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**Odessa College**
**Intermediate Algebra Lecture Class**
**Spring 2011**
**01/18/2011 – 05/13/2011**

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**Instructor:** Karen Hill                                                          Cell Phone 940-9020

**E-mail:** kahill@pbtisd.esc18.net

**Course Number:** MATH0375

**Your Course Name:** Intermediate Algebra - K. Hill Spring 11
**Your Course ID:**    hill31041

**Credit Hours:** 3

A developmental course that provides a study of real number operations, linear equations and inequalities including systems, function notation, quadratic inequalities, exponents and radicals, polynomial and radical equations, and their 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 Odessa College. Placement testing is available. Attendance is mandatory for TASP/THEA liable students. Lab fee required. (SCANS 3, 8, 9)  Prerequisite: MATH 0372 passed with a "C" or better or satisfactory placement score. Co-requisite: 14 hours in the Math Academic Resource Lab.

## Course Objectives

1.0      Performing algebraic operations on rational expressions and equations.

2.0      Performing algebraic operations on functions and graphing functions.

3.0      Solving systems of linear equations and applied problems.

4.0      Solving compound and absolute value inequalities, using basic arithmetic operations with rational expressions and solving applied problems.

5.0      Using basic algebraic operations on radicals and complex numbers, simplifying radicals, and solving applied problems with radicals.

6.0      Solving quadratic equations by the technique of completing the square and using the quadratic formula and solving applied problems involving quadratic equations.

**Textbook:** *Elementary and Intermediate Algebra;* Bittinger, 4e
        **MyMath Lab Software:  all homework 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: 26%
Math Lab: 14%
Test: 40%
Final Exam: 20% (Final is comprehensive)

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


**No Make-up on Homework or Test!! Make prior arrangements.**
**No Late Homework Accepted.**
**Failure to take Final Exam will result in receiving an F for the class**


## Tentative Schedule of Assignments & Tests

| | |
|---|---|
| Jan 18 | Information – MyMath Lab Information |
| Jan 20 | 6-1 Rational Expressions |
| Jan 25 | 6-2 Multiplication and Division |
| Jan 27 | 6-3 Addition, Subtraction, and Lease Common Denominators |
| Feb 1 | 6-4 Addition and Subtraction with Unlike Denominators |
| Feb 3 | 6-5 Complex Rational Expressions |
| Feb 8 | 6-6 Solving Rational Equations |
| Feb 10 | **Chapter 6 Test  - Homework for Chapter 6 is due today!** |
| Feb 15 | 7-1 Introduction to Functions |
| | 7-2 Domain and Range |
| Feb 17 | 7-3 Graphs of Functions |
| | 7-4 The Algebra of Functions |
| Feb 22 | **Chapter 7 Test - Homework for Chapter 7 is due today!** |
| Feb 24 | 8-1 Systems of Equations in Two Variables |
| | 8-2 Solving by Substitution of Elimination |
| Mar 1 | 9-1 Inequalities and Domain |
| | 9-2 Intersections, Unions and Compound Inequalities |
| Mar 3 | 9-3 Absolute Value Equations and Inequalities |
| Mar 8 | **Chapter 8 and 9 Tests - Homework for Chapter 8 and 9 is due today!** |
| Mar 10 | 10-1 Radical Expressions and Functions |
| Mar 15 | **SPRING BREAK** |
| Mar 22 | 10-2 Rational Numbers as Exponents |
| Mar 24 | 10-3 Multiplying Radical Expressions |
| Mar 29 | 10-4 Dividing Radical Expressions |

| Mar 31 | 10-5 Expressions Containing Several Radical Terms |
|---|---|
| Apr 5 | 10-6 Solving Radical Equations |
| Apr 7 | 10-8 The Complex Numbers |
| Apr 12 | **chapter 10 Test - Homework for Chapter 10 is due today!** |
| Apr 14 | 11-1 Quadratic Equations |
| Apr 19 | 11-2 The Quadratic Formula |
| Apr 21 | 11-4 Studying Solutions of Quadratic Equations |
| Apr 26 | 11-6 Quadratic Functions and their Graphs |
| Apr 28 | 11-7 More about Graphing Quadratic Functions |
| May 3 | 11-8   Problem Solving and Quadratics |
| May 5 | 11-9   Polynomial and Rational Inequalities |
| May 10 or 12 | Finals – **Homework for Chapter 11 is due today!** |

**NOTES:** You can print out the notes for class at https://sites.google.com/site/inter375

**Attendance:** Your Attendance is the greatest indicator of YOUR success. You will receive ½ of an absence if you arrive late or leave class early or don't have your supplies. 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$^{th}$ absent you will be given an **F** for the course.

**Math Lab:** You are required to attend the Math lab for a total of 7 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. Math Lab is 14% of final course grade.

**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 last day to drop a course at Odessa College for the spring semester of 2011 is Thursday April 14.

**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.

**Cheating:** Cheating is not tolerated in my class. Cheating also includes copying answers out of the back of the book. All work must be shown on homework paper that is turned in. Any homework turned in that shows only answers will receive a 0. The 1$^{st}$ time you are caught cheating on a paper, homework, assignment, or test, you will receive a 0 for that assignment. The 2$^{nd}$ time you are caught cheating, you will be removed from my class permanently and receive an F for the course. If you are caught letting someone copy your paper, you will receive the same punishment.

**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, 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**

**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.

**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.