

Math 3A-College Algebra

Course Syllabus-FALL 2021 Section #59003

Class:

In Person

Instructor:

Mr. Garcia

e-mail:

jose.garcia@reedleycollege.edu or jogarciamath@gmail.com

Period 2	M-F
Time	9:06 a.m.-10:04 a.m.

WELCOME to College Algebra: Students who attend class regularly, come prepared to class, participate in class, take notes, do the assignments, and pass the assessments should be successful. You **MUST** try and do your **BEST** to ensure success in this class. To pass this course you will need a C or better grade to move on to the next level.

Course Communication Policy:

The best way to get ahold of me is by sending a message through the messaging system in Canvas. at jogarcia@dinuba.k12.ca.us at jogarciamath@gmail.com. I will respond to your concerns or questions within 24 hours Monday-Saturday. I may be able to respond to you on Sundays upon an opportunity but I don't promise anything. If you don't hear from me within 24 hours then resend your message via Canvas or email. Remember, this the best communication method to reach me.

Course Information:

Welcome to Math 3A, College Algebra! Our section number is 59003.

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.

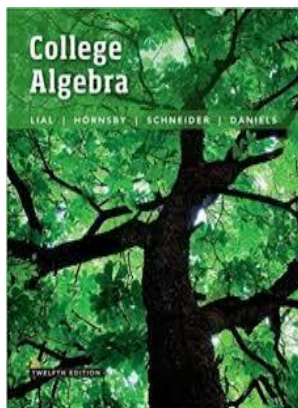
- Advisories: Eligibility for English 1A or 1AH
- Prerequisite(s): Math-103 or equivalent
- Credits: 4 units

Course Materials:

Required: Calculator, needs to be at least scientific. You can use a **TI-30XIIS at minimum**. If you are going to continue taking Math courses then I recommend to use TI-84 or PLUS (can be checked out at Reedley College Library with your RC ID). You will need visit the Reedley College Library website at, <https://www.reedleycollege.edu/campus-life/library/index.html> for more information. **Tips:** Submit a request or fill out a form via online, and they are opened M, W, F 9:00 AM – 12:00 PM, 2:00 PM – 5:00 PM for pick up. You can also find other information on their website. For other questions, you can reach the Reedley College Library at 559-638-0352. You can use Desmos

<https://www.desmos.com/calculator>. There is a free Desmos app you can download on your smart phone.

Required: A hard copy of the textbook. We are using *College Algebra* 12th Edition by Lial, Hornsby, Schneider, and Daniels. Publisher is Pearson, copyright year 2017.



Student Learning Outcomes:

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

- Analyze properties of various types of functions.
- Synthesize results from the graphs and/or equations of functions.
- Solve various types of equations and inequalities.
- Apply appropriate techniques to model real world applications.
- Use formulas to find sums of finite and infinite series.

Course Objectives:

In the process of completing this course, students will:

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

Course Schedule:

(Subject to change)

Week 1: Equations and Inequalities (**Chapter 1:** 1.1, 1.2,1.3)
Week 2: Equations and Inequalities (**Chapter 1:** 1.4, 1.5 (skip), 1.6, and 1.7)
Week 3: Equations and Inequalities (**Chapter 1:** 1.8, Ch 1 Rev., Ch 1 Test and 2.1)
Week 4: Graphs and Functions (**Chapter 2:** 2.2, 2.3, 2.4 and 2.5)
Week 5: Graphs and Functions (**Chapter 2:** 2.6, 2.7, and 2.8)
Week 6: Graphs and Functions (**Chapter 2:** Ch 2 Rev., Ch 2 Test, 3.1, and 3.2)
Week 7: Polynomials and Rational Functions (**Chapter 3:** 3.2, 3.3, and 3.4)
Week 8: Polynomials and Rational Functions (**Chapter 3:** 3.5, 3.6, Ch 3 Rev., and Ch 3 Test)
Week 9: Inverse, Exponential, and Logarithmic Functions (**Chapter 4:** 4.1, 4.2, and 4.3)
Week 10: Inverse, Exponential, and Logarithmic Functions (**Chapter 4:** 4.4, 4.5, and 4.6)
Week 11: Inverse, Exponential, and Logarithmic Functions (**Chapter 4:** Ch 4 Rev., Ch 4 Test, 5.1, and 5.2)
Week 12: Systems and Matrices (**Chapter 5:** 5.3, 5.4, 5.5, and 5.6)
Week 13: Systems and Matrices (**Chapter 5:** 5.7, 5.8, Ch 5 Rev. and Ch 5 Test)
Week 14: Analytic Geometry (**Chapter 6:** 6.1, 6.2, and 6.3)
Week 15: Analytic Geometry (**Chapter 6:** 6.4, Ch 6 Rev., and Ch 6 Test)
Week 16: Thanksgiving week [11/2-11/26] (No School)
Week 17: Further Topics in Algebra (**Chapter 7:** 7.1, 7.2, and 7.3)
Week 18: Tentative Final Exam: Wed. 12/8/21

Homework:

The homework assignments will account for 30% of your grade. Most of the homework assignments will be done on paper. Once we complete a section, a new assignment will be added to your work load. Any assignments assigned during a week will be due the following Monday evening in our class meeting time.

Importance Notice:

While working on an assignment, you do not have to complete an entire assignment in one seating. If you choose to stop for a while, make sure you can come back to work on the assignment and continue where you left off at another convenient time.

