

Queen Creek High School – Precalculus Syllabus

Dual Credit Course (CGCC) – Mat 187

Text	Precalculus with Limits, A Graphing Approach Larson, Hostetler, Edwards		
Instructor	Fred Clare		
Phone	Home 480-987-5900 ext 5551		
e-mail	fclare@qcusd.org		
Materials	TI-83 or TI-84 graphing calculator or equivalent, 3-ring 2” Notebook, pencil, paper, graph paper. Students <u>cannot</u> use a TI-89 calculator or a one with a Computer Algebra system.		
Link to online Help	http://www.coolmath.com		
Course Description	This course will be an in-depth analysis of relations, functions, and their graphs. Precalculus combines topics from college algebra and trigonometry. We will explore and study polynomial functions, rational functions, trigonometric functions, polar coordinates, complex numbers, and exponential and logarithmic functions. This is a dual credit course which means a student will receive high school credit for successfully completing the course but can also receive college credit by concurrently enrolling in Chandler Gilbert Community College and paying the tuition for the class. This class will be worth 5 college credit hours. Applications for enrolling in the college class will be sent home with the students in August. Payment for the class is usually due the middle of September.		
Course Topics	1 st semester	Chapter 1 Chapter 2 Chapter 3 Chapter 4 Chapter 5	Functions and their Graphs Polynomials and Rational Functions Exponential and Logarithmic Functions Trigonometric Functions Analytic Trigonometry
	2 nd semester	Chapter 6 Chapter 7 Chapter 8 Chapter 9 Chapter 10	Additional Topics in Trigonometry Linear Systems and Matrices Sequences, Series, and Probability Topics in Analytic Geometry Analytic Geometry in 3 dimensions

Accelerated Math

Accelerated math is a program that I use occasionally to help with the mastery of some of the essential mathematical skills we are learning. In this program if the student does not meet the mastery criteria of 80% or better, he or she must redo the assignment until this criteria is met. When given as a homework assignment there is no penalty for having to redo the assignment but no credit is given until the criteria is met. When given as a quiz there may be a penalty for having to redo the assignment.

Grading

Homework, warm-ups	15%
Tests, Quizzes, Projects	65%
Final Exam	20%
	100%

<u>Grading scale</u>	89.5%-100%	A
	79.5%-89.4%	B
	69.5%-79.4%	C
	59.5%-69.4%	D
	0%-59.4%	F

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Homework

Homework is an important part of any math class and is a determining factor in how well a student performs on tests. Homework will be assigned on a nightly basis and is expected to be turned in the next day. Late work **will not** be accepted and partially completed assignments will not receive full credit.

Attendance

Regular attendance is expected. If you know you will be absent (including school related absences), the work is due prior to the absence. Absences are not a valid reason for being unprepared for class, not turning in assignments on time or for missing a test or quiz. If a student has missed class from an excused absence then they will have two days to turn in any missing work and make-up any missed tests or quizzes. A student may not make up any work resulting from an unexcused absence, please refer to the student handbook for the definition of an excused and unexcused absence.

Tests and Quizzes

There will be a cumulative test at the end of each unit. If a student does not receive a minimum satisfactory grade of a 70% on an exam they are given the option to come in for tutoring and a retake exam before/after school or at lunch. The retake exam will replace the previous exam grade with a 10 % penalty (for example if a student receives a 95% on the retake exam then it will be entered as a 85% in the grade book). A student may only retake a unit test one time.

Make-Up Exams

Tests will not be made up during class hours. It is your responsibility to make arrangements with me to come in and make-up a missed test or retake a unit test.

Cumulative Final

A cumulative final exam will be administered at the end of each semester (see QCHS handbook for final exam schedule). The final exam is worth 20% of the students' final grade.

Cumulative Final for Mat 187

The comprehensive common final exam must be taken. As per Chandler Gilbert Community College, students who score less than 60% on the final exam will receive a grade no higher than a "D" no matter what their grade is going into the final..

Tutoring

Help is available on Tuesday and Thursday from 2:00 – 3:00 as well as other days by appointment.

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Calculator Usage

Precalculus and Calculus students will be using a graphing calculator often in class. The math teachers use the TI-83/TI-83 Plus or TI-84/TI-84 Plus on the overhead projectors in class, and as a result we are most familiar with these calculators. Students using the same calculator or one similar will have an easier time following along with the instructor. The teacher may or may not be familiar with other types of calculators; therefore, the student is responsible for learning how to operate his/her calculator. A graphing calculator that does symbolic manipulation (solve an equation, factor an expression, find the derivative of a function, etc.), such as the TI-nspire CAS, TI-89 or TI-92 will not be permitted in class.

Math Department Policies

Mission Statement:

The mission of the QCHS mathematics department is to facilitate the growth and development of each student as an actively engaged, responsible, independent learner of mathematics, and the applications thereof.

Instructor Expectations:

- I will do my best to make the course meaningful for every student.
- I will try hard to plan interesting and useful activities and assignments.
- I will strive to provide valuable feedback to you on your work.
- I will be fair in evaluating your work.
- I promise to maintain a positive attitude at all times.
- I will have excellent attendance and begin and end class on time.
- I will be available for individual help.

Student Expectations:

- I expect you to attend every class on time.
- I expect you to be prepared for every class by doing the homework assignments and bringing the required materials.
- I expect you to participate in class activities and discussions
- I expect you to contact the teacher or another student when you are absent to find out your assignments.
- I expect you to be courteous and respectful to the teacher and your classmates and to not distract the educational environment in any way.
- I expect you to maintain a positive attitude.
- I expect you to follow all school rules.

Consequences

1 st Offense:	Warning/Conference with student - Documented in student record
2 nd Offense:	Parents/Guardian notified
3 rd Offense:	Conference/ Meeting with Parent or Guardian
4 th Offense:	Written referral/ Parent contact
Severe offence:	Security will remove student immediately. Administrator Conference

Positive Rewards

Praise
Positive notes home
Grade Certificate
Various other positive perks

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Students:

I have read the syllabus and student expectation plan for Mr. Clare's Precalculus Class.

I understand it and will honor it.

_____ Student Name	_____ Student Signature	_____ Date	_____ Hour
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Parents:

My Child has discussed the syllabus and student expectation plan with me. I understand it and will support it.

_____ Parent/Guardian Name	_____ Parent/Guardian Signature
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Parent/Guardian e-mail

Parent/Guardian e-mail

Parents/ Gaurdian phone

Parents/ Gaurdian phone

Parents/ Gaurdian phone