Tuesday Nov. 16</b>
<b>Nov.1</b>	<b>2</b>	<b>4</b>	<b>5</b>	<b>8</b>	<b>9</b>	<b>15</b>	

## 7. Ratio and Proportion

1-3	4	5-7	8	9&10	11	Review	<b>Test: Monday Nov. 29</b>
<b>Nov.16</b>	<b>18</b>	<b>19</b>	<b>22</b>	<b>23</b>	<b>25</b>	<b>26</b>	

## 8. Statistics

1	2&3	4	5&Review	<b>Test: Monday Dec. 6</b>
<b>Nov.29</b>	<b>30</b>	<b>Dec2</b>	<b>3</b>	

**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.

## **ELECTORIC 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.