

# Course Syllabus

**Department** : Mathematics  
**Course Title** : College Algebra  
**Section Name** : MATH\_1314\_607  
**Start Date** : 01/18/2011  
**End Date** : 05/13/2011  
**Modality** : FACE-TO-FACE  
**Credits** : 3

## Instructor Information

**Name** : Charles Sweatt  
**OC Email** : csweatt@odessa.edu  
**OC Phone #** : (432) 335-6634

## Course Description

MATH 1314 College Algebra (27.0101.5419) (3-0) 3 hours

Includes sets, complex numbers, quadratic and quadratic form equations, inequalities, functions, systems of equations and topics selected from exponential and logarithmic functions, matrices, determinants, binomial theorem, math induction and sequences and series. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. The student should be able to probe for mathematical meaning and, perhaps, describe these meanings to others. **Placement testing is available.**

## Prerequisites/Corequisites

**Prerequisite:** MATH 0375 passed with a C or better, high school Algebra II, or an independent school district/OC dual enrollment form.

**Scans** 3,8,9,11

# Course Objectives

After completing this course, the student should be able to demonstrate competency in:

2.0 Functions and Graphs

3.0 Polynomials and Rationals Exponential

4.0 Exponential and Logarithmic Functions

5.0 Systems of Equations

6.0 Matrices and Determinants

8.0 Other Topics in Algebra

## COURSE CONTENT:

Chapters 2 - 8 in the textbook. Some sections will be omitted.

## ATTENDANCE:

Attendance is factored into your term grade. Attendance will be taken during each class period. You can earn up to 6 bonus points for perfect attendance. The possible 6 points is reduced by 1 bonus point for each hour you are absent. **In order to do well in the class you must attend regularly.**

## HOMEWORK:

Homework problems will be assigned each class period and the accumulative score on your homework will count as 12% of your final grade. The assignments and due dates are included in your My Math Lab program. It is very important that you do the homework after each class. You should use the methods demonstrated in class and/or text book. There may be homework assignments that are to be turned in to the instructor for grading.

## TESTS:

There will be 5 tests and a comprehensive final exam. You **MUST** take the final exam. Test dates will be announced in class and will be posted in the My Math Lab program. Included in My Math Lab are optional reviews that you may use to review for the exams and final. These optional reviews will be counted if they will increase your grade on that chapter and will not be counted if they would lower your chapter grade. The four exam will count as 60% of your grade. You will not be allowed to use any notes on the tests.

## TUTORIAL HELP:

If you have trouble with any of the material in this course, do not hesitate to ask for assistance. It will get worse if you wait. You may ask questions in class, come to my office during office hours, or go to the Math Lab in ET 120

## Required Readings/Materials

You must purchase the following *required* readings/materials:

### Required Software:

- A) **My Math Lab** (ISBN:032119991X). All you really need is an access code for the course. It can be purchased at the bookstore in a student access kit for My Math Lab or you may purchase it on line with a credit or debit card. NOTE: If you are repeating this course you may not have to purchase a new access code (see "How do I get started?" on after you register in My Math Lab ).
- B) You will need a scientific or graphing calculator.
- C) You are encouraged to buy the following *optional* books/materials  
**Optional Textbook:** College Algebra Fifth edition by Robert Blitzer. The textbook is included in the software in pdf form so **you do not have to buy the text**. However, it is available in the bookstore if you prefer to use the textbook.

## Course Requirements (Lectures, Assignments/Assessments)

The course will consist of homework assigned by section, five chapter tests (2, 3, 4, 5-6, 7- 8) and a comprehensive final exam.

### Summary of Assignments & Activities

Item(Name)	Type	Description	Due
HW 2.1	Homework	Homework for section 2.1	02/02/2011, 5pm
HW 2.2	Homework	Homework for section 2.2	02/02/2011, 5pm
HW 2.5	Homework	Homework for section 2.5	02/02/2011, 5pm
HW 2.6	Homework	Homework for section 2.6	02/02/2011, 5pm
HW 2.7	Homework	Homework for section 2.7	02/02/2011, 5pm
HW 2.8	Homework	Homework for section 2.8	02/02/2011, 5pm
<b>Chapter 2 Optional Review</b>	<b>Homework</b>	<b>Optional Review for Chapter 2 Test</b>	<b>02/02/2011, 5pm</b>
<b>Chapter 2 Test</b>	<b>Test</b>	<b>Chapter 2 Test</b>	<b>02/024/2011, 1pm</b>

