

Pre-Calculus 12: Course Outline

Course: PREC11

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Course Length:

10 months

(approx. 120 hours)

Course Layout

PREC12 is organized around these Big Ideas:

- The concept of a limit is foundational to calculus.
- Differential calculus develops the concept of the instantaneous rate of change.
- Integral calculus develops the concept of determining a product involving a continuously changing quantity over an interval.
- Derivatives and integrals are inversely related.

This course is broken down as follows:

Unit	Topic
Preliminary Assignments	Course Outline Course Progress and Timeline
1	Graphing Radical and Rational Functions
2	Polynomials
3	Exponents and Logarithms
4	Circular Functions
5	Trigonometric Equations and Identities
6	Conics
7	Sequences and Series
8	Graphing Radical and Rational Functions
Course Completion	Core Competency Reflection

Assessment

Quizzes and Unit Tests will be marked using a percentage.

Percentage	Proficiency Scale
86%+	Extending
73% - 85%	Proficient
60% - 72%	Developing
50% - 59%	Emerging
<50%	Additional Support Required and Retest

Upon the completion of this course, you will receive a final grade calculated by weight:

Category	Percentage
Learning Guides	5%
Inquiry Projects	20%
Quizzes	10%
Unit Tests – Multiple Choice	15%
Unit Tests – Written Responses	25%
Midterm	10%
Final	15%

Unit Assignments

The Unit 1 assignment must be submitted within **30 days of enrolment** to be activated in this course.

The unit 2-8 assignments will include an **answer key** to help you understand the material and **self-assess your learning**. There are for practice and will not be submitted.

Inquiry Projects

Inquiry projects are designed for you to apply what has been learned to real life. There are two inquiry projects in this course.

Be sure to keep your work neat and organized. Read the rubric carefully. Communicate your ideas as much as you can.

Review Quizzes

Quizzes can be done on your own (not supervised). Use them as practice – ie. give them a try first, then refer to notes if you need a little extra help. Keep track of where you needed help and review before your second try and/or unit exam.

You have two attempts on each quiz. You can view your attempt after it has been graded. Each question has feedback and solutions to help you troubleshoot challenging questions.

Make sure you review your quiz results and let your teacher know if there are issues with your attempt. DO NOT complete a second attempt until you have reviewed the feedback from your initial attempt or have asked your teacher to look at any issues with your initial attempts.

Unit Tests: Exam Supervision

Each unit includes **two tests**:

- One with **multiple-choice questions**
- One with **written-response questions**

You will find a link to submit your written response at the end of each unit. There are a total of **16-unit tests** in the course.

Midterm And Final

Both the **midterm** and **final exams** include **multiple-choice** and **written-response** questions.

You will find an assignment Dropbox in Brightspace to submit your written response for each exam.

- The Midterm Exam covers content from **Units 1–4**.
- The Final Exam covers content from **all 8 Units**.

All exams are "closed book" and require supervision.

Your parent or guardian must:

- Ensure the student has submitted all the assignments for the unit before taking the test.
- supervise your test-taking to ensure no additional notes or resources are used while taking the test.

You will only have one attempt at the unit test.

Course Activity

Students must be working to complete learning engagements on a regular basis. Students who are inactive after two weeks will receive an email to their Brightspace email program providing a warning of inactivity. Students who are inactive after 1 month may be withdrawn from the course. If a student is planning to be inactive due to personal reasons, they need to contact their teacher to inform them of the period of inactivity.

Students should aim to complete a minimum of one unit per month to finish the course within a 10-month period.

To finalize your registration in the course, you need to complete the Learning Guide within 30 days of your registration. You may be removed from the course if this has not been completed in time.

Contacting your Teacher

The best way to communicate with your teacher is through the Brightspace Email program. To access the email program, click on the small envelope at the top right-hand corner of your screen, then click Email. This will direct you to the Brightspace Email program.

Parents and Guardians can email your teacher at Leila.Dianati@burnabyschools.ca

Resources

There are NO textbooks required for this course. You do need a basic scientific calculator. There is a formula sheet in the course overview for use.

Plagiarism

Plagiarism is unacceptable under any circumstance. You are expected to create authentic work which demonstrates your own understanding. If you are caught cheating, plagiarizing, or submitting AI-generated responses within this course, you may be removed from the course.

Keys to Success

1. Actively work through each lesson, trying examples and reflecting on material.
2. Use the Learning Guide as your tool for documenting your understanding. Lay it out neatly and well organized and self-mark before submitting.
3. Make sure you understand any quiz/exam question you get wrong. If you can't figure it out - ASK!
4. Use the message system for regular communication with your instructor.