

## Intermediate Algebra Syllabus

MAT 137 CRN 30169 Fall 2009 Three Rivers Community College Norwich, CT 06360  
Max Wentworth, Instructor  
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Saturday 10:30AM-1:15PM, Room: E221  
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### Course Description

Through lecture and discussion of material, this course continues the development of algebraic concepts and skills.

### Objectives

To give the student an understanding of and the ability to utilize the following: linear equations, functions and graphs, trigonometric functions, systems of linear equations, inequalities, rational expressions and equations, operations on radicals and rational exponents, quadratic equations, exponential and logarithmic functions.

### Method of Evaluation

- 1) Tests
- 2) Quizzes/Assignments
- 3) Final Exam

### Procedure

There will be discussion of homework and new material will be presented each class. Questions are encouraged. Students may be asked to share their knowledge of a topic with the class.

### Attendance

Attendance is strongly encouraged.

### Required Text

Intermediate Algebra: A Graphing Approach; Martin-Gay, Greene: Upper Saddle River, NJ; Pearson Prentice Hall; 2009; 4th edition.

Note: Students will need graphing calculators and graph paper.

## Course Outline

### **Sections**

1.5, 1.6 & 1.8  
2.2, 2.5  
Trigonometry Handout  
3.2 & 3.3  
4.1-4.3  
5.1-5.8  
6.1-6.3, 6.5 & 6.6  
7.1-7.3, 7.6 & 7.7  
8.1-8.3, 8.5 & 8.6  
9.3-9.7

### **Topics**

Algebraic Equations and Problem Solving  
Functions & Equations of Lines  
Right triangle Trigonometry  
Inequalities  
Systems of Equations  
Exponents, Polynomials and Polynomial Functions/Factoring  
Rational Expressions and Equations  
Rational Exponents, Radicals and Complex Numbers  
Quadratic Equations  
Exponential and Logarithmic Functions

## Course Evaluation

Tests will constitute 50% of the course grade, quizzes/assignments are worth 20% and the final exam is 30% of the course grade.

Grades	Equivalent	Quality Points
A	93-100	4.0
A-	90-92	3.7
B+	87-89	3.3
B	83-86	3.0
B-	80-82	2.7
C+	77-79	2.3
C	73-76	2.0
C-	70-72	1.7
D+	67-69	1.3
D	63-66	1.0
F	Below 63	0.0

## Disabilities Statement

If you have a hidden or visible disability, which may require classroom or test-taking modifications, please see me as soon as possible so we may discuss options. If you have not done so, please contact Chris Scarborough, the disability counselor, Phone number (860) 892-5751, email: cscarborough@trcc.commnet.edu.

## College Withdrawal Policy

Students may withdraw, at the Registrar's Office, on or before December 9, 2009.

## Resources

Free tutoring is available at the Tutoring and Academic Success Center (TASC). Videotapes and computer programs that follow the book are also available at TASC.

MyMathLab access code for the course is: wentworth06592