

# **Pre-Calculus Syllabus**

## **Instructor: Mr. Levy**

### **Course Description:**

Precalculus is an advanced mathematics that builds on the sequential and spiraling approaches to content and skills from Algebra II. Pre-Calculus topics include functions and their graphs, trigonometry (both right triangle and unit circle), polynomial and rational functions, vectors, parametric equations, and matrices. The use of graphing calculators is incorporated throughout the course to prepare students for calculus and other advanced mathematics. A balance of algebraic, graphical, numerical, and verbal methods is used to reinforce comprehension, problem solving and critical thinking skills. The course focuses on the mathematics placement criteria used at local universities and on the mathematics section of the SAT.

### **Grading:**

|                                    |     |
|------------------------------------|-----|
| Quizzes, Tests, and Major Projects | 50% |
| Classwork & Homework               | 50% |

### **Required Materials:**

Students are expected to bring the following to every class, unless instructed otherwise:

- Notebook, with separate sections for: classroom notes, scratchpad, homework, tests
- Laptop
  - All assignments are on [www.pathwaysmoodle.com](http://www.pathwaysmoodle.com)
- Textbook
- Pencil (s)
- Highly recommended: TI-nSpire or TI-84 graphing calculator

### **Classroom Expectations:**

- Students must be in assigned seats and ready to work by the time the bell rings.
- Students bring required books and materials to every class, unless told otherwise by the teacher.
- Students listen and stay seated when someone is speaking.
- Students follow directions the first time they are given.
- Students turn assignments in on time.
- Students treat everyone and their property with respect.
- Students must follow school-wide rules, including dress code, use of agenda book, technology, food, lavatory and cell phone restrictions.

### **Consequences:**

- If a student fails to follow a classroom rule, the student will be given a verbal warning. If a student continues to break a rule, the student will receive an after-school teacher-detention, or be sent to another teacher or administrator's room.