



Advanced Math 2 – Fall Semester 2018

Course Syllabus for Mrs. Bechtold

I. Course Description

Math II is the second course of an integrated math courses that incorporate the new state standards and practice standards in Mathematics. The purpose of Advanced Math II is to develop students' ability to think mathematically and develop their conceptual understanding of mathematics and procedural fluency in mathematics. Advanced Math II will extend the mathematics students learned in earlier grades and begin the development of concepts in Number and Quantity, Algebra, Functions, Modeling, Geometry and Probability-Statistics, as well as Complex Numbers, Conics & Matrices (Pre-Calculus Standards). The critical topics of this course are:

- Quadratic Functions
- Trigonometric Functions
- Similarity Right Triangles & Trigonometry
- Conics
- Circles & Volume
- Geometric Properties and Congruence
- Probability
- Modeling Data

Extensive use of models (or real-world situations), manipulatives, graphs and diagrams will help students view how mathematics is a set of related topics as opposed to a set of discrete topics. In addition, students will solve problems graphically, numerically, algebraically, and to make verbal connections between these representations. Students routinely use the standards for mathematical practice to make sense of problems, justify solutions and conclusions, model with mathematics, and strategically use technology to analyze and solve real-world problems.

II. Behavioral Expectations

- Bring materials to class everyday (pencil, graph and lined paper, module from text, and calculator).
- Be in class ready to work at the sound of the tardy bell.
- Be willing to participate.
- Be respectful, attentive, and considerate. Rudeness and/or vulgar language will not be tolerated.
- Follow all school and district rules as stated in the student handbook.

III. Grades

- Tests / Quizzes / Assessments 80%
Homework / Other Assignments 15%
Imagine Math (Formerly called Think Through Math) 5%
- All grades will be determined by the following grading scale:

A)	90% - 100%	B)	80% - 89%	C)	70% - 79%
D)	60% - 69%	F)	59% and below		

IV. Textbook and Recommended Supplies

- A. Textbook: Students are issued a Geometry and MVP mathematics book. Please bring the current module section with you to class from the MVP binder.
- B. Graph and lined paper is recommended for class notes.
- C. Each student is responsible to have his/her supplies in class everyday! This includes:
 - 1. Pencils and/or Pens
 - 2. Scientific Calculator
 - 3. Graph Paper & Lined Paper

V. Assignments and Activities

- A. Classwork: Students will work independently, in pairs, and in groups at various times during class. Each student must keep a neat accurate record of all the work done in class.
- B. Homework: Students can expect homework every day (including weekends). Homework is due at the beginning of the period the following day of class. Late homework is accepted for a maximum of 50% of the grade through the end of the grading period (triad). I like all work to be done in pencil and all **work must be shown** or else the student will get no credit.
- C. Quizzes / Tests: Students can expect to take a quiz and test every unit. Tests will assess students' understanding of the material covered in class. Students may be offered the opportunity to retake quizzes for an average of their old and new scores but no retakes are offered for tests.

VI. Absences and Make-Up Work

- A. Work: Only students with excused absences may make up missed work. Make up work will not be assigned until the absence is cleared through the attendance office. All work must be made up in a timely manner – one week from the day of absence. Truant / suspended students do not have the right to make up work.
- B. Tests / Quizzes: All tests and quizzes must be made up at lunch or before school with prior arrangements made with the teacher.

VII. Tutoring

Extra help is available when you need it. I am available for tutoring before school at 7:00 - 7:25. In addition, the National Honor Society on campus offers free tutoring in various subjects after school Monday - Thursday in room EE15. If that doesn't work for you, let me know and we can work together to get you the help you need. Please do not wait until the end of the unit to get help. If you struggle with a homework assignment, please come and see me the following day.

I look forward to a great year with you. Remember, good attendance is vital. Successful students come to class everyday with their materials and ready to learn. Please, let me know if there is any additional information that you would like me to know.

Sincerely,

Mrs. Melissa Bechtold

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