Tutorial Services and Resources:

[The Math Center in the FEM](#) building at Reedley College

- Free tutoring in the Math Center (virtually).
- Tutoring will be available at <https://tutor.com/>
- Your classmates
- YouTube also has many good videos or other websites you find the are helpful.
- [Video for the Academic Support Centers](#)
- **Note:** If you have any questions you would like to ask of me, your, please ask me during class time or contact me via email and I will do my best to help you.
- **Mr. Garcia's office hour on Friday at 3:08 p.m.-4:08 p.m.**

Late Homework Policy:

Once the due date and time have passed an assignment is considered late. You can work on all late assignments and earn up to 90% of the credit (it will be based on your effort!) until the final exam at the end of the semester. I strongly recommend to stay on track, and don't put off your assignments because they get accumulated very quickly as we progress throughout the semester.

Extra Credit:

There are no extra credit opportunities available for this class.

Exams:

There will be several chapter exams including Chapter 1, Chapter 2, Chapter 3, Chapter 4, Chapter 5, Chapter 6, Chapter 7 will be on the Final Exam, so we won't have a separate exam on chapter 7 and the final exam. All exams will have equal weight in your overall class grade percentage and your **OVERALL GRADE** will in PowerSchool. If you absolutely cannot take a test on the day of an exam is scheduled, you must discuss with me the possibility of taking the exam early or as soon as possible as instructed by your teacher. **Please send me an email or notify me ahead of time so I can make the necessary changes and you don't get a zero.**

Final Exam:

There will be a mandatory final exam at the end of the semester. It will be cumulative meaning on all material covered throughout the class. If a student misses an exam during the semester, then the final exam score will go in for that grade. If a student has not missed any exams, then the final exam will go in for the lowest exam given the final score is higher. As an example, say your scores are 90%, 75%, 60%, 80%, 77%, and 84% and you got an 85% on the final exam. Then in your overall grade, you would have an 85% for the final, and the Exam 3 that used to be 60% would be 85%. **The final exam for this class will take place on the week of December 6-10. The time and test date will be determined upon the final's week.**

Personal and Technology Emergencies:

I am well aware that sometimes emergencies occur. To account for these unexpected events, I have made the following allowances:

- The lowest **two-three homework assignments grades** will be dropped.
- The lowest **test grade** or a missed exam will be replaced by the final exam given the final exam is higher. ONLY counts for ONE case and not for both cases.

Grading Scale:

Percent Range	Letter Grade	Categories	Percent of Grade
89.5%-100%	A	Assignments	30%
79.5%-89.4%	B	Quizzes	10%
68.5%-79.4%	C	Exams and Final Exam	60%
59.5%-68.4%	D		
0%-59.4%	F		

Example:

As an example, breakdown of your overall final grade, let's say at the end of the semester you have an overall 76% for exams, 82% on assignments, and 70 on quizzes then you would compute your grade as follows;

$$(0.60)(76) + (0.30)(82) + (0.10)(70) = 45.60 + 24.60 + 7 = 77.2\%$$

- Your grade will then be determined by reading the above chart with the grading scale. Thus, your grade in the above example will be 77.2% or C.
- Note: To receive college credit you need at least 68.5% or C, or better to pass.

Important Dates:

August 9, 2021	(M)	First day of school
September 6, 2021	(M)	Labor Day (No School)
November 11, 2021	(Th)	Veteran's Day (No School)
October 15, 2021	(M)	Teacher PD Day/No School
November 22-26, 2021	(M-F)	Thanksgiving/No School
October 8, 2021	(F)	Last Day to drop a full-terms class (letter grades assigned after this date)
December 6-10, 2021	(M-F)	FALL 2021 Final Exams Week
December 17, 2021	(F)	End of Fall Semester (in DHS)
December 20-January 4, 2021	M-W	Winter Break/Christmas

College Policies:

Special Needs Requests:

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, you are encouraged to provide me with your notification of authorized services form from DHS counselor and consult with me immediately so that arrangements can be made.

Academic Integrity:

You are expected to be honest. In this course, that primarily means you should never submit work that is not your own. This does not mean that you are not allowed to work with other students. I encourage you to collaborate on homework problems! It is often more fruitful and enjoyable to work with other people when trying to figure something out. They can give you a fresh insight or different perspective on the problem. Conversely, explaining your idea to another person forces you to clarify your thoughts and can help to highlight flaws you may have previously overlooked. However, if you work with others to come up with a solution, afterward you should write up your work on your own. You should not base your homework on another's student's homework, and never put your name on something you do not understand.

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.

Disruptive Students:

Disruptions will not be tolerated. It is my goal to provide the most comfortable and welcoming environment in our class. Cell phones are only allowed in class when taking a picture of something on the board, researching a topic in class, or using them for activities during class (such as Kahoot!).
`Reedley College's Student Code of Conduct Policy (Board Policy 5520 and Educational Code

76032) authorizes an instructor to remove a disruptive student from his or her class for the day of the removal and the next class meeting. The instructor shall immediately report the removal to the Vice President of Student Services. During the period of removal, a student shall not be returned to the class from which he or she was removed without the concurrence of the instructor of the class" (Reedley College Catalog pg 49).

Student Rights:

``Student rights are protected by federal and state laws, and by policies established by the trustees of the State Center Community College District. It is therefore essential for the protection of students' rights that procedures be established and followed which would identify violations of student conduct standards and the resolutions of such violations. Students have a right to an oral or written notice (reasons for disciplinary action), an opportunity for a review, and a decision given orally or in writing. For more information contact the Vice President of Student Services' office. (Board Policy 5520, Administrative Regulation 5520)" (Reedley College Catalog pg 49).

Drop Policy:

Student Drops: If you choose to drop this course, then it is your responsibility to reach out to Mr. Garcia. Keep in mind that there are some guidelines that you need to follow as well as drop dates. Please see important dates under the table of important dates on this Syllabus above.

Notice: *This Syllabus is subject to change at the discretion of the Math instructor.*