

INTERMEDIATE ALGEBRA (MATH 137)
CRN 30178
INSTRUCTOR – BARBARA MAURICE
FALL 2010
ROOM D 126
T/R 1:00-2:15
OFFICE: C 206; OFFICE PHONE 383-5221
OFFICE HOURS: MW: 1:00- 2:00; TR 2:15-3:15
HOME PHONE – 887-6419
E-MAIL: bmaurice@trcc.commnet.edu

COURSE DESCRIPTION

A graphing calculator is required. Instructor will use a Texas Instrument calculator (TI83). This course continues the development of algebraic skills and concepts. The topics include: linear equations, functions and graphs, applications of systems of equations, inequalities, rational expressions and equations, operations of radicals and rational exponents, quadratic equations, exponential and logarithmic functions.

PREREQUISITE

Acceptable placement score or Math 095 with a “C” grade or better.

TEXTBOOK

Intermediate Algebra – Functions and Authentic Applications by Jay Lehmann (Fourth Edition).
Instructor ID for MyMathLab: maurice07709

COURSE OUTCOMES

At the end of the course students will be able to:

1. Solve linear, quadratic, logarithmic, and exponential equations and inequalities.
2. Graph linear, quadratic, exponential and logarithmic equations in two variables.
3. Develop the equation of lines in standard form, point/slope form, and slope intercept form.
4. Solve systems of linear equations.
5. Understand functional notation and applications.
6. Solve rational and radical equations.
7. Perform operations on: polynomial-based expressions, expressions that contain integer and rational exponents, and rational and radical expressions.
8. Solve application problems that give rise to linear, quadratic, logarithmic, exponential, rational or radical equations.

TENTATIVE SCHEDULE

R	8/26	Functions	1.6
T	8/31	Linear Functions	2.1-2.
R	9/2	Trigonometry	Handout
T	9/7	Trigonometry	Handout

R	9/9	Systems of Linear Equations	3.2-3.3
T	9/14	Review	
R	9/16	TEST #1 (CH. 1– 3 & TRIG)	
T	9/21	Exponential Functions	4.1-4.2
R	9/23	Exponents Functions continued	4.3-4.5
T	9/28	Logarithmic Functions	5.2-5.3
R	9/30	Logarithmic Functions continued	5.4-5.6
T	10/5	Review	
R	10/7	TEST #2 (CH. 4 – 5)	
T	10/12	Polynomial Functions	6.1-6.2
R	10/14	Polynomial Functions continued	6.3-6.4
T	10/19	Polynomial Functions continued	6.5-6.6
R	10/21	Quadratic Functions	7.1-7.2
T	10/26	Quadratic Functions continued	7.3&7.5
R	10/28	Quadratic Functions continued	7.6-7.7
T	11/2	Review	
R	11/4	TEST #3 (CH. 6 – 7)	
T	11/9	Rational Functions	8.1-8.2
R	11/11	Veteran’s Day – Classes not in session	
T	11/16	Rational Functions continued	8.3
R	11/18	Rational Functions continued	8.5-8.6
T	11/23	Instructor discretion	
R	11/25	Thanksgiving recess	
T	11/30	Radical Functions	9.1-9.2
R	12/2	Radical Functions continued	9.5

- T 12/7 Review
- R 12/9 TEST #4 (CH. 8– 9)
- T 12/14 Make-up
- R 12/16 To be used as needed
- 12/29 Grades available on web

Attendance/Homework/Requirements

It is strongly suggested that students make every effort to attend ALL classes. More than three absences during the semester will jeopardize the student’s success in the course. Homework will be assigned on a daily basis. All homework assignments must be completed. Students will be required to have a two-section math notebook. One section is to be dedicated to class notes while the other section will be dedicated to homework. The student’s math notebook should be available to the instructor at each class. Students are allowed to use a calculator.

CELL PHONES MUST BE TURNED OFF DURING CLASS.

Methods of Evaluation/Make-ups

Tests will be announced. Unannounced quizzes may be given at the discretion of the instructor. Tests that are missed for any reason cannot be made up (with the exception of snow conditions). If a student misses one of the first THREE tests, a make-up test will be given at the end of the semester. A student can also use this make-up test to improve their lowest test grade. Final grades will be assigned according to the following:

<u>CLASS AVERAGE</u>	<u>FINAL GRADE</u>
90 - 100	A- / A
80 - 89	B- / B+
70 - 79	C- / C+
60 - 69	D- / D+
Below 60	F

College Withdrawal Policy

Students may withdraw, in writing at the Registrar’s Office, for any reason until the end of the 10th week of classes. From the 11th week through the end of the 13th week, a student may withdraw with the signature of the instructor or advisor.

Statement on Disabilities

If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact the Disabilities Counseling Service at 383-5240. To avoid any delay in the receipt of accommodations, you should contact the counselor as soon as possible. Please note that I cannot provide accommodations based upon disability until I have received an accommodation letter from the Disabilities Counselor. Your cooperation is appreciated.