

# Foundations Math 12 – ONLINE - Course Outline

Read this course outline before starting your course

## Course Overview

Course content is delivered entirely online while assignments are submitted on paper, or by digital delivery through an online “drop-box”. This course consists of 8 units. Each unit consists of a group of lessons. After each unit is a send-in assignment that is submitted for marking and a supervised test that must be written.

## Accessing Your Course

You will be sent an email containing a link giving direct access to your course, along with your logins and passwords. If you have problems logging in, contact the school.

## Course Evaluation

Assignments	30% of final mark
Tests	70% of final mark
Total Mark	100%

## Materials Required for the Course

Graphing Calculator, Grid Paper, