Math 3A College Algebra

COURSE SYLLABUS

CONTACT INFORMATION

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Office Hours: M-W 9-9:50am

INSIDE THIS SYLLABUS:

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.

Advisories: Eligibility for English 1A

Prerequisites: Math 103

Course Objectives

In the process of completing this course, students 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;

10. Use formulas to find sums of finite and infinite series.

Student Learning Outcomes

Upon completion of this course, students will be able to:

1. Produce and interpret graphs of various functions and relations.

2. Apply techniques to solve various types of equations, systems of equations, and inequalities.

3. Use the topics of the course to model real-world situations.

4. Apply techniques to simplify, and manipulate various expressions using the skills obtained in the course.

Required Materials

This course has **ZERO** textbook and materials costs!!

⇒ Graphing Calculator — Free checkout in the RC Library

⇒ OpenStax Textbook — Free online and on Canvas

⇒ Canvas App — Free

⇒ Desmos App — Free

College
Alg-ebra
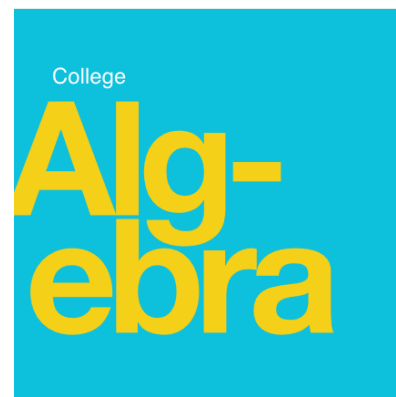
Attendance and Participation

Regular class attendance is expected. It is your responsibility to withdraw from the class with Admissions & Records if you find that you can no longer attend or possibly receive an F.

If you reach 8 absences, **for any reason,** you will be dropped from the class.

Being an active participant in class is key to your success. Therefore, If you are tardy, leave early, or leave class and return later, this will affect your attendance count, as will doing unrelated work, homework or using electronic devices during class. (i.e. cell phones, MP3 players, etc.) You will be considered late if you arrive after attendance has been taken.

You **may** be dropped for excessive tardiness or after 4 absences.
Each tardy is equal to one half of an absence,
i.e. 2 tardies = 1 absence

If you do not sign the attendance sheet you will likely be marked absent.

Assignments & Exams

In-Class Work

You will be working in groups regularly in this class. Worksheet grades will be based on completeness and participation in your group. **Worksheets can be found on Canvas but participation grades cannot be made up if absent.**

Study Assignments & Quizzes

Reading and/or video may be assigned prior to class. There will be a quiz either in class or online to ensure the material has been learned.

Homework

Homework is assigned on Thursday each week and due the following Wednesday. We will be using a FREE online homework system embedded in Canvas.

Late Work

Turning an assignment in late for **any reason** will result in a 40% point reduction. Late work must be turned in within a week of the original due date. Late extra credit assignments will not be accepted.

Exams

There will be four exams and a cumulative final exam in this course. **No make-ups will be allowed for exams.** If you know you will be absent on the day of an exam, you may take it early. If absent on the day of an exam for a emergency, **one** missed exam score will be replaced with your final exam percentage. Being unprepared for the exam is not a legitimate excuse for missing an exam.

"I have discovered a truly marvelous proof of this, which however the margin is not large enough to contain."
-Pierre de Fermat (referring to his 'last theorem')

Academic Honesty

Students at Reedley College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure that this education is honestly attained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entirely honest effort in all academic endeavors.

Academic dishonesty in any form is a very serious offense and will incur serious consequences, including but not limited to receiving a grade of F on the assignment or in the course. For the college policy on cheating and plagiarism see the college catalog.

Grading & Drop Policy
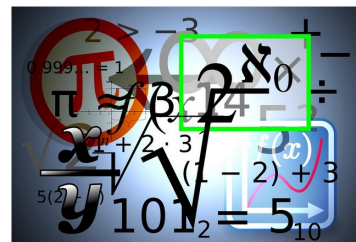
Grading Scale:

A	89.5% - above
B	79.5%-89.4%
C	69.5%-79.4%
D	59.5%-69.4%
F	59.4% and below

Grading:

50% Tests

20% Final Exam

20% Homework

10% Quizzes, Worksheets, and Participation

Finding your Grade:

I will be recording your grades and attendance on Canvas.

