

**MAYLAND COMMUNITY COLLEGE**

**Welcomes You To:**

**MAT 080.11 Intermediate Algebra**

**4 Credit hours – 5 contact hours**

**Fall 2007**

**Note:** THESE HOURS **DO NOT** COUNT AS COLLEGE CREDIT TOWARD GRADUATION NOR ARE THEY USED IN CALCULATING YOUR GPA.

**Course Description:**

This course continues the study of algebraic concepts with emphasis on applications. Topics include factoring; rational expressions; rational exponents; rational, radical, and quadratic equations; inequalities; graphing; functions; variations; complex numbers; and elements of geometry. Upon completion, students should be able to apply the above concepts in problem solving using appropriate technology.

**Pre-requisites:** Mat 070      **Co-requisites:** RED 080

**Instructor Information:**

**Instructor:** Larry Shook  
**Office Location:** Room P37  
**Telephone Number:** 828-765-7351, ext 229  
**E-mail Address:** lshook@mayland.edu  
**Office Hours:** I maintain an open door policy for office hours and, if I am not in class or in a meeting I am available to you. In particular, please avail yourself of any of my posted office hours. Additional office hours are also available by appointment.

**Course Information:**

**Meeting days and time:** M/W/F, 12:00 – 1:25 p.m.  
**Required Text(s):** Larson, Ron. Intermediate Algebra – Student Support Edition. 4<sup>th</sup> Edition. Boston, New York: Houghton Mifflin Company, 2008.  
**Required supplies:** Required material for this class is a TI-83 graphing calculator.  
Lab packet (available through the bookstore)

**Course Objectives:**

This class is designed to expand your awareness of mathematics in the real world and provides an integrated approach to algebraic topics used in problem solving. Students will:

1. Communicate mathematical concepts and problems to others clearly and accurately.
2. Use basic algebra skills to solve application problems.
3. Use scientific and graphing calculators accurately and appropriately.
4. Develop the ability to critically analyze a problem and select the most appropriate method of solution.
5. Be adequately prepared for success in college level mathematics.

**Mission:**

**Mayland Community College's General Education core courses will provide the essential body of knowledge and skills that enable all degree-level students to perform competently as employees and as contributing members of society.**

**Graduates of all degree programs at Mayland Community College will have completed the general education core. That core encompasses the essential knowledge and skills that enable all degree-level students to perform competently as employees and as contributing members of society. Upon completion of the general education core, students will be able to demonstrate the following:**

1. Effective communication in speaking and listening situations needed for college, personal, and work successes
2. Effective communication in writing and reading situations needed for college, personal, and work successes
3. Logical, critical, and creative thinking to evaluate evidence and reach a conclusion
4. Application of basic computer use skills
5. Application of fundamental math skills
6. Basic awareness of the diversity of various world groups from both historical and contemporary contexts

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

Roll will be taken and you are expected to be in class each time it meets. Coming in late or leaving class early is counted as an absence. You will be allowed one cut without grade penalty. 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 in any work due in a timely manner. No absence is excused beyond the one allowed cut except for personal religious holidays (see me in advance). Any student with 4 or more absences will be penalized 50 grade points for this class. Missed class time can be made up in the tutoring lab or with an assigned tutor (time must be documented by the tutor).

**Note:** 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.

**Grading Criteria/Tests/Projects:**

The final grade will be determined as follows:

5 chapter tests @ 100 points each	500 points
Comprehensive final @ 200 points	200 points
Labs/homework	100 points
Quizzes	<u>100 points</u>
Total points	900 points

**Grading Scale:**

**A** = 830 - 900

**B** = 780 - 829

**C** = 680 - 779

**F** = 679 or below

**Note:** This course has a required comprehensive final exam worth 200 points. Students MUST score a passing grade of 70% or better on the final in order to pass this course. **NO EXCEPTIONS WILL BE MADE TO THIS RULE.** Passing the final does not ensure passing the course. Your grade must average out to passing according to the scale above.

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

**Assignments:** All homework will be reviewed each day from the previous class. All homework assignments are due the next class meeting after the material has been assigned.

**Tests:** There will be no makeup tests given except in extreme cases, and at my discretion. All work must be shown to receive partial credit on any assignment.

**Late Work:** I will not accept any late work for any reason.

**Behavior:** Students are expected to behave appropriately in class. Any excessive talking, profanity, leaving class or other inappropriate behavior will result in the student being asked to leave the class. A conference with student services will be required to return to class. Any one cheating on a test or quiz will be given a zero for the assignment and referred to the Academic Dean for disciplinary action. Please refer to the Student Handbook for a partial listing of instances of academic dishonesty.

