

**MAYLAND COMMUNITY COLLEGE**

**MAT 070 Section 12**

**Introductory Algebra**

**4 Credit Hours 5 Contact Hours**

*Note: This is a developmental class. These hours do not count toward graduation and the grade you receive in this class is not calculated in your GPA*

**Fall 2007**

**Course Description**

This course establishes a foundation in algebraic concepts and problem solving. Topics include signed numbers, exponents, order of operations, simplifying expressions, solving linear equations and inequalities, graphing, formulas, polynomials, factoring, and elements of geometry. Upon completion, students should be able to apply the above concepts in problem solving using appropriate technology.

**Prerequisites:** MAT 060

**Corequisites:** RED 080

**Instructor Information**

**Instructor:** Paula Savich  
**Office Location:** Room 258  
**Telephone Number:** (828)765-7351 x265 or (800) 462-9526  
**E-mail Address:** [psavich@mayland.edu](mailto:psavich@mayland.edu)

**Office Hours:** 9:30 – 11:00 AM Tuesday - Thursday

**Course Information**

**Meeting Times and Location:** T-Th 2 – 4:20 PM Room 239

**Required Text(s):**

- Elementary Algebra 4<sup>th</sup> Edition by Ron Larson and Robert Hostetler, 2008 Houghton Mifflin
- MAT 070 Lab Pack (Available at the Mayland Bookstore)

**Required supplies:** A graphing calculator, preferably a TI-83 plus or a TI-84. You should bring a notebook, graph paper, ruler, pencils and erasers to class every day.

**Course Objectives**

1. Develop Problem-solving strategies using the techniques of algebra
2. Learn how to use technology appropriately and effectively
3. Learn to communicate mathematical ideas both orally and in writing.

**Competencies:**

1. *Operations with Real numbers*
2. *Exponents and the Order of Operations Agreement*
3. *Evaluating and Simplifying Variable Expressions*
4. *Solving Equations and Inequalities*
5. *Solving Applied Problems*
6. *The Rectangular Coordinate System and Graphing*
7. *Operations with Polynomials*
8. *Scientific Notation*
9. *Factoring Polynomials*

**Attendance Policy/Tardiness/Make-Up Work:**

Roll will be taken and you are expected to be in class each time it meets. If you must miss a class, you are responsible for obtaining notes, arranging for help on any material that you do not understand, and for turning any work due in a timely manner. *If you accumulate 6 consecutive absences without*

contacting me to arrange to make up missed work, you will be dropped from the class. Your grade will depend on your grade at the time you are dropped, taking into account zeros for missing assignments.

**Making up Class Time:** You can make up absences by spending time in the skills lab, in my office during office hours or by spending documented time with an approved tutor. Six or more absences, not made up, will result in a failing grade.

**Making up Tests:** Tests may be made up during my office hours or in the skills lab. Tests must be made up within one week of returning to class. Make up tests will not be given without a valid excuse for missing class on test day.

**Grading Criteria/Tests/Projects:**

Labs and group work	15%
Portfolio	10%
Quizzes	20%
Chapter Tests (100 Points Each)	40%
Comprehensive Final	15%

**Portfolio:** You will prepare a portfolio for this class. The grade for your portfolio will be determined as follows:

Lab activities	100 points
Tests and Test corrections	50 points
Homework	50 points
Overall Appearance and Organization	<u>100 points</u>
<b>Total</b>	<b>300 points</b>

**Homework:**

Homework will be kept in a notebook to be included in your portfolio. We will go over any questions on the homework at each class session. There will be a quiz based on the homework at each class meeting, with the exception of test days. You must bring your homework notebook on test days. If your homework is complete, you will receive points back for your test corrections.

**Test Corrections:** For any test that you receive a grade below 85 you must write test corrections. If you receive a grade of 85 or higher test corrections are optional. If your homework is complete, you will receive points back on your test grade for your test corrections.

**Test corrections consist of, on a separate sheet of paper:** for each problem missed:

1. rework the problems missed,
2. write an explanation, in complete sentences, of why you missed the problem and the correct method for working the problem and
3. find a similar problem in the exercises in the book and work that problem.

*Test corrections must be turned in along with the original test within one week of the date I give the tests back.*

You may receive help with test corrections from the skills lab, an approved tutor, or from me during my office hours. Test Corrections will be included in your portfolio.

**Comprehensive Final :** You must receive a grade of 70% or above on the comprehensive final in order to pass this class.

