

MAYLAND COMMUNITY COLLEGE
Welcomes You To:

MAT 070 Section 95
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 2006

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 Schlesinger
Office Location: Room 258
Telephone Number: (828)765-7351 x265 or (800) 462-9526
E-mail Address: pschlesinger@mayland.edu

Office Hours: 9:30 – 10:30 AM Tuesday - Thursday

Course Information

MWF 8:00 – 9:25 AM Room 239

Required Text(s):

- Elementary Algebra: Graphs and Models by Marvin Bittinger, David Ellenbogen and Barbara Johnson, Pearson Addison-Wesley copyright 2005 ISBN 0-321-18618-4
- 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. If this happens, you will receive a grade of WF for the class.*

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	5%
Homework /Journal	25%
Quizzes	15%
Chapter Tests (100 Points Each)	40%
Comprehensive Final	15%

Journal:

To prepare for each class, read the section we will be covering. Have a fresh piece of loose-leaf paper and pen or pencil available. On the paper, write the section number at the top of the page. When you come to an example, you will write the example with the solution and explanation provided in the textbook. Try to explain in your own words the “why” of the method used to solve the example problem. Then find a similar problem in the homework exercises and solve that problem using the same method. If you do not understand the example, make a note and ask about it at the beginning of class. You can also write comments about your feelings about the problems, whether you find them difficult or easy, frustrating, enjoyable or boring. After each example, leave space for notes you will take in class. As we go over the material in class, you will add your notes from class. You will keep these pages in a three-ring binder. After we have covered the material in class, you will work every other odd numbered problem in the exercise set for each section, excluding those problems designated TW, Skill Maintenance and Synthesis. Check your answers in the back of the book. These problems will be kept in your journal. Journals will be checked on test days. You will receive 10 points for each section that is complete in your journal.

Homework:

Homework is due the second class session after it is assigned. This gives students a chance to ask questions in class after having attempted the problems. You must show all work to get credit for homework. *Make your reasoning transparent. I want to know how you arrived at your answer.* Many of the homework items are writing questions. Please use good grammar, correct mathematical terminology and complete sentences in answering these questions. If your homework is illegible or you have not shown your work, I will give it back to you to be redone. After homework has been graded and returned, keep it in your journal, with the appropriate section.

Quizzes: There will be regular quizzes on the skills covered in the exercise sets for each section.

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. You will not be

allowed to retake any test unless you have turned in test corrections and received a grade of at least 95 on 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.

If you do all three for each problem missed, you will receive a grade on your test corrections, which will be part of your homework grade. *Test corrections must be turned in along with the original test within one week of the date I give the tests back.* If you turn in your test corrections on time and receive a grade of at least 95 on your test corrections, you will be allowed to take a make-up test in the math skills lab.

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 journal.

Students who fail a test: will be required to meet with the instructor to discuss a success plan. You will need to bring your Tracking Form and appropriate documentation to this meeting. Tracking Forms will be discussed the first day of class.

Comprehensive Final : You must receive a grade of 77% 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 10 – 11:00 AM. 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 2006

September 22 End of Unconditional Withdrawal

October 30 End of Conditional Withdrawal

The following 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.

The following 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

Dates	Assignment	Due date
August 21	1.1: 6, 16, 64, 68, 69 76, 78	August 25
August 21	1.2: 34, 64, 71, 72, 76	August 25
August 23	1.3: 4, 18, 52, 66, 70, 80, 90, 93	August 28
August 25	1.4: 38, 40, 42, 77, 78, 79	August 30
August 28	1.5: 46, 54, 60, 77, 78, 86	
August 28	1.6: 28, 98, 124, 128, 132, 136	September 1
August 30	1.7 64, 68, 78, 125, 126	September 6
September 1	1.8: 50, 64, 66, 80, 116, 120	Test on Chapter 1 9/6
September 8	2.1: 28, 40, 52, 70, 74, 79	September 13
September 11	2.2: 56, 80, 86, 100, 118, 122	September 15
September 13	2.3: 2, 4, 6, 8, 18	September 18
September 15	2.4: 44, 46, 48, 50, 56. 58. 60, 66	September 20
September 18	2.5: 6, 10, 14, 18, 22, 26, 30, 38, 42, 44	September 22
September 20	2.6: 4, 12, 20, 22, 60, 86, 94	September 25
September 20	2.7: 12, 16, 20, 28, 38, 46, 52, 56	Test on Chapter 2 9/25
September 27	3.1 10, 12, 16, 18, 50, 64	October 2
September 29	3.2 24, 38, 62, 78	October 4
October 2	3.3 16, 24, 40, 42, 56	October 6
October 4	3.4 8, 38, 56, 66, 68, 81, 82	October 11
October 6	3.5 2, 8, 14, 24, 32, 40	October 13
October 11	3.6 4, 14, 26, 20, 28, 39, 42, 56, 61	October 16
October 13	3.7 10, 22, 28, 56, 62, 64, 70, 74, 94	October 18
October 16	3.8 14, 20, 22, 64, 68, 70, 74, 84	October 20
		Test on Ch 3 10/20
October 23	5.1 81, 89, 90, 91, 92	October 27
October 25	5.2 60, 68, 76, 94	October 20
October 27	5.3 52, 56, 60, 62, 66, 68, 80	November 1
October 30	5.4 68, 70, 71, 72, 80	November 3
November 1	5.5 86, 94, 98, 104, 111, 114, 116	November 6
November 3	5.6 10, 62, 64, 74, 76, 86, 92	November 8
November 6	5.7 14, 22, 34, 26, 36	November 13
November 8	5.8 72, 86, 122, 126, 127, 144, 146, 149	November 15
		Test on Ch 5 11/15
November 17	6.1 24, 28, 44, 48, 71	November 22
November 20	6.2 20, 48, 58, 60, 70, 78. 86	November 27
November 22	6.3 20, 30, 40, 50, 60, 78, 79, 80	November 29
November 27	6.4 36, 50, 52, 87, 88	December 1
November 29	6.5 18, 40, 64, 72	December 4
December 1	6.6 6, 48, 50, 54, 56, 60, 64	December 6
		Test on Ch 6 12/6
December 4	6.7 4, 6, 10, 12, 16, 20, 24, 26, 30, 32, 34, 36, 58	Portfolios Due 12/8
		Final Exam December 13

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