

Precalculus Syllabus

(honors level, weighted course)

Mrs. Stallings, Room 1720

Textbook: Advanced Mathematical Concepts – Glencoe

Course Website: <http://www.glencoe.com/sec/math/prec calculus>

Recommended Calculator: TI-83, TI-83 plus, TI-84, or TI-84 plus (Calculator contracts available if you need to sign out a graphing calculator.)

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Course Description: This course is a rigorous study of advanced algebraic techniques with an emphasis on trigonometry. This course will include vectors, polynomial functions and trigonometric properties, complex numbers, parametric equations, conics, sequences, series, matrices, exponential and logarithmic functions and analytic geometry.

Course Outline: We will be spending 1 – 2 weeks on each of the units listed below.

- Manipulation of equations and functions
- Polynomial equations & rational functions
- Zeroes of a function
- Circular functions and their applications
- Graphs of trigonometric functions and principal values
- Trigonometric identities and equations
- Vectors and parametric equations
- Conics
- Exponential and logarithmic functions
- Sequences
- Polar coordinates and equations

Assignments: Doing classwork and homework is essential to be successful in this course.

- Opportunities will be given for you to work in small groups on some assignments. Small groups provide time for you to share ideas and work together to solve problems.
- You will be expected to complete all homework which will be assigned 3 – 5 times per week.
- Always show work to back up your solutions in all assignments unless instructed otherwise.
- Each student will also be responsible to write a class log summary at least 2 times per marking period. Class logs are intended to highlight the day's activities for absent students and help the class to get focused on the material we covered in the previous lesson.

Grading Policy: Your grade will be calculated using a point system that automatically weighs the value of each assignment/assessment. Homework will be 10% of your total grade, as stated in the homework policy. In addition to the assignments described above, you will be given checkpoint quizzes and unit tests. Missed assignments due to absences will be worth full credit when turned in within the same number of days as the absence. For example, if you miss 2 days of school, you will have 2 days to turn in your work for full credit. Any work turned in late, whether it is due to an absence or not, will be worth partial credit.

Teacher/Student Expectations:

RESPECT is contagious – if you give it, you’ll get it! I promise to work with you and guide you through this course. I will respect each of you as individuals and do my best to help you reach your greatest potential in math. I ask that you show me the same respect and that you respect your fellow classmates. My classroom is a place where every voice has a right to be heard – one at a time.

Basic classroom rules:

- Be prepared for class (book, calculator, pencil, notes...)
- Participate and cooperate (Oxford definition of cooperate: “work or act together, assist, collaborate, work together, join, unite, interact, team up, contribute, lend a hand, help”)
- Do not talk out of turn
- Follow all school rules.
- Due to potential allergies, food will not be permitted in the classroom unless permission is granted in advance. All drinks should have a spill-proof lid.
- Cell phones should be off and out of sight at all times unless otherwise directed.

- Classroom Procedures:**
- Be on time to class and in your seat before the bell rings.
 - When the bell rings, be ready to listen to the instructions for the day’s activity and complete the “Do Now” written on the board.
 - Keep your notebooks/folders organized. You may need to find a previous day’s work in order to complete a new task.
 - If you need to sharpen your pencil or get a tissue, you do not need to ask permission. Please get up quietly and get what you need.
 - If you need to leave the room for any reason (bathroom, locker, nurse, etc.), please ask permission. You will need to sign out on my sign-out sheet, and get a signed pass (either your agenda or a yellow pass.) Unless it is an emergency, try to avoid interrupting whole-class discussions or times when I am giving directions for an activity. Also keep in mind that there may be times when I do not allow you to leave.
 - If you want your voice to be heard, raise your hand and wait patiently for your turn. Please do not speak out while others are speaking.