

**Odessa College**  
**Introductory Algebra**  
**Spring 2012**

**Instructor:** Steve Chandler (Coach)

ET 123

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**Course Number:** MATH.0372.5135 Introductory Algebra

**Credit Hours:** 3

Introductory Algebra is a developmental course that introduces elementary algebra with some arithmetic review. Includes signed numbers and rational numbers with operations through exponentiation; algebraic expressions and their operations; linear equations and inequalities including applications, graphs. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning, and problem solving. Credit is not transferable. This course does not satisfy requirements for any degree plan at College. Placement testing is available. Attendance is mandatory for TASP/THEA liable students. Lab fee required. (SCANS 3, 8, 9) Prerequisite: MATH 0371 passes with a 'C' or better or satisfactory placement score. Corequisite: 14 hours in the Math Academic Resource Lab.

**Course Objectives**

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- 1.0 Performing algebraic operations with real numbers.
- 2.0 Solve equations and inequalities and solve applied problems.
- 3.0 Graph equations and inequalities.
- 4.0 Verify equivalent expressions and perform basic operations with polynomials.
- 5.0 Perform polynomial operations and factoring algebraic expressions

**Textbook:** *Elementary and Intermediate Algebra*; Bittinger, 4e & Workbook

**MyMath Lab Software:** All homework is done with this software

**Technology:**

Students must have a valid e-mail address to register for computer software. The email address that you use to register your software will be the email address to which I will send any information or announcements. Please check this account regularly. It is recommended that you use your Odessa College email address. All work is done through the internet, so you need internet access. If you do not have access to the internet, you may use the computers in the math lab.

**Method of Evaluation:** Homework: 33%  
Test: 33%  
Final Exam: 15% (Final is comprehensive)  
Lab 15 %

Percentage (%)	Grade
90-100	A
80-89.9	B
70-79.9	C
60-69.9	D
Below 60	F

**Course Grade:** Class grade – 86%, Lab hours – 14%

**No Make-up on Tests!! You must make prior arrangements. No exceptions.**

**Homework:** You will use the My Math Lab software to access and submit homework. Homework for each chapter will be available the day of the previous chapter test. You may print the problems, work them, and get back online to fill in the answers. Homework will be submitted online at any time before the beginning of the chapter test. **LATE WORK WILL BE ACCEPTED AFTER THE DUE DATE, BUT WILL INCUR A SCORING PENALTY. Once zeroes are submitted for incompletes, late homework will not be accepted.** Completing homework in a timely manner is critical to success in a math class.

### Homework Due Dates:

W 01/18 Welcome and Introduction

- 1.1 Introduction to Algebra
- 1.2 Commutative, Associative, and Distributive

M 01/23

- 1.3 Fraction Notation
- 1.4 Positive and Negative Real Numbers

W 01/25

- 1.5 Addition of Real Numbers
- 1.6 Subtraction of Real Numbers

M 01/30

- 1.7 Multiplication and Division of Real Numbers
- 1.8 Exponential Notation and Order of Operations

W 02/01

#### CHAPTER 1 TEST

M 02/06

- 2.1 Solving Equations
- 2.2 Using Principles Together

W 02/08

- 2.3 Formulas
- 2.4 Applications with Percent

M 02/13

- 2.5 Problem Solving

W 02/15

- 2.6 Solving Inequalities

M 02/20

#### CHAPTER 2 TEST

W 02/22

- 3.2 Graphing Linear Equations

M 02/27

- 3.3 Graphing and Intercepts

W 02/29

- 3.4 Rates
- 3.5 Slopes

M 03/05

- 3.6 Slope-Intercept Form

W 03/07

- 3.7 Point-Slope Form

M 03/19

#### CHAPTER 3 TEST

W 03/21

- 4.1 Exponents and Their Properties
- 4.2 Negative Exponents and Scientific Notation

M 03/26

- 4.3 Polynomials

W 03/28

- 4.4 Addition and Subtraction of Polynomials

M 04/02

- 4.5 Multiplication of Polynomials

- 4.8 Division of Polynomials

W 04/04

- 4.6 Special Products

M 04/09

- 4.7 Polynomials in Several Variables

W 04/11

#### CHAPTER 4 TEST

M 04/16

- 5.1 Introduction to Factoring
- 5.2 Factoring Trinomials  $x^2 + bx + c$

W 04/18

- 5.3 Factoring Trinomials  $ax^2 + bx + c$
- 5.4 Perfect Square Trinomials and Difference of Squares

M 04/23

- 5.5 Factoring Sums and Differences of Cubes
- 5.7 Solving Polynomials by Factoring

W 04/25

#### CHAPTER 5 TEST

M 04/30

Make up test night

W 05/02

Final Exam Review

M 05/07 **FINAL EXAM**

## **Failure to take Final Exam will result in receiving an F for the class.**

**Attendance:** Your Attendance is the greatest indicator of YOUR success. Student attendance at every class is expected. You should expect that each absence would adversely affect your course grade. This is a developmental course and state law requires class attendance. You are allowed 5 missed class days. On the 6<sup>th</sup> absence you will be given an **F** for the course. You will receive ½ of an absence if you arrive late or leave class early. You will also be counted absent for sleeping during class.

**Math Lab:** You are required to attend the Math lab for a total of 14 hours in the semester. Do not wait until the last of the semester. You can receive a maximum of 3 hours credit a week. If you do not attend the lab, it will affect your grade and can even result in a failing grade.

### **Tutoring**

Tutoring is available in the OC Math Lab. The hours for the math lab are Mon-Thurs 8:30 AM – 8:30 PM, Friday from 8:30 AM – 1:00 PM, and Sunday from 1:00 PM – 5:00 PM.

**Cell Phones:** Cell phones and pagers are NOT allowed in my class. If you must have a cell phone on please turn it to silent. Do not answer in class. You need to wait until I have finished lecturing and then go out in the hall to respond to the call.

### **Dropping the Course**

Dropping the course is not recommended. However, the last day to drop a course at Odessa College for the spring semester of 2012 is Friday April 13.

### **Back-Up Plan**

You must have a back-up plan for this course in case your primary computer fails during the semester.

**Conduct:** All students will be expected to abide by the OC Code of Classroom Etiquette. I have provided a copy for you. If you fail to abide by these rules, you will be asked to leave my classroom or be removed completely from my class.

**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 335-6861 to request assistance and accommodations.

### **Learning Resource Center (The 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 Email**

Please access your [Odessa College Student E-mail](http://www.odessa.edu/gmail/), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>.

### **Important School Policies**

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