

# **APPLIED ALGEBRA 1B - 495**

## **COURSE EXPECTATIONS JOHN TURNER**

### **COURSE SCOPE:**

This second year course of the two-year Applied Algebra sequence is designed for the student who has successfully completed Applied Algebra 1A. Material focuses on developing algebraic problem-solving strategies. Emphasis includes working with systems of equations and inequalities, operations on polynomials, non-linear equations and functions, and integrating geometry and trigonometry concepts in real-world situations. Upon successful completion, a student may enroll in Intuitive Geometry or Geometry. Both courses in the Applied Algebra sequence must be successfully completed in order to fulfill the NCAA Algebra I requirement. This course will fulfill one of the mathematics credits required for graduation.

### **COURSE GOALS:**

1. To define, formulate, and solve a variety of problems applying the strategies and processes of algebraic modeling.
2. To extend the repertoire of strategies for estimating and computing solutions to process problems including signed numbers, exponents, radicals, and scientific notation.
3. To compare and contrast the real number system and its various subsystems.
4. To solve and graph real-world problems involving linear and quadratic equations and inequalities as well as linear systems.
5. To solve and graph systems of linear and quadratic equations and inequalities using a variety of methods.
6. To operate on polynomials, including multiplying and factoring.
7. To represent, analyze, and interpret real-world problems using graphs, charts, tables, and matrices.
8. To solve real-world problems involving geometry, measurement, probability, and statistics using algebraic techniques.
9. To investigate and solve problems using right-triangle relationships including trigonometric functions and the Pythagorean Theorem.
10. To increase mathematical confidence and promote flexible thinking through the use of cooperative activities enabling students to understand the connection between mathematics, algebra, and the real world.
11. To reinforce and maintain the skills mandated by the Nevada High School Proficiency Examination in Mathematics.

### **COURSE OUTLINE:**

First quarter: Ch. 8 and 13

Second quarter: Ch. 9 and 10

Third quarter: Ch. 11 and 14

Fourth quarter: Ch. 15

**TEXT:**

Glencoe Algebra, Concepts and Applications by Cummins, Malloy, McClain, Mojica, and Price

**REQUIRED MATERIALS:**

Everyday you will be required to bring to class your book, your notebook, your assignments, your Cougar Planner, and a writing utensil (preferable a pencil).

**CLASSROOM POLICY:**

It is your responsibility to keep and understand the information contained in this policy. It should be read carefully by you and retained for future reference. If you have any questions, be sure to have them clarified by myself immediately. The classroom rules listed are there so that the classroom will be a pleasant place to learn mathematics.

1. Students are to be in class on time. Students are expected to be in the classroom before the bell stops ringing. If late from another class or the office, bring an appropriate pass.
  1. First tardy – warning
  2. Second tardy – 15 huxlies or 20 minutes detention
  3. Third tardy – a tardy letter is sent home
  4. Fourth tardy – a phone call is made to your parents or guardians
  5. Fifth tardy – a student tardy referral
  6. Sixth or more tardy – the student is referred to the deans' office
2. Students are to be prepared for class each day.
3. Tests and quizzes should be done in pencil to be more efficient. Neatness and correct spelling are expected and appreciated.
4. No talking or disruption during the instructor's lectures. Raise your hand to ask or answer questions.
5. No talking during a quiz or test. Talking will be interpreted as cheating in this situation, and the student risks a zero on the paper.
6. No food or drink in the classroom. The exception is water (not flavored) in a water (not sport) bottle. If you bring in candy, food, or other types of drinks, you will be required to throw it away.
7. Seats will be assigned and the students are to remain seated in their assigned seats, unless otherwise directed.
8. All rules of Coronado High School apply in this classroom, including the dress code. All phones should be turned off and put away. Walkmans, Ipods, etc. should be turned off and put away, including the headphones.
9. It is the responsibility of the student to talk to the teacher concerning make-up work or make-up tests. Make-up tests will be arranged at the teacher's discretion. Concerning homework, for a day absent, the student will be given up to three days to make up the work.
10. Assignments are given almost every day, including on some Fridays. If time in class is given to work on your math assignment, the students are to use it for that math assignment, not that from another class. **EXTRA HELP WILL BE AVAILABLE BEFORE AND AFTER SCHOOL.**

11. Students are allowed two hall passes per nine weeks, and then hall passes are given at the teacher's discretion. Learning takes place in the classroom, not in the halls. If there is a medical reason, bring a note from a parent or guardian.
12. When the class bell starts class time, be prepared to start. Have your assignments ready to check, your book open, your notes out and opened to the appropriate place, etc. Make use of all class time – don't close shop too early. Get your work done in class if possible, even if it means working up to the bell.
13. No use of obscene or improper language.
14. It is expected that all students 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 the school or to others.

### **GRADING:**

Grading is done on the point system. Excessive absences make it difficult to attain points. If the absence count exceeds ten unexcused for the semester, it will be a signal that the student will lose credit for that class that semester. Chapter tests account for 50% of the quarter grade, quizzes account for 25% of the quarter grade, and homework accounts for 25% of the quarter grade. Letter grades are based on the following scale:

90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
Under 60%	F

Semester grades will be determined on 40% for each quarter's points and 20% for the semester exam.