

Precalculus Syllabus

Mr. Adams

INSTRUCTIONAL GOALS

Precalculus offers a refined understanding of Algebraic, Trigonometric, and advanced function concepts.

Upon successful completion of this course, you will:

- Understand applications of trigonometry
- Know and apply the unit circle
- Know and apply trigonometric identities
- Master function behavior concepts and transformations
- Be able to apply properties of logarithms
- Be prepared to enter a freshman level college mathematics course

NEEDS AND RESOURCES

Required Background

To successfully complete this course, you must have a solid background with tools from high school Algebra 1, Algebra 2 and Geometry including, but not limited to:

- Solving linear and quadratic equations and systems
- Graphing linear and non-linear functions
- Simplifying polynomial expressions
- Understanding basic trigonometric skills

Required Materials

To successfully complete this course, you will need

- Textbook: Precalculus with Limits, Houghton Mifflin
- TI-84 Plus Graphing Calculator (provided for in-class use)
- Paper and pencil
- Folder or binder

Online Resources

- Desmos Online Graphing Calculator (free phone app available)
- Google Classroom
- Links to Lesson resources and assignments may be posted on Google Classroom
- Khan Academy is highly recommended for course review

COURSE SCHEDULE

Course standards are available through <https://www.tn.gov/education/instruction/academic-standards/mathematics-standards.html>

Standard domains covered will include:

1. Number Expressions
2. Sequences and Series
3. Reasoning with Equations and Inequalities
4. Parametric Equations
5. Conic Sections
6. Building Functions
7. Interpreting Functions
8. Trigonometric Functions
9. Graphing Trigonometric Functions
10. Model with Data

POLICIES AND PROCEDURES

General Rules:

Students are expected to come to class daily ready to participate.

Grading Policies:

Student averages will be calculated using the following weights:

Daily Grades (Homework, Classwork, etc.) – 70%

Quizzes/Tests – 30%

Quizzes will be assessed soon after students have received instruction and had multiple assignments on an individual topic. As such, these tend to be the best reflection of their learning and warrant the higher percentage in their average.

CONTACT INFORMATION

- Michael Adams
- Mike.adams@trentonssd.org