I strongly recommend you check it regularly for accuracy so there are no surprises at the end of the semester.

Tip: Use the 'What if' option to see how possible assignment scores will effect your grade.

Resources

Your Instructor

I will be happy to help you at the beginning of class or in my office. My office hours are listed at the beginning of this syllabus. If you cannot come during my office hours you can make an appointment to come at a different time. You may also ask questions through the homework system, email, and Canvas.

Embedded Tutor

We have an embedded tutor in our class who will form study groups to work with you outside of class.

Math Study Center, FEM 1

Open M-Th 8am-4pm, F 8am-12pm

The STEM Math Study Center is a free tutoring resource available to all Reedley College math students. The MSC offers drop-in tutoring with math faculty and student tutors. There are also 20 computers available to access online math homework.

Tutorial Center, Library

Open M-Th 8am-5pm, F 8am-4pm

The Tutorial Center also offers free tutoring by appointment and on a drop-in basis to all Reedley College Students. Tutoring appointments are a mix of small group and one-on-one sessions.

"Do not worry to much about your difficulties in mathematics, I can assure you that mine are still greater." - Albert Einstein

Accommodations for Students with Disabilities

Disabled Students Programs & Services (DSP&S) is designed to provide specialized services and accommodations that assist students with documented physical, psychological and learning disabilities reach their maximum potential while achieving their educational goals. Staff specialists interact with all areas of the campus to eliminate physical, academic and attitudinal barriers. Disabled Students Programs & Services takes a personal interest in meeting the special needs of students with disabilities.

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic tex, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.
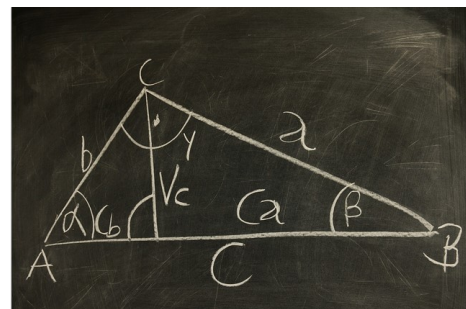
Important Dates *

Monday, January 14	Start of Spring 2019 Semester
Monday, January 21	Martin Luther King, Jr Day (no classes held, campus closed)
Friday, January 25	Last Day to Drop for a full refund
Friday, February 1	Last day to register in person
Sunday, February 3	Last day to drop with a "W" (on WebAdvisor)
Friday, February 8	Last day to change class to/from Pass/No-Pass grading basis
Friday, February 15	Lincoln Day (no classes held, campus closed)
Monday, February 18	Washington Day (no classes held, campus closed)
Friday, March 8	Last Day to drop a full-term class (letter grade assigned after this date)
Mon.-Fri., April 15-19	Spring recess (no classes held, campus closed)
May 20-24	Final Exams week

Tentative Calendar

JANUARY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14 Semester Begins	15 1.2	16 1.3	17 1.4	18	19
20	21 No School	22 1.5	23 2.1	24 2.2	25*	26
27	28 2.2	29 2.3	30 2.5	31 2.5		

FEBRUARY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1*	2
3*	4 2.6	5 2.6	6 2.7	7 2.7	8*	9
10	11 Review	12 **Exam 1**	13 3.1	14 3.2	15 No School	16
17	18 No School	19 3.3	20 3.4	21 3.5	22	23
24	25 3.5	26 3.6	27 3.6	28 3.7		

MARCH

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4 4.1	5 4.2	6 Review	7 **Exam 2**	8*	9
10	11 5.1	12 5.1	13 5.2	14 5.3	15	16
17	18 5.4	19 5.5	20 5.6	21 5.6	22	23
24	25 5.7	26 5.7	27 6.1	28 6.2	29	30

APRIL

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1 6.3	2 6.4	3 Review	4 **Exam 3**	5	6
7	8 6.5	9 6.6	10 6.6	11 6.7	12	13
14	15 No School	16	17	18	19	20
21	22 7.1	23 7.2	24 7.3	25 7.3	26	27
28	29 7.4	30 7.4				

MAY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 Review	2 **Exam 4**	3	4
5	6 8.1	7 8.2	8 8.2	9 8.3	10	11
12	13 9.1	14 Review	15 Review	16 Review	17	18
19	20 Finals Week	21	22 **Final Exam** **10-11:50am**	23	24	25
26	27	28	29	30	31	