

**QUEEN CREEK HIGH SCHOOL
MATHEMATICS DEPARTMENT
2014-2015**

Course:	Honors Pre-AP Algebra II with Trigonometry
Instructor:	Mr. Plunk
Contact Information:	480.987.5973 ext. 4673 dplunk@qcusd.org
Website:	https://sites.google.com/a/qcusd.org/dplunk/
Room Number:	G 109
Office Hours:	By Appointment: Before School, Lunch & After School Achievement Hour: Tuesday – Friday
Prerequisites:	Successful completion of Honors Geometry or Geometry with teacher recommendation.
Textbook:	Larson et al., <i>Algebra 2</i> , McDougal Littell, 2007 Edition.

Calculator Requirements:

A graphical calculator is required for this class. All teacher demonstrations will be conducted using the TI-83 Plus. Students may use a TI-84, TI-83 or TI-82.

Course Description:

This honors course includes a rigorous study of solution techniques for polynomial equations, properties of functions, logarithms and exponents, coordinate geometry, complex numbers, conic sections, matrices, arithmetic and geometric sequences, and a study of trigonometry and its applications. This honors course is intended for the student of high mathematical ability and interest.

Course Competencies:

1. Number Sense and Algebraic Fundamentals
2. Graphing Functions and Relations
3. Linear Functions and Inequalities
4. Solving Systems and Matrices
5. Quadratic Functions and Complex Number Operations
6. Higher Degree Polynomial Functions and Complex Numbers
7. Exponential and Logarithmic Functions and Applications
8. Sequences and Series
9. Properties of Rational Algebraic Functions
10. Properties of Irrational Algebraic Functions
11. Conic Sections and their Applications
12. Trigonometric/Circular Functions and Applications
13. Probability and Statistics

Disclaimer Course content and competencies may vary from this outline to meet the needs of this particular group.

Materials Needed:

1. 3-ring Binder (1-1½ in) with tabs labeled NOTES/NOTESHEETS, HOMEWORK, & QUIZZES
2. Loose-leaf paper & Graph paper
3. Several pencils with good erasers (**assignments/quizzes/tests should be done in pencil**)
4. Graphing Calculator

Attendance/Tardies:

Refer to the student handbook for the complete attendance and tardy policy. You are expected to be in the room when the bell rings. Attendance is vital to success in this course.

Classroom Rules:

1. Be respectful of everyone in the room, as well as the classroom environment.
2. Come to class prepared.
3. Self-advocate and take responsibility for your education. Please come to me, personally, with questions, problems, and concerns.
4. Electronic devices, including but not limited to mobile phones and personal listening devices (along with their earphones), are not allowed during class time.
5. No food or drink in class (water is okay).

Grading Policy:

<u>Grading scale</u>	<u>Semester</u>
A = 90-100%	Tests/Quizzes/Projects: 70%
B = 80-89%	Assignments/Class Activities: 15%
C = 70-79%	Final Exam: 15%
D = 60-69%	
F = 0-59%	

Grades can be accessed at any time from a computer with internet capabilities at https://qc.apscc.org/login_pxp.aspx. They may also be accessed through my website. I update grades very regularly, and hold the expectation that students and parents use this tool to track grades consistently.

Class/Homework:

Students are required to take **notes** in class. **Cornell Notes** are encouraged. Although some class time will be provided for students to work on their homework, students should expect some **homework each day**. I will have the assignments clearly written on the sideboard in the classroom, as well as posted on my website. Homework is graded on completion for a total of 5 points.

1. Assignments should be done in pencil.
2. Work must be shown for each problem.
3. Assignments must be clearly labeled.
4. Quality work is expected.
5. Late work will be accepted for ½ credit up to the end of the unit.

Quizzes/Tests:

Tests and quizzes will be given regularly throughout each chapter. **If a review day is missed, the student will still take the test with the class.** No extra credit will be given on a make-up exam. There will be no re-takes.

Make-up Policy:

It is the student's responsibilities at all times and **in all cases** to obtain, complete, and turn in work missed due to absences within the specified time.

- *Students have ONE DAY to make up missed work for each day that they are absent. Tests and quizzes must be made up before or after school or by appointment upon return.
- *Missed work due to an unexcused absence is considered late.
- *Missed tests or quizzes due to an unexcused absence will be given a zero.
- *In cases involving an off-campus suspension, missed tests and quizzes can be made up for credit. Classwork and assignments that are missed will be considered late.

Academic Misconduct:

Students caught cheating will receive a zero on that particular assignment or assessment. See below for examples of academic misconduct.

ACADEMIC MISCONDUCT

In general, academic misconduct is appropriating someone else's work and representing it as your own. Various types of academic misconduct include, but are not limited to:

Cheating: Partial or total copying from another person on an assignment, quiz, or test. Using or attempting to use unauthorized aids or materials during a quiz or test. For example:

- Copying another student's homework assignment.
- Using "cheat-sheets" during a test.

Plagiarism: Using the opinions, words, or statements of another person as your own without acknowledging the original source. For example:

- Quoting, summarizing, or paraphrasing another person's work without giving that writer credit for his/her work.
- Not listing all sources that were incorporated into your assignment.

Misuse of Computers and/or graphing calculators: Using computers in an unauthorized or inappropriate manner. For example:

- Damaging or altering computer records or settings.
- Invading another person's files, programs, or data.

Facilitating Academic Dishonesty: Helping or attempting to help another student with acts of academic misconduct. For example:

- Giving someone else your homework to copy.
- Telling another student the content of a quiz or test.

Unauthorized Collaboration: Working with another person on an assignment, quiz or test when specifically instructed not to do so by the teacher. For example:

- Completing a take-home test with another student when the teacher specifically prohibited group work.
- Working with another student on an assignment that the teacher defined as an individual assignment with no collaboration.