

Advanced Algebra II Course Syllabus

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Course Description: Advanced Algebra II is a second-year algebra course with an overall theme of problem solving. The course will cover material at an accelerated pace. More in-depth thought and knowledge will be expected from the students than the Algebra II course. The overriding themes of the course are: algebraic manipulation, problem solving, equation solving, modeling, graphing, and probability/statistics.

Course Outcomes: The essential skills and concepts that will be covered in this course are:

Semester One:

- Factoring
- Investigation
- Functions (Part 1)
- Sequences
- Application of Sequences
- Variable Exponents
- Parent Graphs
- Parabolas
- Systems of Equations
- Algebra Exam 1
- Algebra Exam 2

Semester Two:

- Inequalities
- Functions (Part 2)
- Fractions and Variables
- Logarithms
- Polynomials
- Complex Numbers
- Conics
- Probability
- Counting Principles
- Unit Circle/Trigonometry
- Algebra Exam 3
- Algebra Exam 4

Text: The text used for the course will be College Preparatory Mathematics 3 – Algebra 2, 2nd edition. Online access will be available to the eBook as well.

Grading Policy: Homework assignments will be given every class period with **few** exceptions. In order to receive a passing grade, the student must demonstrate mastery of all essential skills and concepts **and** earn at least 70% in the class. Student grades will be determined by the following weighted categories:

- Tests – 45%
- Essential Skills and Concepts - 45%
- Assignments/Quizzes/Problems of the Week - 10%

Letter grades will be earned as follows:

100 - 90%	A
89 - 80%	B
79 - 70%	C
Below 70%	NC

Materials: It is highly recommended that each student have a graphing calculator. The Rocklin High Mathematics Department recommends TI-84. Other necessary materials include: a three ring binder, graph paper, and pencils. Work done in pencil is preferred.

Internet: Daily assignments, test dates, handouts, and grades can be found online through Schoology. Regularly updated grades will be available online at www.edline.net.

Please fill out, sign that you have reviewed the syllabus and return to Mr. Bumgardner next class.

Student Name _____

Period _____

Parent/Guardian Name(s): _____

Parent/Guardian Signature #1 _____ #2 _____

Student Signature: _____