

# MATH 1314: College Algebra

Fall 2012

Instructor: Ariela Lange

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Office Phone: 432-335-6799

Office Hours: M: 8:30 – 9:00

M/W: 11:00 – 1:00

Tuesday: 11:00 – 12:00

W/F: 8:15 - 9:00

TTH: 7:30 – 8:00

Email: [alange@odessa.edu](mailto:alange@odessa.edu)

Meet: TTH (119)

Text: MyMathlab Software & College Algebra, 5<sup>th</sup> Edition  
by Blitzer (included in software)

**Math 1314:** (3-0) 3 hours

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

## Learning Outcomes

Upon successful completion of this course, students will:

1. Demonstrate understanding and knowledge of properties of functions, which include domain and range, operations, compositions, and inverses.
2. Recognize and apply polynomial, rational, radical, exponential, and logarithmic functions and solve related equations.
3. Apply graphing techniques.
4. Evaluate all roots of higher degree polynomial and rational functions.
5. Recognize, solve and apply systems of linear equations using matrices.

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.

**Drop date:** 14<sup>th</sup> of November

**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. 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.

<b>Date</b>	<b>Lecture Topic</b>	
T	8/28	Info/register for DT/PT
TH	8/30	2.1
T	9/4	Finish 2.1, 2.6a
TH	9/6	2.2
T	9/11	2.5
TH	9/13	Finish 2.5
T	9/18	2.6b
TH	9/20	2.7
<b>T</b>	<b>9/25</b>	<b>Test Ch.2</b>
TH	9/27	3.1
T	10/2	3.2
TH	10/4	3.3
T	10/9	3.4
TH	10/11	3.5
<b>T</b>	<b>10/16</b>	<b>Test Ch.3</b>
TH	10/18	4.1
T	10/23	4.2
TH	10/25	4.3
T	10/30	4.4
<b>TH</b>	<b>11/1</b>	<b>Test Ch.4</b>
T	11/6	5.1
TH	11/8	5.2
T	11/13	6.1 (++6.2?)
TH	11/15	6.5
<b>T</b>	<b>11/20</b>	<b>Test Ch.5&amp;6</b>
<b>TH</b>	<b>11/22</b>	<b>THANKSGIVING HOLIDAY</b>
T	11/27	8.1
TH	11/29	8.2
T	12/4	8.3
TH	12/6	Review for Final
<b>WK</b>	<b>12/10-13</b>	<b>Final Exam</b>

**Grading:**

Homework: 25%  
Tests: 30%  
Final: 25%  
Quiz: 20%

**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](#), 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](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.

**Student Success Coaches**

The Odessa College Student Success Coaches will help you stay focused and on track to complete your educational goals. If an instructor sees that you might need additional help or success coaching, he or she may submit a Retention Alert or a Starfish Alert. A Student Success Coach will contact you to work toward a solution.

**The SEI process for face-to-face and online courses is scheduled for the week of November 26th.**

**Expectations for Engagement – Face to Face Learning**

To help make the learning experience fulfilling and rewarding, the following Expectations for Engagement provide the parameters for reasonable engagement between students and instructors for the learning environment. Students and instructors are welcome to exceed these requirements.

### Reasonable Expectations of Engagement for Instructors

1. As an instructor, I understand the importance of clear, timely communication with my students. In order to maintain sufficient communication, I will
  - provided my contact information at the beginning of the syllabus;
  - respond to all messages in a timely manner through telephone, email, or next classroom contact; and,
  - notify students of any extended times that I will be unavailable and provide them with alternative contact information (for me or for my supervisor) in case of emergencies during the time I'm unavailable.
2. As an instructor, I understand that my students will work to the best of their abilities to fulfill the course requirements. In order to help them in this area, I will
  - provide clear information about grading policies and assignment requirements in the course syllabus, and
  - communicate any changes to assignments and/or to the course calendar to students as quickly as possible.
3. As an instructor, I understand that I need to provide regular, timely feedback to students about their performance in the course. To keep students informed about their progress, I will
  - return classroom activities and homework within one week of the due date and
  - provide grades for major assignments within 2 weeks of the due date or at least 3 days before the next major assignment is due, whichever comes first.

### Reasonable Expectations of Engagement for Students

1. As a student, I understand that I am responsible for keeping up with the course. To help with this, I will
  - attend the course regularly and line up alternative transportation in case my primary means of transportation is unavailable;
  - recognize that the college provides free wi-fi, computer labs, and library resources during regular campus hours to help me with completing my assignments; and,
  - understand that my instructor does not have to accept my technical issues as a legitimate reason for late or missing work if my personal computer equipment or internet service is unreliable.
2. As a student, I understand that it is my responsibility to communicate quickly with the instructor any issue or emergency that will impact my involvement with or performance in the class. This includes, but is not limited to,
  - missing class when a major test is planned or a major assignment is due;
  - having trouble submitting assignments;
  - dealing with a traumatic personal event; and,
  - having my work or childcare schedule changed so that my classroom attendance is affected.
3. As a student, I understand that it is my responsibility to understand course material and requirements and to keep up with the course calendar. While my instructor is available for help and clarification, I will
  - seek out help from my instructor and/or from tutors;
  - ask questions if I don't understand; and,
  - attend class regularly to keep up with assignments and announcements.

