

**AFRED STATE COLLEGE
COLLEGE ALGEBRA SYLLABUS**

Math 1034
Fall 2022
Prerequisite: Algebra 2/Trig

Precalculus
Credit Hours: 3
Class meets: 225 min per week
Instructor: Rolland Duttweiler
Phone: 585-268-7900 ext 1111
Email: rduttweiler@genvalley.org

TEXT: Precalculus with Limits by Larson (2nd edition)
College Algebra Workbook

GENERAL INFORMATION:

This course is being offered through Alfred State College. Students will be given an opportunity to earn college credits upon successful completion of this class and an accepted registration from Alfred State. The student is expected to have a working knowledge of the TI-83+ and/or TI-84+ graphing calculator which will be used extensively. The student is also expected to have access to a graphing calculator daily. Topics will be taken at a quick pace. The student is expected to read and utilize the textbook. Extra assistance is available outside the classroom by appointment either before or after school or during select periods.

The following are the student learning outcomes for this course as taken from Alfred State:

Upon completion of this course, you should be able to...

- 1) Multiply, simplify and factor polynomial expressions.
- 2) Simplify, add, subtract, multiply and divide rational expressions and radical expressions.
- 3) Solve linear, quadratic, absolute value, rational and polynomial equations and inequalities.
- 4) Graph linear, quadratic, polynomial and rational functions.
- 5) Calculate the slope of a line, find the equations of a line given two points and construct a linear model for paired data using a graphing calculator.
- 6) Solve 2x2 linear systems of equations via elimination and substitution, describe the solution set to a system of linear inequalities and solve linear programming problems.
- 7) Solve verbal problems by translating them in the appropriate mathematical framework.

ASSESSMENTS AND GRADING:

Your course grade will be determined based on approximately 625 total points. It is simply the percentage of points you earn divided by the total possible. The breakdown is as follows:

- Tests (5) 250 points total
- Problem Set HW (5) 125 points total
- Quizzes (6) 150 points each
- Final Exam 100 points

GRADE REPORTING

- The grade recorded on each student's report card will be the grade earned plus 5 points (as per Genesee Valley Central School Policy relating to college courses).
- The grade sent to Alfred State will be a letter grade based on the following scale:

Grade earned (not curved)	Grade earned (curved)	Grade sent to Alfred State
90-100	95-105	A
86-89	92-94	B+
80-85	85-91	B
76-79	82-84	C+
70-75	75-81	C
66-69	72-74	D+
60-65	65-71	D
0-59	0-64	F

EXAMS

There will be five in class exams which will be composed of approximately two units each. Each exam is worth 50 points. If you are absent from school, it is expected that you will take the exam the first day you are back in school during a study hall, before, or after school. You are responsible for making these arrangements. If it is not done, a zero will be recorded for that grade. Any sharing of information during an exam, electronically or otherwise, will result in a zero for all parties involved.

WEEKLY HW

Every two weeks or so a problem set will be assigned. Each assignment is worth 25 points. It is due the day stated by 3:00 pm. An absence will not delay the due date. Mr. Duttweiler must receive all homework assignments on or before the due date. A 10% penalty is assessed per day for all late work (this includes weekends). Assignments may be submitted electronically. All homework must be neat, organized and easily read.

MINI - QUIZZES

Mini-quizzes will be given often, depending on the content being covered. They will last 5-10 minutes and will consist mainly of practice type questions. Extra time will not be granted.

ATTENDANCE

Attendance will be taken every day and is essential for success in this class.

FINAL EXAM

You **must get at least a 60** on the final exam for credit to be sent to Alfred State. Extenuating circumstances will be given consideration.

Expectations: High School students taking college courses are expected to maintain high grades. Effort is a key component to success in the program. Students who seem to be lacking in either effort or performance may be asked to leave the program.

College Algebra Timeline Fall 2022 (Tentative)				
Week of:	Misc Info:	Tests	Assignments	Quizzes
September 5, 2022	Review from Alg 1 and 2			
September 12, 2022	Review from Alg 1 and 2			#1 --9/16/22
September 19, 2022	Review from Alg 1 and 2	Test #1 9/23		
September 26, 2022	Functions and Their Graphs		HW #1 -- 9/30/22	
October 3, 2022	Functions and Their Graphs/NC 10/8			#2 --10/6/22
October 10, 2022	Functions and Their Graphs/NC 10/11	Test #2 10/14		
October 17, 2022	Polynomials and Rational Functions			#3 --10/21/22
October 24, 2022	Polynomials and Rational Functions		HW #2 -- 10/28/22	
October 31, 2022	Polynomials and Rational Functions	Test #3 11/4		
November 7, 2022	Linear Regressions			#4 -- 11/9/22
November 14, 2022	Systems of Equations		HW #3 -- 11/18/22	
November 21, 2022	Thanksgiving Break			
November 28, 2022	Systems of Equations	Test #4 12/2		
December 5, 2022	Solving Equations All Functions			#5 -- 12/9/22
December 12, 2022	Solving Equations All Functions		HW #4 -- 12/16/22	
December 19, 2022	Solving Equations All Functions	Test #5 12/22		
December 26, 2022	Christmas Break			
January 2, 2023	Review for Final		HW #5 -- 1/6/23	
January 9, 2023	Review for Final			#6 -- 1/13/23
January 16, 2023	Review for Final			
January 23, 2023	Final	Final (1/27-28/23)		