Math 3A College Algebra Spring 2020

Course Syllabus

General Information

Instructor

Veronica Andrade-Romeo

Office

FEM 4A

Office Hours

Monday & Wednesday 11:00 – 12:50 in my office and a virtual office hour on

Fridays 9:00 – 9:50 Email me if you need to meet with me and my office hours

do not work for you.

Email

maria.andrade-romeo@reedleycollege.edu

Prerequisites

Course Description

This is a college level course in algebra for majors in science, technology, engineering, and mathematics. Students will study polynomial, rational, radical, exponential, absolute value, and logarithmic functions; systems of equations; theory of polynomial equations; analytic geometry among other topics.

Text and Required Material

1. Lial, Hornsby, Schneider & Daniels "College Algebrah" twelfth edition MyMathLab Access Card. The best and cheapest way to purchase the access card is with a credit card through CANVAS. You may also purchase it at the bookstore but it will cost a little more. You have two options. Option one purchase the MyMathLab Access Card only or Option Two Purchase both the textbook and the MyMathLab Access Card. In other words, the MyMathLab access card is required and the actual textbook is completely optional.
2. Scientific Calculator (make sure it has the sin, cos, and tan keys) YOU MAY NOT USE YOUR CELL PHONE AS A CALCULATOR. You must bring the calculator to class every day.
3. Printing Paper (I prefer you do math on non-lined paper) and a few pages (about 5) of graphing paper

Reasons for which you may be dropped

I may drop students at any time starting on Wednesday January 15th through Sunday March 15th. Here are the reasons for which you may be dropped:

1. You may be dropped if you have not signed up for MyMathLab by Wednesday January 15th.

DO NOT purchase the access code by January 15th use the free trial at this point (this is important if you buy the 18-week access code because this semester has 19 weeks, so it is very important that you use the free trial for a week. Also, be sure to register through CANVAS not through Pearson. Which means that I will NOT give you a course ID. When you sign up through CANVAS MyMathLab will automatically know what course you need to enroll in.

2. You may be dropped IF YOU HAVE NOT PURCHASED the access code by Wednesday January 29th. (Remember if you purchase an 18-week access code use the free trial first and pay for it after 1/20/2019 but before 1/29/2019)

3. You may be dropped if you have TWO or more consecutive missing assignments at any point within the dropping period.

NOTE: If you want to drop the class, make sure that you do so on Webadvisor, do not depend on me to drop you.

Absences and Tardies

- There are no excused absences, emailing me or calling me does not excuse an absence.
- If you arrive after I take attendance but less than 20 minutes late you will be marked tardy, or if you leave less than 20 minutes early you will be marked tardy. (Make sure to write your name on the board if you arrive tardy, so that I remember to change your status from absent to tardy)
- If you arrive more than or equal to 20 minutes late or leave more than or equal to 20 minutes early then you will be marked absent.
- You will be deducted 5 points of participation for a tardy and 10 points for an absence

Classroom Behavior

- Absolutely no cell phones (You may lose participation points for the day, unless we are using them as part of the lesson).
- In general, be considerate. We are here to learn.

Important Dates

1/24/2020: Census-Last Day to ADD/DROP a full-term class for a full refund
1/31/2020: Last day to drop to avoid a "W" in person
2/2/2019: Last day to drop to avoid a "W" on Webadvisor
3/13/2019: Final Drop Deadline, a letter grade will be assigned after this date
5/18/2019: Final Exam 10:00 – 11:50

Grading

Grade	Range
A	90 – 100%
B	80 – 89%
C	70 – 79%

D	60 – 69%
F	0 – 59%

Grade Category	Weight
Tests	70%
Quizzes, Activities	5%
Participation	5%
Homework	20%

YOUR GRADE IS THE GRADE ON THE CANVAS GRADEBOOK (NOT THE GRADE ON MYMATHLAB).

Testing

Follow Directions, be prompt, NO CELL PHONES allowed. Testing must be completed in a single sitting, you may not leave the room. The SCCCD policy regarding ACADEMIC DISHONESTY will be applied when appropriate.

Academic Dishonesty

Cheating is the act or attempted act of taking an examination or performing an assigned, evaluated task in a fraudulent or deceptive manner, such as having improper access to answers, in an attempt to gain an unearned academic advantage. Cheating may include, but is not limited to, copying from another's work, supplying one's work to another, giving or receiving copies of examinations without an instructor's permission, using or displaying notes or devices inappropriate to the conditions of the examination, allowing someone other than the officially enrolled student to represent the student, or failing to disclose research results completely.

Plagiarism is a specific form of cheating: the use of another's words or ideas without identifying them as such or giving credit to the source. Plagiarism may include, but is not limited to, failing to provide complete citations and references for all work that draws on the ideas, words, or work of others, failing to identify the contributors to work done in collaboration, submitting duplicate work to be evaluated in different courses without the knowledge and consent of the instructors involved, or failing to observe computer security systems and software copyrights.
Incidents of cheating and plagiarism may result in any of a variety of sanctions and penalties, which may range from a failing grade on the particular examination, paper, project, or assignment in question to a failing grade in the course, at the discretion of the instructor and depending on the severity and frequency of the incidents.

Student Learning Outcomes

Upon completion of this course, students will be able to:
1. Analyze properties of various types of functions.
2. Synthesize results from the graphs and/or equations of functions.
3. Solve various types of equations and inequalities.
4. Apply appropriate techniques to model real world applications.
5. Use formulas to find sums of finite and infinite series.

Course Objectives

In the process of completing the course, the student will:

1. Analyze and investigate properties of functions, including linear, polynomial, absolute value, rational, radical, exponential, and logarithmic functions;
2. Synthesize results from the graphs and/or equations of functions, including linear, polynomial, rational, radical, exponential, and logarithmic functions;
3. Apply transformations to the graphs of functions;
4. Recognize the relationship between functions and their inverses graphically and algebraically;
5. Solve and apply rational, linear, polynomial, radical, absolute value, exponential, and logarithmic equations and solve linear, nonlinear, and absolute value inequalities;
6. Solve systems of equations and inequalities;
7. Apply techniques for finding zeros of polynomials and roots of equations;
8. Apply functions and other algebraic techniques to model real world applications;
9. Analyze conics algebraically and graphically; and
10. Use formulas to find sums of finite and infinite series.

Course Outline

1. Functions including linear, polynomial, rational, radical, exponential, absolute value, logarithmic: definitions, evaluation, domain and range;
2. Inverses of functions;
3. Algebra of functions;
4. Graphs of functions including asymptotic behavior, intercepts, vertices;
5. Transformations of quadratic, absolute value, radical, rational, logarithmic, exponential functions;
6. Equations including rational, linear, polynomial, radical, exponential, absolute value, logarithmic;
7. Linear, nonlinear, and absolute value inequalities;
8. Systems of equations and inequalities;
9. Characterization of the zeros of polynomials;
10. Properties and applications of Complex numbers;
11. Properties of conic sections; and
12. Sequences and series.

Optional Topics
1. Partial Fractions
2. Introduction to Limits
3. Polar Coordinates
4. Introduction to Matrices

Disclaimer

Ms. Andrade-Romeo reserves the right to make changes to the syllabus with whole class notificati