

# Greater Miami Adventist Academy

## *Pre-Calculus Syllabus 2017-2018*

### **Course Information:**

Course Title:	Pre-Calculus
Prerequisite:	Algebra II with a grade of B or better
Instructor:	Mrs. Tamarha Lubin
Classroom:	Room 207
E-mail Address:	<a href="mailto:tamarha.lubin@gma.edu">tamarha.lubin@gma.edu</a>
Phone Number:	954-562-5062
E-Book:	<i>Precalculus</i> 2011, Hawkes Publishing Author: Paul Sisson Graphing Calculator is required Bring to class daily

### **Course Description:**

This course complements and expands the mathematical content and concepts of Algebra I, Geometry and Algebra II with the primary purpose of preparing students for calculus. Topics covered include: a comprehensive review of basic, quadratic, polynomial, exponential, logarithmic, and trigonometric functions and their inverses. In addition the topics of analytic trigonometry, vectors, linear systems and matrices, sequences and series, conic sections, parametric equations, polar coordinates and graphs, lines and planes in space, and limits will be addressed.

### **Course Objectives:**

The students will be able to:

- Apply arithmetic, algebraic, geometric, higher order thinking, and statistical methods to modeling and solving real-life situations; [PC.2]
- Represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically; [PC.5]
- Expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments; [PC.3]
- Use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results; [PC.6]
- Interpret mathematical models such as formulas, graphs, tables, and schematics, and draw inferences from them;
- Recognize the limitations of mathematical and statistical models; [PC.7]
- Develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines. [PC.1]

### Course Topics & Schedule

August	<b>Number Systems and Equations of One Variable</b>	January	<b>Trigonometric Functions</b>
September	<b>Equations and Inequalities of Two Variables</b>	February	<b>Trigonometric Identities and Equations</b>
October	<b>Relations, Functions, and Their Graphs</b>	March	<b>Additional Topics in Trigonometry</b>
November	<b>Polynomial Functions</b>	April	<b>Conic Sections</b>
December	<b>Exponential and Logarithmic Functions</b>	May	<b>Systems of Equations and Limits</b>

### Grading Scale per Semester:

	Semester
Tests	60%
Quizzes	20%
Classwork/Homework	20%

Grades will be posted in RebWeb regularly. Parents and students are able to login to RenWeb to view grades and track progress.

### Attendance and Lateness:

All students are expected to attend class in compliance with the GMAA Attendance Policy. (See *Student Handbook*). No assignments will be accepted past the due date. **Tests or Quizzes missed due to unexcused absences will not be accepted.**

### Extra Credit Work:

Complete all assignments and projects, prepare well for the tests and quizzes, follow all the suggestions for success and **no extra credit** will be necessary.

### Classroom Behavior:

Be in your seat with materials out and ready to work before the bell rings. Bring all the required materials to class daily. Follow all directions quickly. Raise your hand and wait to be called upon before speaking. The use of chewing gum is **not** permitted to be consumed in the classroom. Cell phones are not to be used during instructional time unless otherwise instructed. (*See Handbook*)

### Academic Dishonesty:

Cheating includes any and all actions by a student that are intended to gain an unearned academic advantage by fraudulent or deceptive means. Penalties for cheating and plagiarism will be evaluated as F for the assignment.

**Suggestions for Success:**

Pay attention in class, be on time, copy everything from the board, underline your textbook, do not miss class, follow the instructions, study, turn in all assignments on time. Do not be afraid to ask questions, come and see the teacher when necessary, always hand in your very best work.

**Classroom Supplies:**

1. Casio FX-9860GII Graphing Calculator
2. Composition Book (100 sheet)
3. Graph Paper
4. Notebook Paper
5. #2 Pencils
6. Red Pen
7. Ruler

*The teacher reserves the right to make changes to this course outline as deemed necessary.*

\*Please fill out the Acknowledgment of Receipt of Syllabus and return it to Mrs. Lubin. Students will receive a grade for turning in signed forms.