

COURSE OUTLINE – FALL 2009 (No Friday Class) INTRODUCTION TO MATH 0120

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Calendar Description:

MA 0120 Mathematics Grade 11 Equivalent (Pure) 5 (5-0-0) Time: 75 Hours Description: This course explores equations, inequalities, systems of equations, exponents and radicals, rational expressions and equations, polynomial functions and equations, other functions, geometry and mathematical reasoning, and mathematical applications.

Prerequisite: MA0110 or equivalent math placement test score.

Resource requirements:

Package of Ma0120 modules, 2007 Scientific calculator, graph paper

Attendance:

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 during class. Any student missing more than 8 classes may be debarred from writing the final exam.

Course Delivery and Evaluation:

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. As well, the instructor will teach a mini lesson daily to clarify the more difficult concepts and also to keep you on schedule.

The key to success 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 for the final answer. A passing mark of 50% is required. 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. Repeat tests must be written outside of class time.

A 50-minute midterm, which will cover the first five modules, must be written by **Thursday**, **October 22.** 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 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.

Your final mark is determined by:

9 module tests 45% Midterm 20% Final Exam 35%

Final grades are given as follows:

Alpha	4-Point	Percentage		
Grade	Equivalent	Guidelines	Designation	
			Excellent	
A+	4.0	90 - 100	_	
A	4.0	85 - 89		
A-	3.7	80 - 84	First Class Standing	
B+	3.3	76 - 79		
В	3.0	73 - 75	Good	
B-	2.7	70 - 72		
C+	2.3	67 - 69	Satisfactory	
С	2.0	64 - 66		
C-	1.7	60 - 63		
D+	1.3	55 - 59	Minimal Pass	
D	1.0	50 - 54		
F	0.0	0 - 49	Fail	

MA0120 – Fall 2009 (No Friday Class)

Module	TOPIC/DESCRIPTION	Test Date	Your mark
1	Equations and Inequalities -solving linear equations and inequalities -graphing linear equations and inequalities -absolute value equations and inequalities	5 days Sept. 14 Monday	
2	Systems of Equations - solving systems of equations by graphing, substitution, and elimination; applications	4 days Sept. 21 Monday	
3	Exponents and Radicals - rational exponents; four basic operations on exponents and radicals; solving radical equations	6 days Sept. 30 Wednesday	
4	Rational Expressions -non-permissible values; simplifying; four basic operations; equations	6 days Oct. 8 Thursday	
5	Geometry -basic theorems -circle terminology; properties of angles and chords in a circle; tangents to a circle	5 days Oct. 20 Tuesday	
	MIDTERM EXAM	Thursday Oct. 22	
6	Relations and Functions - domain and range; functional notation; graphing; inverse functions; transformations	6 days Nov. 3 Tuesday	
7	Quadratic Functions - graphing; completing the square; characteristics; applications	6 days Nov. 12 Thursday	
8	Quadratic Equations - solving by factoring and quadratic formula; nature of roots; applications	6 days Nov. 24 Tuesday	
9	Polynomial Functions & Equations - synthetic division - remainder & factor theorems; equations and graphs	7 days Dec. 7 Monday	
	Final Exam 3-hours (date to be announced)	Dec.09-18	

Fall 2009 Homework Schedule (No Friday Class)

1. Equations and Inequalities 1 - 3 4 & 5 6 Review Test: Monday Sept. 14 8 9 10 Sept.3 2. Systems of Equations. 2 & 3 4 5 & Review Test: Monday Sept. 21 15 16 **17** Sept.14 3. Exponents and Radicals 2&3 4&5 6&7 8&9 10 & Review Test: Wednesday Sept. 30 22 Sept.21 23 24 28 29 4. Rational Expressions 3 & 4 5 6 Review Test: Thursday Oct. 8 5 Sept.29 30 Oct.1 6 7 5. Geometry 1&2 3 Test: Tuesday Oct. 20 4 5 & 6 Review 13 14 19 Oct.8 15 Midterm Exam on Thursday Oct. 22 6. Relations and Function **Test: Tuesday Nov. 3** 1(A,B,C,D)2 3A 3B 4 & 5 Review Oct.22 26 27 28 29 Nov.2 7. Quadratic Functions 1&2 3&4 5 6& Review Test: Thursday Nov. 12 Nov.4 5 9 10 8. Quadratic Equations 1&2 3 5 Test: Tuesday Nov. 24 4 6&7 Review

Final Exam: (Dec. 9 - 18) to be announced

10 Review

3

Test: Take home.

Take after class on Dec.3.

23

2

Nov.12 16

Nov.24 25

1&2

9. Polynomial Functions

17

26

3&4 4-6

18

7

30

19

8&9

Dec.1

AUD STUDENT CLASSROOM DEPORTMENT GUIDELINES DRAFT May 2008

The Academic Upgrading Department is an adult education environment. Students are expected to show respect for each other as well as faculty and staff. They are expected to participate fully in achieving their educational goals in a timely manner.

Certain activities are disruptive and not conducive to an atmosphere of learning. In addition to the *Student Rights and Responsibilities* as set out in the College calendar, the following guidelines will maintain an effective learning environment for everyone. We ask the cooperation of all students in the following areas of classroom deportment.

- 1. Students are expected to turn off cell phones during class time or in labs.
- 2. Refrain from disruptive talking or socializing during class time.
- 3. Be respectful of others regarding food or beverages in the classroom. Clean up your eating area and dispose of garbage.
- 4. Recycle paper, bottles and cans in the appropriate containers.
- 5. Students are expected to be punctual. Arrive on time for classes and remain for the duration of scheduled classes or related activities.
- 6. Children are not permitted in the classrooms.
- 7. Students are expected to notify the instructor of any extenuating circumstances.

Electronic Devices

No unspecified electronic devices will be allowed in exams.

Success Standard

Although 50% is considered a pass in most courses, if you wish to be successful at the next level, we strongly recommend that you have a mark of 60% or better in your prerequisite courses.

Examinations:

The final exam will be 3 hours long and is scheduled by the Registrar's Office during December 9 – December 18.

Statement on Plagiarism:

The instructor reserves the right to use electronic plagiarism detection services.