

MATH 1314: College Algebra

01/18/2011 – 05/13/2011

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Office Phone: 432-335-6637
Office Hours: 10am-12 pm T/Th, 12-1 pm MTWTH
Or by appointment
Email: **CSanchez@odessa.edu**
Meet: MWF (110)
Text: MyMathlab Software: College Algebra, 5th Edition
by Blitzer (included in software) course id: sanchez29903

Math 1314: (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 available. (SCANS 3, 8, 9, 11) Prerequisite: MATH 0375 passed with a "C" or better, high school Algebra II, or an independent school district/OC dual enrollment form.

About the course: This course is intended to provide students with the skills necessary to use tools from algebra to solve problems in a variety of contexts.

Learning Objectives: Students obtain those algebra skills needed for subsequent studies in pre-calculus and calculus.

*Tentative Course Outline

We will be covering chapters 1-8. We will cover only a limited selection out of chapters 6 through 8.

Methods of assessment: The expected learning outcomes for the class will be assessed through exams, in-class activities, homework, class discussions, and/or active learning activities. Group work outside of class is encouraged.

Comprehensive Final Exam

Attendance: Attendance is not mandatory, but will be considered if final grade is border-line. (By border-line, I mean, for example, 89.4) Consideration will be taken only if you have 3 or less absences. I take up homework all at the same time, so it is in your best interest to be on time. If you are absent for any reason, you are responsible for all make-up work, notes, and being prepared to take a quiz or test the next time you come to class. It is a good idea to have a network of friends that can take notes for you and other things you might have missed while you were gone.

Homework: Homework will be assigned and taken up on the next class day. The homework will be the basis of discussion during class. **NO LATE HOMEWORK WILL BE ACCEPTED!**

| Grading: | Scale: | | | |
|-----------|--------|-----------|---|-------------|
| Homework: | 35% | 90 – 100% | A | Below 70% F |
| Tests: | 50% | 80 – 89% | B | |
| Final: | 15% | 70 – 79% | C | |

Make-up: **Absolutely no make-up tests will be given.** This is why it is so important to attend class. If you miss, it is your responsibility to turn in homework prior to class. **No late homework** will be accepted.

Civility in the classroom: Students are expected to assist in maintaining a classroom environment which is conducive to learning. In order to assure all students have an opportunity to gain from time spent in class, troublesome behavior will not be tolerated. This includes the use of cellular phones, making offensive remarks, reading newspapers, sleeping, bad attitudes, or engaging in any other form of distraction. The instructor is authorized to take such steps as are necessary when the behavior of a student disrupts the normal classroom procedure.

Calculators: A graphing calculator is required. You will need a calculator that can do matrix manipulations such as row reductions and that can graph most functions. I would recommend a TI 83 or 84. Do not get a TI 86, TI 92, or any other that can do the factoring for you. Cell phones and similar devices may NOT be used as calculators. The instructor reserves the right to not allow any particular calculator. Check with the instructor immediately to make sure yours is allowed.

Tutorials: Tutors are available in the Math Center. I strongly encourage the use of this resource. The tutoring center is located in ET 120 and is available to everyone enrolled in this course free of charge.

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/>. **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.

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.

| Date: | Section | Assignment |
|-----------|----------------------------------|---------------------------------------|
| 1/19 | Syllabus, factoring, blackboard | MyMathLab |
| 1/21 | 2.1 | MyMathLab |
| 1/24 | 2.2 | MyMathLab |
| 1/26 | 2.3 | MyMathLab |
| 1/28 | 2.4 | MyMathLab |
| 1/31 | 2.5 | MyMathLab |
| 2/2 | 2.6 | MyMathLab |
| 2/4 | 2.7 | MyMathLab |
| 2/7 | Factoring | Worksheet 1 in class practice |
| 2/9 | Factoring | Worksheet 2 in class practice |
| 2/11 | Factoring | Worksheet 3 in class practice |
| 2/14 | 1.4 | MyMathLab |
| 2/16 | 1.5 | MyMathLab |
| 2/18 | Solving Quadratics | in class practice |
| 2/21 | Chapter 1/2 Exam | no homework |
| 2/23 | Zeros exercise | in class practice |
| 2/25 | 3.2 | MyMathLab |
| 2/28 | 3.3 | MyMathLab |
| 3/2 | 3.4 | MyMathLab |
| 3/4 | finding zeros | in class practice |
| 3/7 | 3.5 | MyMathLab |
| 3/9 | graphing rational functions | in class practice |
| 3/11 | 4.1 | MyMathLab |
| 3/13-3/19 | spring break | spring break |
| 3/21 | 4.2 | MyMathLab |
| 3/23 | 4.3 | MyMathLab |
| 3/25 | 4.4 | MyMathLab |
| 3/28 | Chapter 3/4 Exam | no homework |
| 3/30 | 5.3 | MyMathLab |
| 4/1 | 5.1 | MyMathLab |
| 4/6 | 5.2 | MyMathLab |
| 4/8 | 6.1 | MyMathLab |
| 4/11 | solving systems of equations | in class practice |
| 4/13 | Conic Sections | circle, parabola |
| 4/15 | Conic Sections | ellipse, hyperbola |
| 4/18 | Conic Sections | Completing the square |
| 4/20 | Conic Sections | in class practice |
| 4/22 | Chapter 5/6, conic sections test | Test |
| 4/25 | 8.1 | MyMathLab |
| 4/27 | 8.2 | MyMathLab |
| 4/29 | 8.3 | MyMathLab |
| 5/2 | 8.5 | MyMathLab |
| 5/4 | 8.4 | MyMathLab |
| 5/6 | 8.4 Continued | in class practice |
| 5/9-5/12 | Final Exam | Departmental Comprehensive Final Exam |
| 5/13 | Spring Graduation | Spring Graduation |