

Course Syllabus: Pre-Calculus: 2017-2018

Contact Information: Mr. Mark West

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Office Hours: Monday through Thursday from 7:00 – 7:30 a.m. and after school by appointment or 5th hour Study (A or D).

Course Description: Welcome to Pre-Calculus! Pre-Calculus with Trigonometry is an honors-level course for students taking AP Calculus in high school or Calculus as college freshman. Because it is an honors level course students must have a very strong background in algebra and geometry. Topics include: functions, analytic geometry, trigonometry, parametric and polar coordinates, and the introduction to Calculus. Real world problem situations are used. **A graphing calculator is necessary.**

Alignment to the Iowa Core Curriculum: Understand and applies concepts of algebra, coordinates, transformations and trigonometric relationships.

Standards: Relationships between quantities and reasoning with equations, Expressions and equations, Linear and exponential relationships, Quadratic functions and modeling, Relationships of polynomial, rational and radical functions, Trig functions and modeling with functions.

Assessments: Students will complete both formative and summative assessments throughout the year. These may include quizzes, tests, projects, collaborative work, labs, homework assignments, writing reflections, or any other means of measuring progress.

Content: We will be covering the following units to deepen your understanding of the following: Polynomial & Rational Functions ♦ Exponential and Logarithmic Functions ♦ Trigonometric Functions ♦ Analytic Trigonometry & Geometry ♦ Application of Trigonometric Functions ♦ Systems of Equations & Inequalities ♦ Sequences and the Binomial Theorem ♦ Intro to Calculus.

Instructional Strategies: A variety of strategies will be used, including (but not limited to) pretests, group work, individual work, teacher-led activities, collaborative discussion, and problem-based activities.

Resources:

Text: *PreCalculus: Graphical, Numerical, Algebraic Ninth Edition* : Demana

Online Book: mymathlabforschools.com; Khan Academy Online Videos Online

Canvas (dubuque.instructure.com)

If you start to fall behind in class, the best thing to do is get help IMMEDIATELY. The longer you wait, the more you fall behind and the worse it gets. You can get help from me before school, after school, or during 5th hour A or D study time. You can also find a math teacher in C223 during A and D study time.

Academic/Behavior Expectations:

- This is a high school course and I expect you to behave as the responsible students that you are and show your Hempstead PRIDE!
- You are expected to arrive promptly, be prepared for class, and be in your seat when the bell rings.
- Follow the golden rule: Treat people how you like to be treated. Disrespect or harassment of any kind will not be tolerated in this classroom.
- Active discussion is encouraged, but needs to be respectful: raise your hand and respect others' ideas. In order to be successful, you will need to participate in class discussions and small groups and contribute to the discussion.
- You will not need your laptop out at all times in class. Follow all directions about electronics use in class. No cell phones are allowed in class, so your phone should be off/silenced and in a backpack/purse. Cell phones are **NOT** acceptable calculators.

- Your ID needs to be worn at ALL times and be visible to staff.
- Only water will be allowed in the classroom, no other food or drink.
- Your success in math requires you to be in class every day and an active participant. I will follow the Hempstead policy regarding tardies and absences.
 - If you miss class for any reason, **you** will be expected to get the notes and the assignment for that day.
 - If you miss the review day of the test, you will still take the test with the rest of the class.
 - If you miss a test or quiz, you will make it up the next day during the class period. If you are gone for multiple days, see me to schedule a make-up time.
- Plagiarism and cheating will not be tolerated. Cell phones visible during a test will be considered cheating and you will receive an automatic zero, and it is possible to be dropped from the class with an F. See pp. 32-33 in your planner for further details.
- If at any point there is a concern with your academic progress, classroom conduct, or attendance, there will be consequences for your actions. The consequences may include, but are not limited to, the following:
 - ◆ Phone call or email to parents/guardians
 - ◆ Conference with parents/guardians, assistant principal and/or counselor.
 - ◆ AP referral
 - ◆ Individual Behavioral Plan
 - ◆ Dropped from class with an F
 - ◆ Lunch or After School Detention

Materials: These materials are needed for **every** class.

- Your Textbook
- A notebook for classroom notes
- A 3-ring binder/Folder
- Pencil and Eraser (all work needs to be done in pencil)
- A Graphing Calculator (I recommend a TI-83 or TI-84) – can be rented from school
- Your Planner

Grading Plan: Your grade will be based on the following categories. Extra credit will **not** be given.

- **Tests: 60%** Tests are always announced ahead of time. Retakes are available on tests, because we really want you to learn the material! You may retake parts of a test, or the entire exam for a chance to earn back full points. You will be given further review work and a time limit to complete the retake.
- **Quizzes: 20%** Quizzes may be announced or unannounced.
- **Semester Final: 10%**
- **Homework: 5%** Homework may be collected or checked during class. Late homework must be turned in before the chapter test is given.
- **Classwork and other projects: 5%**

Grading Scale

| | | | |
|----|--------|----|--------|
| A | 93-100 | C | 73-76 |
| A- | 90-92 | C- | 70-72 |
| B+ | 87-89 | D+ | 67-69 |
| B | 83-86 | D | 63 -66 |
| B- | 80-82 | D- | 60-62 |
| C+ | 77-79 | F | 0-59 |

Grades are updated frequently, so keep an eye on it online. If you are struggling, please come in for help and make sure to utilize the resources available to you! Let's have fun and learn some math!

-- Mr. West

This Sheet to be turned in - signed and dated

Name: _____ Period: _____

Technology

Does the student have: Circle your answer.

| | | |
|--|-----|----|
| Access to home computer (tablets available for checkout) | yes | no |
| Internet available at home | yes | no |
| Office365 (available through school for download) | yes | no |
| Printer | yes | no |
| Graphing Calculator (year check out available) | yes | no |

Contact Information

To maintain better communication, please provide e-mail addresses and/or phone numbers where you would like to receive information. Please PRINT CLEARLY.

Parents/Guardians e-mail address & phone number #1

Signatures – To be signed by both Parent/Guardian and Student

I have read and understand the Algebra 1 syllabus, and understand the expectations and requirements of the course.

STUDENT SIGNATURE

DATE

PARENT/GUARDIAN SIGNATURE

DATE

*** If there are any concerns or conditions that you would like me to be aware of, write them on the back of this paper. I will be the only one to see these.