



Foundations Math and Precalculus 10

Course Overview

Foundations Math is designed to prepare students who are bound for university and are taking a program that requires university math or students wanting to keep all the doors open.

There are seven chapters in this course. Below you will find a brief description of each along with a suggested timeline:

1. Exponents: (20 hours)
 - factors of whole numbers
 - perfect squares and perfect cubes
 - exponent rules
 - negative exponents
 - Evaluating negative exponents and quotients
2. Polynomials: (20 hours)
 - defining polynomials
 - area models
 - multiplying polynomials
 - basic factoring
 - factoring trinomials and difference of squares
3. Functions and Relations: (20 hours)
 - coordinate plane and relating data
 - interpreting graphs
 - domain and range
 - functions
 - applications of functions
4. Linear Relations: (20 hours)
 - slope
 - slope intercept form
 - general point form
 - parallel and perpendicular lines
 - arithmetic sequences
 - arithmetic series

5. Linear Systems: (20 hours)
 - solving graphically
 - solve by substitution
 - solve by elimination
 - applications of linear systems
6. Trigonometry: (20 hours)
 - trigonometry review
 - the three ratios
 - steps to finding sides and angles
 - solving triangles
 - applications of solving triangles
7. Financial Literacy: (20 hours)
 - wages
 - salary
 - piecework
 - commission
 - income tax and deductions

Course Content and Suggested Timelines

At any point during the course, you can check your suggested timeline on your EBUS dashboard and can adjust your completion date upon which your timeline is based.

Including cumulative tests, this course has seven modules. To complete the course in a semester, you should be completing a module every 2 weeks. If your plan is to complete the course over an entire school year, then you can allow 4-5 weeks per module.

Course Materials

- A textbook is not required for this course
- Students must have a scientific calculator
- Formula sheets will be provided in the course
- Lesson videos with associated practice questions and worksheets will cover course content

The prescribed learning outcomes for this course are available at:

<https://curriculum.gov.bc.ca/curriculum/mathematics/10/foundations-of-mathematics-and-pre-calculus>

Assessment Information

For every chapter you will complete a minimum of 3 things:

1. Print and fill in a notes package
2. Print and complete a Mastery assignment using the skill learned in this chapter.
3. Complete a parent supervised chapter test.

There are practice questions found below each video. Students are encouraged to completed these, they get progressively harder and they should be able to answer these types of questions for the tests and midterms.

The midterms cover the following chapters:

- Midterm 1=chapters 1 and 2
- Midterm 2=chapters 3, 4 and 5.

<i>Course Notes</i>	5%
<i>Mastery Assignments</i>	25%
<i>Chapter Tests</i>	30%
<i>Project (Unit 5 and 7)</i>	15 %
<i>Midterm 1: Units 1-2</i>	10%
<i>Midterm 2: Units 3-5</i>	15%

Supervised and Invigilated Exams:

There are two midterms that must be invigilated by an EBUS approved supervisor. Please visit this [map](#) to find a location near you. Please allow one week for your test to be scheduled. A parent or guardian may supervise all other tests. ****Due to COVID-19 invigilations will be conducted online.****

Generally, tutors are not allowed to oversee tests and midterms due to conflict of interest. Contact me if you have any questions.

When students are not meeting the learning outcomes/ falling behind

When students fall behind the expected pace or plan, they will be contacted via email or phone and if there is no improvement or response, parents will also be contacted. If deemed necessary, contact with the student's home school may also occur to help determine a solution.

Students are expected to let the course teacher know when they are struggling with course content. In response, the course teacher will provide appropriate help or strategies to support learning. The course teacher will also provide feedback on course work to support learning and help students improve. Parents will be made aware if their child is actively working but struggling to meet the learning outcomes of the course.

Students falling behind in a manner where it does not appear that they will complete the course within a year will be sent reminder emails. Without a response or renewed efforts in the course, the student may be assigned an F or withdrawn. Should they begin actively working in the course, the student may be given an alternate completion date.

Inactivity and Communication

Students are expected to login and submit work in their online courses on a weekly basis. EBUS teachers monitor student participation, work submission and periods of inactivity in their courses. Students who have not accessed their course for a period of **two weeks or longer** will receive an **online gentle reminder email** to inquire about progress and reasons for inactivity; parents will also receive a copy of the email. Students who receive a reminder email must contact their teacher to communicate their intentions for the course and any other information that will help support their learning. If a student has been inactive for a period of eight consecutive weeks or longer, has received three online reminders and has not responded to communications from their online teacher, the student may be withdrawn from the course.

Communication between students and teachers is important. EBUS Academy offers a flexible learning environment and we understand that various circumstances can arise that prevent students from engaging in their courses. When students anticipate being absent from their online course, they should contact their teacher in advance, whenever possible.

Expectations

- Adhere to the EBUS Academic Integrity Policy
- Contact your teacher when help is needed
- Review feedback from assignments and tests, where applicable
- Work to complete the course in a timely manner
- Communicate respectfully
- Review weekly progress reports

Reporting to Parents:

There are 4 term report cards that can be downloaded from the student dashboard. A notice will go out when these report cards are available.

I will send out a weekly or bi-weekly progress report showing the student's progress, on weeks that EBUS is in session.

Contacting Your Teacher:

Teachers are available Monday to Friday during regular school hours. If you are having trouble with any concepts, please contact your teacher right away! Help is available via v-classes. Please contact your teacher via email at tclark@sd91.bc.ca or mknowles@sd91.bc.ca