

Instructor's Information:

Instructor Name:	Miss Edith Lerma
Office Location:	SHS - 421
Telephone #:	956-580-5300 Ext 1432
Conference:	M-F (11:56-12:26 pm)

Course Information: Course Name: Pr

Pre-Calculus Pre-AP SHS - 421

Course Description:

Room Location:

In Pre-Calculus, students continue to build on the k-8, Algebra I, Algebra II and Geometry foundations as they expand their understanding of mathematics. Students will use functions, as well as, symbolic reasoning to represent and connect ideas in geometry, probability, statistics, trigonometry and calculus to model physical situations. Finally, students will use a variety of representations (concrete, pictorial, numerical, symbolic, graphical, and verbal), tools and technology (including, but not limited to calculators with graphing capabilities, data collection devices and computers) to model functions and equations and solve Real-Life problems.

Course Objective:

Pre-Calculus students will acquire and demonstrate knowledge of concepts, definitions, properties and applications of topics listed below. The main goal of Pre-Calculus is to help students obtain critical thinking and decision making skills that will allow them to connect concepts, develop computational skills and learn strategies needed to solve mathematical problems.

Evaluation

Major Assignments	60%
Minor Assignments	.40%
Major Assignments consist of	Exams, Reports, Research Papers, Projects/Presentations,
	Essays, etc.
Minor Assignments consist of	Daily Classwork/Practices, Homework, Quizzes, Lab Work,
_	Binder/Notebook Checks, etc.
See District Grading Procedures	

- All exams are timed and are in-class closed-book exams!
- Exam results will be given within one week from the exam day.
- Use of cell phones, cell phone calculators, iPod or electronics is not allowed during exam or class time. (BYOD is a privilege, not a right!)

Required Material:

College Ruled Notebook Paper Pencils (Mechanical) – No pen allowed on any assignments! Block Eraser ...any other material needed throughout the year

***homework will be sent home and graphing calculator may be needed

Free TI Graphing Calculator

Androids App: *Wabbitemu*

Apple App: Calculate 84

*These items will be used on a daily basis and are necessary for success in the classroom. The student needs to be responsible for arriving to class prepared to learn and work. Points will be deducted from that day's assignment if student arrives unprepared.

Classroom Rules

- > NO EDIBLES OR DRINK in the classroom
- ➢ BE ON TIME
- > PROFANITY will NOT be TOLERATED
- PARTICIPATION is not an option
- No doing homework for other classes
- RESPECT yourself and others

Tardiness and Attendance

There will be independent, partner and group activities throughout the school year. So, the presence of each student is necessary. Students need to be in class on time, otherwise students will lose out on important information and an education. If absent, the student is responsible for picking up his/her missed assignment(s), attain notes and complete assignment(s).

Cheating or Copying

Cheating will ABSOLUTELY NOT be tolerated. At any time you are caught cheating by ANY TEACHER, an automatic ZERO will be given for that assignment WITHOUT the opportunity to make up the grade. Consider this your WARNING. Cheating will result in a PARENT-TEACHER conference if necessary.

*Please be aware that you will be required to use the internet and other computer software's for some of the class assignments and/or activities. If you don't have computer access at home, feel free to stop by before or after school to the library. (Hours: M-R 7:30am-4:30pm, F 7:30am-4pm).

<u>Tutorial</u>

I will be available as much as possible to help you be successful in this course. This includes before school and after school. I expect to see notes on the topic you need help with before approaching me for assistance. Take advantage of this time. If you do not understand something in class, I am more than happy to try to explain in another way. Please ask before it is too late!

<u>Homework</u>

Homework will be assigned daily. Failure to corporate by turning in an assignment on the due date will result in *a zero*!

Pre-Calculus Enhanced with Graphing Utilities 6th Edition – Sullivan, Michael

Students are asked to come to the board and present problems, discuss different techniques and answer questions from instructor and other students. The term project will address all the Exemplary Education Objective for the math core components.

Pre-Calculus Pre-AP Course Outline

Chapter 6	SECTIONS	
	6.1 Angles and Their Measure	
Trigonometric Functions	6.2 Trigonometric Functions: Unit Circle Approach	
	6.3 Properties of the Trigonometric Functions	
FUNCTIONS	6.4 Graphs of the Sine and Cosine Functions	
	6.5 Graphs of the Tangent, Cotangent, Cosecant and Secant Functions	
Chapter 7	SECTIONS	
	7.1 The Inverse Sine, Cosine, and Tangent Functions	
Analytic	7.3 Trigonometric Equations	
Trigonometry	7.4 Trigonometric Identities	
	7.5 Solving Trigonometric Equations by Sum and Difference Formulas	
Chapter 8	SECTIONS	
Applications of	8.1 Right Triangle Trigonometry; Applications	
Trigonometric	8.2 Law of Sines	
Functions	8.3 Law of Cosines	
Chapter 11	SECTIONS	
Systems of		
Equations and	11.5 Fraction Decomposition	
Inequalities		
Chapter 14	SECTIONS	
A Preview of	14.1 Finding Limits Lleing Tables and Granks	
Calculus: The Limit,	14.1 Finding Limits Using Tables and Graphs	
Derivative, and	14.2 Algebra Techniques for Finding Limits	
Integral of a		
Function	14.4 The Tangent Problem; The Derivative	