

## PreCalculus/Trigonometry Course Syllabus

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**James Rumsey**  
Technical Institute

### **Course Objective:**

Upon completion of the course, students should be able to:

- Analyze, graph, create and discuss properties of functions.
- Use basic properties of elementary functions and their inverses including linear, quadratic, reciprocal, polynomial, rational, square root, absolute value, exponential, logarithm, sine, cosine and tangent functions and combinations of these functions.
- Construct a formula or equation using the appropriate type of function to fit given data, a graph, or an applied physical situation, especially involving rational functions, linear or exponential growth or decay, periodic behavior, or triangular formulation, analyze the function or solve the equation as appropriate and derive and discuss in writing the desired results.
- Set up linear systems of equations corresponding to basic applied situations; solve linear systems including under-determined systems using elimination, substitution and augmented matrices; report in writing and describe the nature and implications of solutions.
- Identify from equations or graphs lines, circles, ellipses, hyperbolas and parabolas; derive and discuss basic features from equations and graphs, including translation and other transformations; construct equations in standard form to fit graphs or given information.

### **Textbook:**

- Primary: PreCalculus; Glencoe-McGrawHill Education, 2014 Edition
- Supplementary: Mathematics in Action: Algebraic, Graphical, and Trigonometric Problem Solving; The Consortium for Foundation Mathematics; Pearson, 6<sup>th</sup> Edition.

### **Recommended Supplies:**

- #2 Pencils OR Mechanical Pencils with extra lead; erasers
- College Ruled Composition Notebook (dedicated to math notes)
- OR Lined notebook paper and 3-ring 2" binder (to be used for math only)
- Textbook
- Graph paper (You may print FREE graph paper from <http://www.printfreegraphpaper.com>)
- Different colored markers or highlighters. These are used for highlighting and/or showing different math steps to help make your notes more interesting/fun.

**Behavior:**

All students and the teacher are to be treated with mutual respect in order to promote a healthy classroom environment.

- Come to class on time. Tardiness is a disruption and not tolerated.
- No teasing, cussing, or horse play in class.
- Food, drinks, iPods, cell phones, and other electronic devices are not allowed.
- Students must come to class prepared and ready to learn.

**Discipline:**

I believe most students do their best to act appropriately in the classroom. Any behavior problems will be handled as stated in the student handbook handed out at registration.

The following interventions will be taken in the event of discipline problems within the classroom, depending on severity.

1. Verbal Warning
2. Teacher / Student Conference
3. Parents / Guardians Contact
4. Office Referral (after school detention or suspension)

**Grades:**

Students must maintain a cumulative 60 or above in order to pass the course. Here is the breakdown of the grade.

- Exams are 25-50 points each.
- Homework is 5 points per assignment.
- Class Work is 5 to 25 points depending on the activity.
- Projects are 15-50 points.
- Quizzes are 5-10 points each.

**Homework:**

- Must be completed and show all work in order to receive full credit (scale from 0 to 5).

All work must have a proper header. Your name, period, the date, and the FULL assignment (page number and problem numbers) **must** be written on the top of every assignment.

**Late Work:** Will be accepted, with -1 point per day that it is late. After reaching 0 points, it will no longer be accepted.

**Plagiarism / Academic Dishonesty Policy:**

Plagiarism and academic dishonesty are serious offenses. The academic work of a student is expected to be his/her own effort. To represent ideas or interpretations taken from a source without giving credit is a flagrant act. Academic Dishonesty can be defined as:

*Cheating.* Intentionally using or attempting to use unauthorized materials or devices. This includes but is not limited to –

- Using books, notes, calculators, or communication devices during an exam without permission
- Copying from another student's paper
- Falsifying records
- Copying computer files from another student or an instructor
- Obtaining a test or test answers before the scheduled exam without authorization

- Impersonating, including soliciting someone to take an exam or do coursework on your behalf, or sharing your username and password with someone to access your online course sites or student accounts

*Plagiarism.* Presenting the work of another as one's own without acknowledging the source. This includes but is not limited to –

- Submitting another's work, word-for-word, as your own (i.e. failure to include citations and references with your written work)
- Copy-and-pasting from the Internet without giving due credit to the source of information
- Using significant portions of text from a single source without adaptation
- Including inaccurate information about sources or fabricating sources

ANY student caught cheating or plagiarizing will receive a 0% for that assignment. Further disciplinary action will also be taken, as determined by James Rumsey administration.

### **Expectations:**

- Work is completed on time. No folds, wrinkles, doodles, etc ... It should look professional.
- Homework questions are written, diagrams are drawn, and all work is shown.
- Follow all directions. Failure to follow directions will result in loss of credit.
- Take good, clear, usable notes.
- Pay attention! Sit up straight, no slouching, look interested.
- Make every effort to be in class every day.

### **Make-up Work**

As absences occur, either excused or unexcused, it is the responsibility of the student to contact the teacher and make arrangements for make-up work. For an **excused absence**, you get ONE day for each day you are absent to turn in your work. For example, if you are absent on Tuesday you must turn in Monday's homework when you return on Wednesday. If you miss a test you must make it up the first day when you return to school.

If you are turning in an assignment late due to an excused absence, make sure that you write down "ABSENCE" in the front page of your assignment and turn it in the very next day that you are in class. It is YOUR responsibility to turn in your homework after an absence. I will not ask you for your absente work. .... you must remember to turn it in!

**Assignments due but not received the day following an absence will be considered LATE.**

### **Extra Help:**

I am available before and after school, as well as by appointment. Students are encouraged to ask for help anytime they feel they have not mastered the material. While I do not provide extra credit work, students are permitted to retake exams to improve their score.



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I have read the course syllabus for Mr. Gerda's **PreCalculus/Trigonometry** and I understand the requirements and expectations for this course.

**Parent / Guardian Information**

(name -printed): \_\_\_\_\_

(signature): \_\_\_\_\_ Date: \_\_\_\_\_

(contact email): \_\_\_\_\_

(contact phone): \_\_\_\_\_

**Preferred Method of Contact (Circle 1):      Email      Phone**

\_\_\_\_\_

**Student Information**

Class Period: \_\_\_\_\_

(name -printed): \_\_\_\_\_

(signature): \_\_\_\_\_ Date: \_\_\_\_\_

(contact email): \_\_\_\_\_