**Stacey Adams**

**sadams@bguilfoyle.org**

**944-4014 ext. 103**

**mrssadams.weebly.com**

**Syllabus for Precalculus**

**Course Overview**

This course is designed for the student who has demonstrated exceptional talent and inquisitiveness for the study of mathematics. Students will be expected to have superior study habits and the ability to learn from a variety of instructional methods. It is expected that students master basic skills readily in order to put emphasis on applications and problem solving. Students will focus on equations and inequalities; graphs and functions; polynomial and rational functions; exponential and logarithmic functions; trigonometric functions and identities; system of equations; and conic sections. This course is offered as dual-enrollment with St. Francis University. More information about the enrollment process will be available at the end of the first marking period.

**Major Course Objectives**

* Students will solve linear, quadratic, absolute value, polynomial and rational equations and inequalities.
* Students will graph linear equations in two variables; will perform basic operations with functions; will evaluate functions.
* Students will determine all real zeros of polynomial functions.
* Students will graph and evaluate logarithmic and exponential functions.
* Students will use the unit circle and special right triangles to evaluate the six trigonometric functions.
* Students will solve trigonometric equations; will verify trigonometric identities.
* Students will solve systems of linear equations.
* Students will graph circles, parabolas, ellipses and hyperbolas.

**Textbook, Instructional Materials, Resources**

Barnett, Raymond A., et al. (2001) Precalculus: Functions and Graphs (5th edition) New York: McGraw-Hill Publishers Companies.

A scientific calculator is required for the course. Graphing calculators are not necessary, but their use is encouraged for those students going on to calculus. The Casio 9850 or any of the TI-80 series may be used.

**Grading**

Grades will be determined as a straightforward percentage of earned points divided by possible points. For each marking period student will earn points through homework and in class assignments, tests, and quizzes. At the end of each marking period, points will be totaled and divided by total possible points to determine the marking period grade. No extra credit will be given. This course has a weighted value of 1.0.

**Technology**

Students will be instructed on proper use of iPads. Notes may be taken on the iPad if the student prefers. There will be assignments posted on eBackpack occasionally and eBackpack will be used on snow days. Parents and students may check PowerSchool for graded assignments and tests. All the rules in the student handbook for use of iPads will be enforced within my classroom.

**Student Expectations**

* **General Expectations**

Be ***On Time!*** Be ready to learn when the bell rings.

Be ***Prepared!*** Bring all required items for class each day.

Be ***Respectful!*** Show respect towards teachers and fellow students.

Be ***Involved!*** Take an active role in your learning.

Abide by all rules set forth and outlined in the student handbook.

* **Preparedness**

Students should be prepared for class each day with: Pencil, fully charged iPad with textbook on it, a scientific calculator(which will be used at the teacher’s discretion), a neat notebook/binder, and handouts given by the teacher, and assigned homework.

* **Homework**

Homework is expected on the assigned due date. Late work **may** be accepted at the discretion of the teacher but will be subject to a penalty.

* **Attendance and Absence** (make up work)

Students are expected to attend class each day. If a student is absent, it is his/her responsibility to speak to the teacher about missed notes and assignments. The students will be given a certain amount of time decided by the teacher to turn in make-up work. This will vary depending on the amount of days absent. Failure to return make-up work when told will result in a zero.

* **Conduct**

Students are expected to follow the classroom rules given by the teacher and also to abide by the rules stated in the student handbook. Please follow the Golden Rule, “do unto others as you would have them do unto you” (Matt. 7:12).

* **Attitude**

Students are expected to have a positive attitude. By doing this, students must tackle the unknown and difficult; be willing to take risk; commit to doing their best; and should see the purpose of the work.

**Acknowledgment:**

Please sign and return this sheet by Friday September 2, 2016. A copy of this syllabus can be found on eBackpack.

I have read and understand the course description and student expectations for Mrs. Adams’ Precalculus class.

Student’s Name: Date:

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Student’s Signature: Date:

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Parent’s Name: Date:

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Parent’s Signature: Date:

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