

MATH 1314: College Algebra

Fall 2011

Instructor: Ariela Lange

Office: ET 135

Office Phone: 432-335-6799

Office Hours: M/W: 8:15 – 9:00 and 11:00 – 12:00 and M: 1:30 – 3:30

Tuesday: 12:30 – 2:30

Friday: 8:30 - 9:00

Email: alange@odessa.edu

Meet: MW (119)

Text: MyMathlab Software: College Algebra, 5th Edition
by Blitzer (included in software)

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 2-8. 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!

Homework will be available online immediately after class. It must be submitted before the next class starts. It will be submitted via the internet – NOT HANDED TO ME!! You can print the problems, work them, and get back online to type your answers.

Date Lecture Topic

M 8/22	Info, register for DT
W 8/24	2.1
M 8/29	Finish 2.1, 2.6a
W 8/31	2.2, start on 2.5
M 9/5	[Labor Day]
W 9/7	Finish 2.5
M 9/12	2.6b
W 9/14	2.7
M 9/19	2.8
W 9/21	Test Ch.2
M 9/26	3.1
W 9/28	3.2
M 10/3	3.3
W 10/5	3.4
M 10/10	3.5
W 10/12	Test Ch.3
M 10/17	4.1
W10/19	4.2
M10/24	4.3
W10/26	4.4
M10/31	Test Ch.4
W11/2	5.1
M11/7	5.2
W11/9	6.1
M11/14	6.5
W11/16	Test Ch. 5&6
M11/21	8.1, start on 8.2
W11/23	Thanks Giving
M11/28	Finish 8.2, 8.3
W11/30	Review for Final
Wk 12/5 – 12/8	Final Exam

Grading:

Homework:20%
 Tests: 40%
 Final: 15%
 Quiz: 25%

Scale:

90 – 100% A Below 70% F
 80 – 89% B
 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: 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