

Advanced Topics in Math

| Main Topics (What main ideas/concepts will be covered?): <p>Polynomials & Rational Expressions Complex Numbers Relations & Functions Exponential & Logarithmic Functions Circles Right Triangle Trigonometry Probability & Statistics Sequences & Series Matrices</p> | Rationale (Why should a student take this course?) <p>A student should take this course to strengthen and deepen skills covered in previous math courses. Students will also be introduced to new topics that will help to make them stronger and more well rounded math students. This course should help the student to be more successful in future college level math courses whether taken in high school or college. It is also good for SAT/ACT math preparation.</p> | Outside Requirements (What are students expected to do outside of class?) <p>Homework is given most nights. Most assignments can be completed in 30 – 45 minutes. Often students will have time in class to start work on these assignments.</p> <p>A formal assessment of a quiz or test is approximately once per week. Students will need to spend time studying to prepare for these assessments.</p> | Grade Composition (How are grades determined?): <p>Homework</p> <p>Class work</p> <p>Quizzes</p> <p>Tests</p> |
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| Prerequisite Courses (What courses should be taken prior to taking this course?) <p>Algebra 1 Geometry Algebra 2</p> | Materials (What materials will students need to bring to class?) <p>Notebook</p> <p>Graph Paper</p> <p>Scientific Calculator</p> <p>Paper and Pencil</p> | Required Skills (What skills are necessary to be successful in this course?) <p>Reading/Comprehension</p> <p>Analytical thinking</p> <p>Basic Algebra and Geometry skills</p> | |