**Incompletes:** Incompletes will be granted **ONLY** in extreme circumstances and at my sole discretion. If an incomplete is granted, it is the student's responsibility to see that all aspects of the syllabus are completed prior to May 5, 2008. There will be no reminders sent or phone calls made to prompt the student to cure the incomplete. If the incomplete is not cured by the deadline above, the incomplete will automatically convert to an F for the course, and the entire course must be repeated.

**Withdrawal Dates:** If you wish to audit this course, you must file a drop/add form with the registrar prior to August 24. If you cannot meet the course requirements or you must withdraw from this class, you must file a drop form with the registrar to avoid a failing grade on your transcript. You can withdraw unconditionally without grade penalty prior to September 25. From September 26 to November 1<sup>st</sup>, you can withdraw with a grade of WP or WF, to be determined by the instructor. You may not withdraw from any class after November 1<sup>st</sup>. Exceptions to this deadline will be made only in cases of extreme emergency (such as serious illness or family emergency.) This is a school wide Mayland Community College policy.

**Inclement Weather Procedures:** Students must use wisdom and discretion in case of inclement weather considering the geographic area in which we live. While this is college and students are expected to attend class, it is not advisable for students to risk bodily harm or property damage to attend. If students must miss classes due to weather or for some other excused reason such as a doctor's appointment or sickness, I will trade documented tutoring time for class time. This must be time with an assigned tutor, the math lab, or me.

It is possible that day classes can be cancelled, but night classes will be held, or vice versa. It is necessary that you either call the school or listen to the radio stations that report school closings to determine whether or not class is being held on days when the weather is uncertain. In the event classes are on a 2 hour delay, class will meet from 1:00 – 2:00 pm.

**Additional Information:**

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.

**Disclaimer:** While I have attempted to be as thorough as possible with this syllabus, course procedure may vary from this outline to meet the needs of this particular group. All dates contained in this syllabus are subject to change due to the weather and/or the discretion of the instructor.

**Important note:** Mayland Community College is now a tobacco free environment. This includes all smoking and smokeless tobacco.

**Course Outline/Weekly Topics**

Class Meeting	Section	Homework
Aug. 20	2.1	1 through 89, every other odd
Aug. 22	2.2	1 through 105, every other odd
Aug. 24	2.3	1 through 89, every other odd
Aug. 27	2.4	1 through 113, every other odd
Aug. 29	2.5	1 through 117, every other odd
Aug. 31	Review	
Sept. 5	Test 1	
Sept. 7	3.1	1 through 97, every other odd
Sept. 10	3.2	1 through 85, every other odd
Sept. 12	3.3	1 through 85, every other odd
Sept. 14	3.4	1 through 81, every other odd
Sept. 17	3.5	1 through 61, every other odd
Sept. 19	3.6	1 through 89 every other odd
Sept. 21	3.7	1 through 81, every other odd
Sept. 24	4.1, 4.2	1 through 97, eoo, 1 through 77, eoo, 80
Sept. 26	Review	
Sept. 28	Test 2	

Oct. 1	5.1	1 through 129, every other odd
Oct. 3	5.2	1 through 113, every other odd
Oct. 5	5.3	1 through 109, every other odd
Oct. 10	5.4	1 through 129, every other odd
Oct. 12	5.5	1 through 129, every other odd
Oct. 15	5.6	1 through 109, every other odd
Oct. 17	Review	
Oct. 19	Test 3	
Oct. 22	6.1	1 through 89, every other odd
Oct. 24	6.2	1 through 65, every other odd
Oct. 26	6.3	1 through 79, every other odd
Oct. 29	6.4	1 through 65, every other odd
Oct. 31	6.5	1 through 89, every other odd
Nov. 2	6.6	1 through 77, every other odd
Nov. 5	6.7	1 through 69, every other odd
Nov. 7	Review	
Nov. 9	Test 4	
Nov. 14	7.1	1 through 145, every other odd
Nov. 16	7.2	1 through 77, every other odd
Nov. 19	7.3	1 through 65, every other odd
Nov. 21	7.4	1 through 105, every other odd
Nov. 26	7.5	1 through 97, every other odd
Nov. 28	7.6	1 through 141, every other odd
Nov. 30	8.2	1 through 93, every other odd
Dec. 3	8.3	1 through 117, every other odd
Dec. 5	Review	
Dec. 7	Test 5	
Dec. 10	Exam Review	
Dec. 12	Exam Review	
Dec. 14	Final Exam	
Dec. 17	Make-Up Final	