

Course: Mathematics 11 Pre-Calculus

Course Format: Online

Credits: 4

Description: The goal of this course is to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies that require the study of theoretical Calculus.

Content Learning Standards:

- Number: operations on powers with rational exponents and radicals; real number systems; financial literacy: investments and loans
- Computational Fluency: exponential functions; polynomial factoring of the form: $ax^2 + bx + c$, $a^2x^2 - b^2y^2$; rational expressions and equations; quadratic functions and quadratic equations
- Geometry and Measurement: trigonometry, including non-right triangles in standard position
- Focus on problem solving
- Financial literacy: regardless of the course selections made by students, there is a common experience in Mathematics that includes financial literacy
- First Peoples perspectives are reflected throughout the learning standards

Curricular Competency Development Learning Standards:

- Reasoning and modelling
- Understanding and solving
- Communicating and representing
- Connecting and reflecting

After successful completion of the Mathematics 11 Pre-calculus course students can choose to take Pre-calculus Mathematics 12 to continue to develop the conceptual knowledge and skill set that will be useful for them moving forward to post-secondary programs that require Calculus.

Recommended Prerequisite: Mathematics 10 Foundations & Pre-calculus

Resources: Online course materials are provided. Personal computer and internet connection are required (not supplied by SAIL). Please note: online course platform is not fully compatible with tablets or smartphones.

