

Algebra II – Building on principles and techniques mastered in Algebra I and Geometry, Algebra II is a further study of algebraic topics including properties of exponents, transformations of functions, systems of linear equations and inequalities, linear programming, an introduction to matrices, analysis of quadratic functions, exponential and logarithmic functions, polynomial functions and methods, rational functions, and an introduction to counting principles and probability theory.

Grading

Final grades will be assigned using the school-wide grading scale found in the student handbook.

In general...

Daily work: 25% Tests and quizzes: 65% Math notebook: 10%
Chapter tests: 50 points each Quizzes: 10-20 points each

There will be a comprehensive final at the end of each semester.

Late Work Policy

Unless otherwise stated, all assignments are expected to be completed by the beginning of class on the due date. Assignments not completed on time will be given half credit. Assignments more than one day late will receive a grade of zero.

Trigonometry and Calculus (Advanced Math) – A review of the necessary elements of Algebra leads into a thorough study of trigonometry from a right triangle as well as the unit circle perspective. Topics include radian and degree measure, trigonometric functions for any angle, transformations of graphs of sine, cosine, tangent and those of their co-functions, inverse trig functions, using and verifying trigonometric identities, solving trigonometric equations, and the Laws of Sines and Cosines. The calculus portion of the course will include a study of limits, differentiation of functions using the limit definition of the derivative as well as more formal methods of differentiation. A discussion of the calculus of trigonometric functions will build upon earlier ideas. A study of integral calculus and its applications will complete the course.

Grading

Final grades will be assigned using the school-wide grading scale found in the student handbook.

In general...

Daily work: 25% Tests and quizzes: 65% Math notebook: 10%
 Tests / Quizzes: 15-25 points each

There will be a comprehensive final at the end of each semester.

Late Work Policy

Unless otherwise stated, all assignments are expected to be completed by the beginning of class on the due date. Assignments not completed on time will be given half credit. Assignments more than one day late will receive a grade of zero.

Advanced Algebra and Statistics (Finite Math) – A study of selected topics from Algebra including systems of equations and matrices, sequences and series, mathematical induction, the binomial theorem, counting principles, and a thorough examination of the conic sections. The statistics portion of the course includes: an introduction to statistics, descriptive statistics including measures of center, variance and rank, probability theory, the binomial and Poisson probability distributions, and an extensive study of the standard normal probability distribution and its applications, and an introduction to hypothesis testing.

Grading

Final grades will be assigned using the school-wide grading scale found in the student handbook. All daily assignments have a maximum possible score of five points, based on five randomly-chosen problems.

In general...

Daily work: 25% Tests and quizzes: 65% Math notebook: 10%
Chapter tests (Statistics): 50 points each Quizzes: 15-25 points each

There will be a comprehensive final at the end of each semester.

Late Work Policy

Unless otherwise stated, all assignments are expected to be completed by the beginning of class on the due date. Assignments not completed on time will be given half credit. Assignments more than one day late will receive a grade of zero.

Advanced Biology – A teacher-facilitated exploration of the world of Zoology. Topics of study include theories of change and emergence of new species, the taxonomy of animal species, and the morphology and physiology of all of the major animal phyla (as well as the animal-like protists). Interdependence of species and common themes of design are highlighted. Students co-produce multi-media presentations covering assigned sections of the text. The integration of credible on-line sources within their presentations links the text to the latest discoveries from the real world. The lab component includes guided dissections of one or more representative species from each phylum.

Grading

Final grades will be assigned using the school-wide grading scale found in the student handbook. All daily assignments have a maximum possible score of five points, based on five randomly-chosen problems.

In general...

Daily work (includes written work, presentations and lab): 50%

Tests: 50%

Chapter tests: 35-50 points each

There will be a comprehensive final at the end of each semester.

Late Work Policy

Unless otherwise stated, all assignments are expected to be completed by the beginning of class on the due date. Assignments not completed on time will be given half credit. Assignments more than one day late will receive a grade of zero.
