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| ***Course Description:*** | | Pre-AP PreCalculus is a college preparatory course for highly motivated students who have successfully completed Algebra I, Geometry and Algebra II. A variety of topics are reviewed and expanded upon, including trigonometry, complex numbers, functions, graphing, and logarithms. Many topics are combined to explore new areas such as polar coordinates, polar graphs, conic sections, vectors, matrices and polynomial theory. Graphing is studied in depth to determine properties of functions. Many other areas are covered to give the college bound student a basis for Calculus. |  |
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| ***Course Objectives:*** | | The primary objective of PreCalculus is for students to gain a theoretical and operational understanding of PreCalculus topics listed in the 18-week plan. Upon completion of this course a student should be able to:  \*Demonstrate a theoretical, operational, and graphic understanding of functions including polynomial, rational, exponential, logarithmic, and trigonometric.  \*Represent equations and systems of equations graphically, and to integrate the algebraic and graphic interpretation of these concepts.  \*Advance readily to higher level math classes - Calculus  \*Apply PreCalculus skills to formulate and solve REAL WORLD applications. |  |
| ***Classroom Expectations:*** | | You are expected to conduct yourself in a respectful and productive manner. In addition to all the rules and expectations listed in the student handbook, I expect you to have a positive attitude, treat others with respect, practice self-discipline, and demonstrate responsibility. If these conditions are not met, you can expect one-on-one meetings with me, parent/instructor conferencing, and administrative action, if necessary.  **Concerning the use of cell phones and other electronic devices:**  Devices should be on silent and kept in your purse, backpack, or pocket during class unless otherwise instructed. You may not place it on your desk. Parents, guardians, and other family members should call the front office in case of emergency.  If you violate this rule, you can expect the following consequences:   * *First offense* – The phone or device will be placed in a phone chart at the front of the room. You may pick it up at the end of class. * *Second offense* – The phone or device will again be placed in a phone chart at the front of the room until the end of class and a parent/guardian will be notified. * *Third offense* – This is defiance and I will notify an administrator. |  |
| ***Grading Policy:*** | | Major assessments will count 70 percent of your grade. Homework and classwork will account for 30 percent of your grade. Grades will be updated weekly in PowerSchools. Each grading period will consist of nine weeks. |  |
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| ***Make-up Work Policy:*** | | * MMake-up tests will **only** be given to a student who has an **excused absence**. **The student must make arrangements with the teacher to take a make-up test.** **Tests may be taken before school.**  A student only has two chances to make up a test.   Homework/Classwork: Students who are absent for **excused reasons** will be permitted to make up missed work. **It is the student’s responsibility to get their work assignments the day upon return to school and complete the assignments according to a time frame determined by the teacher within two weeks of the date of the last absence**. Grades of zero will be assigned for assignments missed because of unexcused absences. |  |
| ***Text and Other***  ***Required Reading:*** | | PreCalculus – Enhanced with Graphing Utilities: Sullivan and Sullivan |  |
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| ***Materials and***  ***Supplies Needed:***  ***Laptops***  ***Accommodations*** | | Textbook, Pencil, Paper, Graph Paper, Ruler, Scientific Calculator, Ruler, Compass, Colored Pencils  Concerning laptop utilization: 1.Student laptops should not be hard-wired to the network or have print capabilities. 2. Use of discs, flash drives, jump drives, or other USB devices will not be allowed on Madison City computers. 3. Neither the teacher, nor the school is responsible for broken, stolen, or lost laptops. 4. Laptops and other electronic devices will be used at the individual discretion of the teacher.  Requests for accommodations for this course or any school event are welcomed from students and parents. |  |
| **Example: 18 – WEEK PLAN\*** | | | |
| **Weeks 1-3** | **Chapter 1,2,3 – Graphs, Lines, Symmetry, Circles, Functions, Transformations, and Quadratics** | | |
| **Weeks 4-6** | **Chapter 4,5,6 – Polynomials, Rational Functions, Exponential Functions, Logarithmic Functions** | | |
| **Weeks 7-10** | **Chapter 7,8,9 – Trigonometric Angles, Graphs, Functions, Identities, Inverses, and Equations** | | |
| **Weeks 11-15** | **Chapter 10,11,12,13 – Polar Coordinates and Graphs, Vectors, Conics, Matrices, Sequences, Series, Probability** | | |
| **Weeks 16-18** | **Chapter 14 – Introduction To Calculus** | | |
| **Week 19** | **Review for Final Exam** | | |

**\*This is a tentative plan and may change at the discretion of the teacher.**

**Please sign below to acknowledge that you have received, read, and understood the syllabus.**

**Student name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Parent/guardian name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/guardian signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Parent/guardian, please provide two ways for me to contact you (email address, phone numbers):**

Parent/guardian Email:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian Phone number:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_