## Summary of Assignments & Activities (continued)

HW 3.1	Homework	Homework for section 3.1	02/21/2011, 5pm
HW 3.2	Homework	Homework for section 3.2	02/21/2011, 5pm
HW 3.3	Homework	Homework for section 3.3	02/21/2011, 5pm
HW 3.4	Homework	Homework for section 3.4	02/21/2011, 5pm
HW 3.5	Homework	Homework for section 3.5	02/21/2011, 5pm
<b>Chapter 3 Optional Review</b>	<b>Homework</b>	<b>Optional Review for Chapter 3 Test</b>	<b>02/21/2011, 5pm</b>
<b>Chapter 3 Test</b>	<b>Test</b>	<b>Chapter 3 Test</b>	<b>02/21/2011, 1pm</b>
HW 4.1	Homework	Homework for section 4.1	03/09/2011, 5pm
HW 4.2	Homework	Homework for section 4.2	03/09/2011, 5pm
HW 4.3	Homework	Homework for section 4.3	03/09/2011, 5pm
HW 4.4	Homework	Homework for section 4.4	03/09/2011, 5pm
<b>Chapter 4 Optional Review</b>	<b>Homework</b>	<b>Optional Review for Chapter 4 Test</b>	<b>03/09/2011, 5pm</b>
<b>Chapter 4 Test</b>	<b>Test</b>	<b>Chapter 4 Test</b>	<b>03/09/2011, 1pm</b>
HW 5.1	Homework	Homework for section 5.1	04/06/2011, 5pm
HW 5.2	Homework	Homework for section 5.2	04/06/2011, 5pm
HW 6.1	Homework	Homework for section 6.1	04/06/2011, 5pm
HW 6.3	Homework	Homework for section 6.3	04/06/2011, 5pm
HW 6.4	Homework	Homework for section 6.4	04/06/2011, 5pm
HW 6.5	Homework	Homework for section 6.5	04/06/2011, 5pm
<b>Chapter 5 &amp; 6 Optional Review</b>	<b>Homework</b>	<b>Optional Review for Chapter 5 &amp; 6</b>	<b>04/06/2011, 5pm</b>
<b>Chapter 5 &amp; 6 Test</b>	<b>Test</b>	<b>Chapter 5 &amp; 6 Test</b>	<b>04/06/2011, 1pm</b>
HW 7.1	Homework	Homework for section 7.1	04/20/2011, 5pm
HW 7.2	Homework	Homework for section 7.2	04/20/2011, 5pm
HW 7.3	Homework	Homework for section 7.3	04/20/2011, 5pm
<b>Chapter 7 Optional Review</b>	<b>Homework</b>	<b>Optional Review for Chapter 7</b>	<b>04/20/2011, 4pm</b>
<b>Chapter 7 Test</b>	<b>Test</b>	<b>Chapter 7 Test</b>	<b>04/20/2011, 1pm</b>
HW 8.1	Homework	Homework for section 8.1	05/04/2011, 5pm
HW 8.2	Homework	Homework for section 8.2	05/04/2011, 5pm
HW 8.3	Homework	Homework for section 8.3	05/04/2011, 5pm
HW 8.5	Homework	Homework for section 8.5	05/04/2011, 5pm
HW 8.6	Homework	Homework for section 8.6	05/04/2011, 5pm
<b>Chapter 8 Optional Review</b>	<b>Homework</b>	<b>Optional Review for Chapter 8</b>	<b>05/04/2011, 5pm</b>
<b>Chapter 8 Test</b>	<b>Test</b>	<b>Chapter 8 Test</b>	<b>05/04/2011, 1pm</b>
<b>Chapters 2-8 Optional Review</b>	<b>Homework</b>	<b>Optional Review for Final Exam</b>	<b>05/09/2011, 8am</b>
<b>Final Exam</b>	<b>Final Exam</b>	<b>Comprehensive, final exam</b>	<b>05/09/2011, 2pm</b>

## Grading Policy

The base grade will be 60% from the hourly exams, 12% from the homework, 28% from the final exam. The attendance bonus will be added to the base grade.

## Grades vs Term Numerical Averages

≥ 90	89.99 - 80	79.99 - 70	69.99 - 60	≤ 60
A	B	C	D	F

## Special Needs

Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have any special needs or issues pertaining to your access to and participation in this or any other class at Odessa College, please feel free to contact me to discuss your concerns. You may also call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

## Learning Resource Center (Library)

The Library, known as the [Learning Resources Center](#), provides research assistance via the [LRC's catalog \(print books, videos, e-books\)](#) and [databases \(journal and magazine articles\)](#). [Research guides](#) covering specific subject areas, [tutorials](#), and the ["Ask a Librarian"](#) service provide additional help.

## Student E-mail

Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

## Student Portal

Please see the Student Handbook

## Technical Support

For Blackboard username and password help and for help accessing your online course availability and student email account contact the Student Success Center at 432-335-6878 or online at [https://www.odessa.edu/dept/ssc/helpdesk\\_form.htm](https://www.odessa.edu/dept/ssc/helpdesk_form.htm).

## Important School Policies

For information regarding student support services, academic dishonesty, disciplinary actions, special accommodations, or student's and instructors' right to academic freedom can be found in the [Odessa College Student Handbook](#).