

ALGEBRA II/TRIGONOMETRY HONORS

COURSE EXPECTATIONS

Mr. Crego 2007-2008-- CORONADO HIGH SCHOOL

COURSE SCOPE:

This one-year course is for the college-bound student who desires a more rigorous course of study. Students will develop a more in-depth study of the concept of numbers from arithmetic to trigonometric and circular functions. Formal abstraction will enable students to understand and analyze data in many occupational and academic fields. Emphasis is placed on proof of mathematical and trigonometric assertions. The use of current technology, including graphing calculators and computer software, is an integral part of this course. This course will fulfill one of the mathematics credits required for graduation.

COURSE GOALS:

1. To understand the field properties of the complex number system and their uses in simplifying expressions and solving open sentences.
2. To solve real-world problems using algebraic techniques involving equations and inequalities.
3. To prove and validate algebraic and mathematical assertions using field properties and/or trigonometric techniques.
4. To develop different methods for solving systems of quadratic equations and inequalities.
5. To solve real-life problems involving absolute value, exponential, logarithmic, circular, and trigonometric functions.
6. To solve problems using linear programming and their application to limits.
7. To investigate finite and infinite sequences and series.
8. To explore a variety of relations through graphing parametric changes.
9. To structure solutions of real-life problems using matrices, transformations, coordinates, and vectors.
10. To interpret and predict events through data organization, counting principles, and algebraic functions.
11. To investigate the connections among trigonometric functions and polar coordinates, complex numbers, and series.
12. To investigate higher-degree polynomial functions and transformations on trigonometric functions thus extending problem-solving techniques using current technology.
13. To reason and communicate mathematically in order to apply learned concepts to new problem-solving situations.
14. To increase confidence in mathematical abilities so that students are encouraged to continue participation in higher-level mathematics classes.

COURSE OUTLINE:

First Quarter: Algebra Review, Pre-test, Chapters 1 – 4
Second Quarter: Chapters 5 – 8, Semester Exam review, Semester Exam
Third Quarter: Chapters 9 – 12
Fourth Quarter: Chapters 13 – 16, Semester Exam review, Semester Exam

TEXT:

The textbook used for this course is Algebra 2 and Trigonometry by Benson.

REQUIRED MATERIALS:

Everyday you will be required to bring to class your assigned textbook, your Cougar planner, your Algebra II/Trig Honors materials (spiral notebook, returned papers, and notebook paper), your homework, and a writing utensil (preferably a pencil), and a calculator. Graphing calculators are recommended.

EXTRA HELP:

I am available for extra help before and after school almost every day. Occasionally I will have meetings, parent conferences, or athletic events, so you may want to check with me first.

GRADING PROCEDURE:

Grades are determined by the number of points **you** earn per quarter.

Homework will be checked regularly. It must be done on standard notebook paper and have your name, the date, and the assignment number in the upper right-hand side of the paper. Homework is graded on the number of problems attempted, **not** on the number done correctly. Complete homework assignments are worth 3 points. Incomplete assignments are worth 2 points if more than half of the assignment is attempted, or 1 point if half or less of the assignment is attempted. **Late assignments will not be accepted. All work must be shown to receive credit on all homework assignments.**

Tests are given at the end of every chapter. They will be announced and they are usually worth 100 points. Tests must be taken in pencil or five points will be deducted from your score.

Quizzes, both announced and unannounced, usually worth 10 - 30 points each, will be given often. They will cover the material of the previous day or previous two days. Make sure you keep up with the material and homework.

Your final grade:

A	90% of total points	-----	100% of total points
B	80% of total points	-----	89% of total points
C	70% of total points	-----	79% of total points
D	60% of total points	-----	69% of total points
F	59.9% of total points or less		

Your quarter grade:

10%	- Vocabulary, Notebook Checks, and Planner Check
20%	- Homework
70%	- Tests and quizzes

If you are absent you are responsible for getting the make-up work. If you miss a test or quiz, you will be expected to take the make-up on the day you return to class. Please be prepared. All make up work for a chapter is due before you take the chapter test.

You are required to keep a spiral notebook and a folder/binder. Your spiral notebook is for your daily notes and should be a thorough account of the material covered in class. Each day your notes should start with the date, the section covered, and the objective(s) for the day. The folder/binder should contain all returned papers such as homework, quiz papers, and vocabulary, as well as general papers such as this course expectation sheet. **You are responsible for including notes and homework for the days that you are absent.**

Vocabulary will be given for each chapter. The day before the chapter test a vocabulary quiz will be given. The quiz will cover the vocabulary words from the chapter. If you are absent, this vocabulary quiz will need to be made up upon your return to class.

All work should reflect correct spelling and grammar.

Semester exams will be given at the end of each semester. The exam will be 20% of your semester grade. The exam will cover all material discussed during the semester. The semester exam grade will appear on your report card at the end of the semester.

Semester grades will be given at the end of each semester. The semester grade is calculated using the following formula:
[Two first quarter percentages + two second quarter percentages + one semester exam percentage] / (5).

Citizenship grades are given quarterly and are subjective. This grade is based on my evaluation of you as a cooperative, contributing member of this class. Things considered are attitude, attention, punctuality, courtesy, behavior, participation, and preparation.

Current grades are posted by student number every week. Current attendance and grades will also be available online through the Coronado web page. It is your responsibility to check your grade, look for missing assignments, and check for errors. If you do not notify me, I will assume that you agree with the posted grade.

CLASS RULES:

Timeliness Is Expected!! You must come to class on time. The Coronado tardy policy will be enforced

If you are late to class, no hall passes will be issued.

You will be quiet and orderly during class. It is expected that all persons in this class will be polite and courteous. You should treat all others with **respect** and fairness. This also applies to property that belongs to either the school or others.

No use of obscene or improper language.

Come to class prepared. You will need your book, spiral notebook, folder/binder, calculator, paper, pencils, and homework **everyday**.

There will be time to work on assignments during almost every class period. Use this time wisely to get your work done or to get extra help, if needed.

Water is the only food or drink allowed in class. Please have it in a spill-proof container.

All rules of Coronado High School apply in this classroom.

ACHIEVING SUCCESS:

To achieve success in this class, **good attendance is necessary**. It is also necessary to **study**, and that does not mean just doing your assignment. I am ready and willing to help you. If you get lost, are absent, or just feel like you need extra help, do not wait until it is too late!! Do not be embarrassed to ask for help.

Dear Parents/Guardians and Students,

Welcome Cougars! I have been looking forward to this opportunity to work with you during the 2005-2006 school year.

My name is Bill Crego and I will be one of the teachers of Algebra II/Trigonometry Honors. I believe that students need to be given opportunities to work both individually and cooperatively to learn and understand mathematical concepts. Not only will they have to do math, but to discuss and write about their understanding of the mathematical concepts they learn.

Most important to a student's educational progress is parental involvement. It is my hope that together we can have a positive impact on our students' learning. Please spend some time each day to ask about school and to check on your child's progress with homework and class. You may inquire about your student's progress by checking grades through the Coronado web page. If you have any questions about your student, please e-mail me at [William W. Crego@interact.ccsd.net](mailto:William.W.Crego@interact.ccsd.net) or call the school at 799-6800.

Sincerely,

William Crego

I have read and understand the above course expectations for Algebra II/Trigonometry Honors. I accept responsibility for the information they contain.

Student Name _____

Student Signature _____ Date _____

Parent/Guardian Name _____

Parent/Guardian Signature _____ Date _____