**Grading Scale:**

- A = 93-100
- B = 85 – 92
- C = 77 - 84
- F = 76 or below

**Inclement Weather Procedures:**

If Mayland Community College is on a delay schedule due to inclement weather, this class will meet from 2:30 – 4:10 PM. Delays are announced on the local radio stations in each county. If you live where you cannot receive the local radio station, there will also be a recorded message at the Mayland phone number and a posting on the Mayland website. If none of these methods are acceptable for you, see me, and I will arrange a way to notify you of delays or cancellations. If classes are not cancelled or delayed and you feel it is unsafe to travel because of road conditions: *You are not expected to risk injury attempting to attend class. Let me know by phone or email and arrangements will be made for you to make up any missed work, without grade penalty.*

**Academic Standards/Student Expectations/Ethics:**

Anyone caught giving or receiving assistance on a test will be given a zero for that test. Instances of academic dishonesty will be reported to the Office of the Vice President of Instructional Services, repeat offenses will have serious consequences, up to expulsion.

**Withdrawal Dates:**

**Fall 2007**

September 25 End of Unconditional Withdrawal

November 1 End of Conditional Withdraw

**Administrative Withdrawal statement:** If a student has not been in contact with the instructor and has not attended class for a consecutive two-week period, an administrative withdrawal will be submitted by the instructor.

**ADA statement: Any student requesting special accommodations for this course due to a disability should apply for services through the SOAR Office or the Counseling Center, which will document the disability. A counselor will then help determine which accommodations, if any, the student needs for success in this course.**

**Course Outline/Weekly Topics**

<b>Dates</b>	<b>Assignment</b>	<b>Quiz</b>
August 21	<b>1.1:</b> 1 – 57 every other odd, 59 – 67 odd	August 23
August 21	<b>1.2:</b> 1 – 77 every other odd, 91 – 101 odd	August 23
August 23	<b>1.3:</b> 1 – 97 every other odd, 99 – 102 all, 103 – 113 odd	August 28
August 23	<b>1.4:</b> 1 – 145 every other odd, 149 – 163 odd	August 28
August 28	<b>1.5:</b> 1 – 73 every other odd, 75 – 111 odd, 121 – 129 odd	
August 30	Test on Chapter 1	
September 4	<b>2.1:</b> 1 - 81 every other odd, 83, 85	September 6
September 4	<b>2.2:</b> 1 – 93 every other odd, 101 – 149 every other odd, 151 – 157 odd	September 11
September 6	<b>2.3:</b> 1 – 89 every other odd	September 11
September 11	<b>2.4:</b> 1 – 73 every other odd	September 13
September 13	<b>3.1:</b> 1 – 73 every other odd	September 18
September 18	<b>3.2:</b> 1 – 81 every other odd	September 20
September 20	<b>3.3:</b> 1 – 101 every other odd, 103	September 25
September 25	<b>3.4:</b> 1 – 85 every other odd	September 27
September 27	<b>3.5:</b> 1 – 77 every other odd	October 2
October 2	<b>3.6:</b> 1 – 81 every other odd	October 4
October 4	<b>Review</b>	
October 11	Test Chapters 2 and 3	

October 16 October 16	<b>4.1:</b> 1 – 73 every other odd, 75, 76 <b>4.2 :</b> 1 – 8 all, 9 – 73 every other odd, 77 – 80 all, 81, 83, 85	October 18 October 18
October 18 October 23 October 25	<b>4.3</b> 1 – 97 every other odd <b>4.4</b> 1 – 105 every other odd, 107 <b>4.5</b> 1 – 69 every other odd	October 23 October 25 October 30
October 30 November 1	<b>5.1</b> 1 – 189 every other odd <b>5.2</b> 1 – 101 every other odd	November 1 November 6
November 6 November 8	<b>5.3</b> 1 – 129 every other odd <b>5.4</b> 1 – 73 every other odd	November 8 November 13
November 13 November 15 November 20	<b>Review</b> <b>Test Chapters 4 and 5</b> <b>6.1:</b> 1 – 117 every other odd	November 27
November 27 November 29 November 29	<b>6.2 :</b> 1 – 85 every other odd <b>6.3 :</b> 1 – 113 every other odd <b>6.4 :</b> 1 – 129 every other odd	November 29 December 4 December 4
December 4 December 6 December 11	<b>6.5 :</b> 1 – 97 every other odd Review Review	December 6
December 13	Final Exam	