Tokyo International Progressive School

Grade 12, Pre-Calculus Course Outline 2025-2026

Steven Kilty, Room 25

DESCRIPTION OF COURSE

This course provides a detailed examination of algebraic and inverse functions, graphs, exponential and logarithmic functions, conic sections, matrices, determinants, complex numbers, and discrete algebra. The course will also involve a thorough discussion of trigonometric concepts and applications.

The textbook for this course is Openstax Pre-Calculus 2e.

STUDENT EXPECTATIONS

Students need to bring **pencils, a ruler, an eraser, a TI-84 plus graphing calculator, and an A4 grid-style notebook** to class.

At the beginning of the school year, you will be issued a textbook. If this textbook is not returned in a usable condition by the required date, your family will be asked to pay for a replacement.

In principle, quizzes will be given at the end of every week. Project due dates will be announced in class.

Any projects that are late will receive a zero in their project mark. The mark will be changed upon submission of the assignment. Students are encouraged to talk to the teacher if they are concerned about the due date of a project.

No food is allowed in the classroom. Students are permitted to bring closed containers of water or unsweetened, non-caffeinated tea to the classroom.

EARNING YOUR GRADE

Your grade will be determined by your work in these categories:

Grade Category	**Percentage of your grade**
Quiz	20%
Daily Work	30%
Project	30%
Test	20%

The grading scale for this course will be:

Letter grade	Mark range
A+	98-100
A	93-97
B+	90-92
B	85-89
C+	82-84
C	77-81
D+	74-76
D	70-73
F	69 or below

IMPORTANT DATES

These dates are for your general planning. The exact date is subject to change, though the teacher will make an effort to announce assessment dates one week prior to the exam.

Assessment	**Date**
Chapters 1 and 2 - Functions and Linear Functions	September 26
Chapter 3 - Polynomial and Rational Functions	October 15
Chapter 4 - Exponential and Logarithmic Functions	November 5
Chapter 5 – Trigonometric Functions	November 21

Chapter 6 – Periodic Functions	December 12
Chapter 7 – Trigonometric Identifities and their Equations	January 23
Chapter 8 – Further Applications of Trigonometry	February 13
Chapter 9 – Systems of Equations and Inequalities	March 13
Chapter 10 – Analytic Geometry	April 10
Chapter 11 – Sequences, Probability, and Counting Theory	May 8
Chapter 12 – Introduction to Calculus	May 29