

New Westminster Online Learning School

Pre-Calculus Math 11:

Course Description

- Students considering taking this course should have, within the past 5 years, achieved at least a C+ in Foundations of Mathematics and Pre-calculus 10 or an equivalent course or by our assessment.
- This course builds on the concepts from Foundations of Mathematics and Pre-calculus 10 in that Functions, Inequalities, Trigonometry, Sequences and Series help us to understand the abstract relationships prevalent in the world around us.

Course Expectation

Students are expected to complete their online course within a 4-5 month period of time. If additional time is needed, contact your course instructor.

Enduring Understanding/Big Ideas_(taken right from bced.gov.bc.ca)

Students will focus on:

- Algebra allows us to generalize relationships through abstract thinking.
- The meanings of, and connections between, operations extend to powers, radicals, and polynomials.
- Quadratic relationships are prevalent in the world around us.
- Trigonometry involves using proportional reasoning to solve indirect measurement problems.

Specific Learning Outcomes

https://curriculum.gov.bc.ca/sites/curriculum.gov.bc.ca/files/curriculum/mathematics/en_mathematics_11_pre-calculus_elab.pdf

Course Content

Unit 1	Financial Literacy
Unit 2	Absolute Value and Radicals
Unit 3	Solving Quadratic Equations
Unit 4	Analyzing Quadratic Equations
Unit 5	Graphing Inequalities and Systems of Equations
Unit 6	Trigonometry
Unit 7	Rational Expressions and Equations
Unit 8	Absolute Value Functions and Reciprocal Functions



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Student Learning Activities and Strategies

- The online lessons use a combination of text, short videos, and animations.
- This course aims to promote the development of mathematical understanding through inquiry and problem solving.

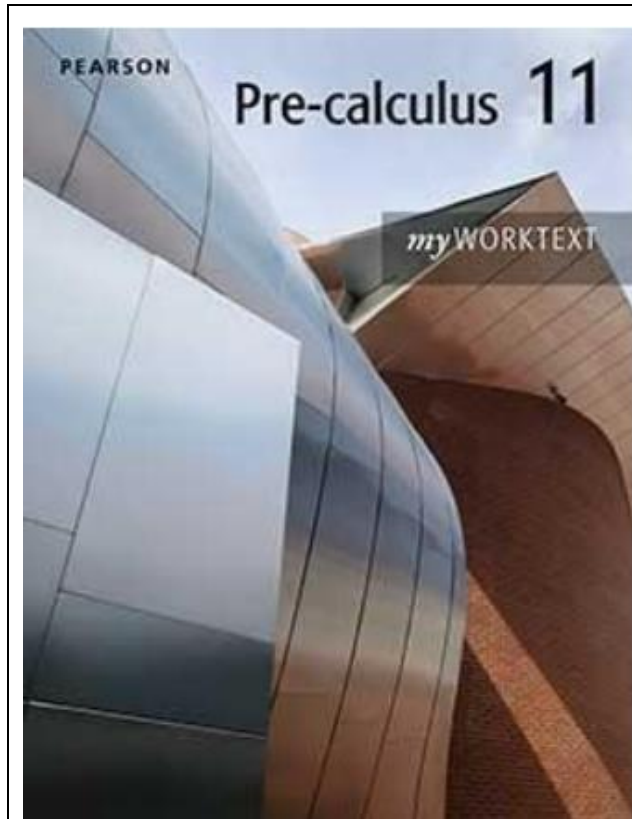
Assessment

- This course has eight units. There is one test per unit. You must complete the tests in order starting with Unit 1.
- The tests are timed, and you will have 50 minutes to complete each of them.
- You are expected to complete one Unit Test every 2-3 weeks.
- The Unit Tests can be done online from any location where a student has the use of reliable technology with a dependable internet connection. Please note though that at any time during this course, students may be required to come on-site to write a test.
- There is no final exam. Students must complete all 8 tests to obtain a course mark.

Evaluation

A student's final mark in this course is based on their eight Unit Tests submissions.

Resources



The Pre-calculus 11 myWORKTEXT is NOT required for Unit 1, but students will definitely need it for Units 2-8.

There are a few ways to do this:

1. If you're an adult or out-of-district student, buy a book for \$30 from Columbia Square Education Centre (#200 – 1065 Columbia St, Phone: 604-517-6191) between the hours of 9:30am-3:30pm on school days. Workbook fees are non-refundable.

or

2. If you currently attend NWSS, borrow a book from Room #3039 on the top floor.