

# PRE-CALCULUS SYLLABUS

## 2021-2022

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Room 2212  
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Welcome to Pre-Calculus! This course will build upon your previous mathematical understanding in order to prepare you for AP Calculus. You will be encouraged to grow as a learner as well as a student of virtuous character, exemplifying such attributes as curiosity, courage, respect, and resilience. Together, we will explore and discover the truth, beauty, and goodness of mathematics.

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### Class expectations:

- Arrive on time, in dress code, and with a positive attitude.
- Come prepared with all supplies.
- Follow the guiding principles of a mathematician.

**Course outline:** *Pre-Calculus: Graphical, Numerical, Algebraic 10th ed.*, Pearson 2019

In this course, we will learn the basics of Pre-Calculus:

- Functions and Graphs
- Polynomial, Power, and Rational Functions
- Exponential and Logarithmic Functions
- Matrices
- Trigonometric Functions
- Analytical Trigonometry
- Applications of Trigonometry

### Supplies:

- 1 4-pack of dry erase markers (for your personal use)
- 1 box of tissues OR Clorox wipes
- Note-taking method (notebook, paper, etc.) as well as a way to organize papers such as assessments and handouts (binder with tabs, folder, etc.)
- Graphing calculator: TI-83 or TI-84 or another graphing calculator if you know how to use it
  - Smartphones, tablets, etc. will NOT be permitted as a calculator for this course

### Course Website:

Key resources and assignments will be posted on Schoology (asd20.schoology.com).

### Academic Integrity:

Students are expected to do their own work. It is considered cheating to copy someone else's work. Academic dishonesty will not be tolerated.

## Grading:

- 30% Homework
- 70% Assessments
- The TCA secondary universal grading scale will be used.

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

## Homework:

- Expect online homework (MathXL) to be assigned with each new lesson.
- Online homework will be due by 7:45am. Students will be provided with a minimum of 40 hours after the lesson is taught to submit the online homework.
- Deadlines will be clearly communicated in class and posted on Schoology (for reference only).
- Sometimes written homework will be assigned; in this case, requirements and deadlines will be communicated in class.
- Use of textbook and is **always** permitted for help when completing homework, and is highly recommended.
- It is highly recommended that students work on homework nightly to allow for thorough practice of the concepts prior to an assessment and to assure all questions are addressed.
- Late assignments may be completed until the day of the test for a maximum of 50% credit.

## Assessments

- Periodically, quizzes will be given to assess understanding of multiple days of content.
- At the conclusion of each chapter, there will be a test.
- Missing a review day prior to a test does not excuse from on-time testing.

## Extra Help:

- I am here to help you throughout the learning process! Please take the initiative to ask when you need further explanation.
- I am also available outside of class. Feel free to drop by my room before school (7:15-7:45), during Flex (10:30-10:55), or after school (3:00-3:30). You may also email me to set up an appointment.
- Your notes and textbook are great resources -- use them!
- Notes and resources are also posted to our class Schoology.
- For additional resources at home, explanations of many concepts can be found on Khan Academy ([www.khanacademy.com](http://www.khanacademy.com)) or YouTube ([www.youtube.com](http://www.youtube.com))