 **Pre-Calculus**

*Course Syllabus 2020-2021*

*Mrs. Triplett, Instructor*

*Room Number: 303*

*School Phone: 706-772-8140*

*2nd Period Planning*

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*Join Remind:* [*www.remind.com*](http://www.remind.com) *Class Code: @g7hh2f*

*Join Khan Academy:* [*www.khanacademy.com*](http://www.khanacademy.com) *Class Code: 2T885EF6*

**Course Description**

**Pre-Calculus** focuses on standards to prepare students for a more intense study of mathematics. The critical areas organized in eight units delve deeper into content from previous courses. The study of circles and parabolas is extended to include other conics such as ellipses and hyperbolas. Trigonometric functions are introduced and developed to include inverses, general triangles and identities. Matrices provide an organizational structure in which to represent and solve complex problems. Students expand the concepts of complex numbers and the coordinate plane to represent and operate upon vectors. Probability rounds out the course using counting methods, including their use in making and evaluating decisions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**Course Outline:** The Pre-Calculus curriculum is composed of 10 units.

|  |  |
| --- | --- |
| Units of Study | Time Length |
| Unit 0: Think Like a Mathematician | 4 days |
| Unit 1: Introduction to Trigonometric Functions | 15 days |
| Unit 2: Trigonometric Functions | 14 days |
| Unit 3: Trigonometry of General Triangles | 14 days |
| Unit 4: Trigonometric Identities | 15 days |
| Unit 5: Matrices | 15 days |
| Unit 6: Conics | 15 days |
| Unit 7: Vectors | 20 days |
| Unit 8: Probability | 15 days |
| Unit 9: Pre-Calculus Review | 11 days |

**Attendance and Late assignments for class days that are live.**

Students will receive a variety of assignments designed to enhance their learning. If a student is absent for a live lesson, the student is responsible for the missed assignment. Students who have an excused absence will be allowed five days to turn in the missed assignment. Each day after the due date, an assignment will be automatically be reduced by 2% of the overall grade by the number of days it is late. For example, if an assignment is turned in three days after a due date you will lose 6% (2% x 3 days late), meaning you could only get a 94% on the assignment. This is an online environment and students can log in when they want on their own time except for their designated day of the week for their designated class period. See the chart below to determine which day is live for your given class period and time for live lessons.

|  |  |  |  |
| --- | --- | --- | --- |
| Class | Live Day | Time | Tutoring |
| Period 1 | Monday | 7:30-8:25 | Tu, W, Th, F |
| Period 2 | Monday | 8:30-9:20 | Tu, W, Th, F |
| Period 3 | Tuesday | 9:25-10:15 | M, W, Th, F |
| Period 4 | Tuesday | 10:20-11:10 | M, W, Th, F |
| Period 5 | Wednesday | 11:15-12:05 | M, Tu, Th, F |
| Period 6 | Wednesday | 12:45-1:35 | M, Tu, Th, F |
| Period 7 | Thursday | 1:40-2:30 | M, Tu, W, F |

**Evaluation**

|  |  |  |
| --- | --- | --- |
| **Summative Assessments**  **(Tests) 40%** | Unit Tests  Chapter Tests | 20%  20% |
| **Formative Assessments**  **(Primary classwork) 60%** | Quizzes  Homework  Mastery Work (Group Work)  Classwork  Online Discussion | 15%  10%  10%  15%  10% |
| **Final Exam**  **20% of the student’s math average.** | Semester 1 and Semester 2 | 20% of the student’s math average for the semester grade. |

**Grading Scale: A= 100-90, B=89-80, C=79-75, D=74-70, F=69-0**

The primary goal is to meet the developmental needs of each student; therefore, student progress should be monitored using Infinite Campus. This tool is available for parents and students to quickly access student’s grades and attendance (see the Registrar, Mrs. Jenkins for details).

NOTE: If you know that your child struggles in Mathematics, please arrange to ensure that your child receives additional assistance. DO not wait too late to attend to your child’s needs! If you have any questions at any time, please feel free to contact your child’s math teacher via Remind or email.

**Course Assessment:**

**Tests are at the end of each chapter and unit.**

**Quizzes are at the end of each big idea.**

**Homework is due by 11:29pm on the Sunday of the week it was assigned. For example, Homework assigned in week one will be due by September 13, 2020 by 11:29pm.**

**Classwork is due preferably on the day it is assigned for but no later than Sunday of the week it was assigned by 11:29pm.**

**Daily Discussions are due daily!!! They are the only assignments that must be completed daily.**

**If you do the assignments in the bite size increments, I have broken down you will have manageable daily work versus trying to do all the work at once. However, the assignments are available by unit and can be completed ahead of time but must be completed in the order they appear. Late work will be graded as listed above under absences. Pre-Calculus is a subject that requires a lot of calculations that are time consuming. I am not trying to waste your time but am looking to help you understand where the math can be important in life.**

**Five Attributes to Success in my Classroom**

* **Determination**
* **Respect**
* **Integrity**
* **Personal Courage**
* **Honor**

**Online Classroom Procedures & Expectations**

1. Log into Canvas and complete your daily discussion every day at the designated class time.
2. Once you have completed your response to the daily discussion question join me in the Microsoft team meeting for the class lesson, help, questions, or any other assistance I may be to you. The Microsoft Team Meeting platform is available daily but is only required on your required one day a week. The other days I will be available live on Microsoft Team Meetings for your class time to assist you with anything you may need help on.
3. There is no disrespecting classmates or teachers.
4. There is no “I can’t not do this” attitudes allowed.
5. During assessments you are to not to leave the testing window and have integrity.
6. During class work, raise your hand (there is a button in the Microsoft platform), and I will acknowledge you to allow you to turn on your microphone to speak. Please be patient and I will get to your question.
7. If you are absent, it is your responsibility to check canvas to see which assignments you missed. It is your responsibility to complete the assignments within five days before losing points.
8. Do not log out or leave the Microsoft teams meeting until instructed.
9. Classwork and homework are to be submitted by the end of each week by 11:29pm on Sunday.

**Course Materials**

No. 2 pencils

Loose Leaf Paper

Graphing Paper

Markers (8 colors)

Colored Pencils

Highlighters

Pre-Calculus online textbook