



**DEPARTMENT OF ACADEMIC UPGRADING**

**COURSE OUTLINE – SPRING 2012**

**INTRODUCTION TO MATH 0110**

**INSTRUCTOR:** Aidarus Farah                      **PHONE:** (780) 539-2810  
**OFFICE:** Math Lab A210                      **E-MAIL:** afarah@gprc.ab.ca

**OFFICE HOURS:** Daily 10:30-11:00 am & 1:00-1:30 pm in the Math lab

**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 **Monday, May 28<sup>th</sup>**. 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 Wednesday, June 20<sup>th</sup>.**

### **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%

<b>GRANDE PRAIRIE REGIONAL COLLEGE</b>			
<b>GRADING CONVERSION CHART</b>			
<b>Alpha Grade</b>	<b>4-point Equivalent</b>	<b>Percentage Guidelines</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>

**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 Winter 2012 Objectives/Tests/Exams

Module	TOPIC/DESCRIPTION	Recommended Time & Test Date	Date written	Your mark
1	Review	3.5 days May 4 Friday		
2	Polynomials - evaluating polynomials; - four basic operations	3.5 days May 9 Wednesday		
3	Factoring - common factors, trinomials and difference of squares; solving by factoring	3 days May 14 Monday		
4	Radicals & Exponents -simplifying radicals, four basic operations with radicals, rationalize denominators, and rational exponents	4 days May 18 Friday		
5	Probability	3 days May 24 Thursday		
	<b>MIDTERM - must be written on or before</b>	<b>Monday May 28</b>		
6	Co-ordinate Geometry I - Line Segments - distance between points, midpoints, slope, parallel and perpendicular line segments	3.5 days June 1 Friday		
7	Co-ordinate Geometry II - The Straight Line - rectangular co-ordinate system, equations of lines, graphing linear equations and inequalities	3.5 days June 6 Wednesday		
8	Introductions to Relations and Functions -relations, functions, evaluating functions, linear functions, direct variation	5 days June 13 Wednesday		
9	Trigonometry - Pythagorean Theorem, sin, cos, tan, applications	5 days June 20 Wednesday		
	<b>FINAL EXAM - 3 HOURS</b>	<b>Monday June 25 9am to 12pm</b>		

**MA0110 spring 2012**

**MAY 2012**

<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
/	<b>1</b> Module 1 Sections 1-4	<b>2</b> Module 1 Sections 5-7	<b>3</b> Module 1 Sections 8 & Review	<b>4</b> Module 1 <b>Test 1</b> Module 2 Sections 1-3
<b>7</b> Module 2 Sections 4-6	<b>8</b> Module 2 Sections 7-9	<b>9</b> Module 2 Review & <b>Test 2</b>	<b>10</b> Module 3 Sections 1-3	<b>11</b> Module 3 Sections 4-6
<b>14</b> Module 3 Review & <b>Test 3</b>	<b>15</b> Module 4 Sections 1-4	<b>16</b> Module 4 Sections 5&6	<b>17</b> Module 4 Sections 7-9	<b>18</b> Module 4 Review & <b>Test 4</b>
/	<b>22</b> Module 5 Sections 1&2	<b>23</b> Module 5 Sections 3&4	<b>24</b> Module 5 Review & <b>Test 5</b>	<b>25</b> Midterm Review
<b>21</b> No classes <b>Victoria Day</b>				
<b>28</b> <b>Midterm Exam</b> 9am to 12pm	<b>29</b> Module 6 Sections 1-3	<b>30</b> Module 6 Sections 4&5	<b>31</b> Module 6 Sections 6 & Review	

**June 2012**

<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
/	/	/	/	<b>1</b> Module 6 <b>Test 6</b> Module 7 Sections 1&2
<b>4</b> Module 7 Sections 3&4	<b>5</b> Module 7 Sections 5&6	<b>6</b> Module 7 Review & <b>Test 7</b>	<b>7</b> Module 8 Section 1&2	<b>8</b> Module 8 Section 3&4
<b>11</b> Module 8 Sections 5	<b>12</b> Module 8 Review	<b>13</b> Module 8 <b>Test 8</b>	<b>14</b> Module 9 Sections 1&2	<b>15</b> Module 10 Sections 3&4
<b>18</b> Module 10 Sections 5	<b>19</b> Module 10 Section 6	<b>20</b> Module 9 Review & <b>Test 9</b>	<b>21</b> Final Review	<b>22</b> Final Review
<b>25</b> <b>Final Exam</b>	/	/	/	/
	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</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. 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.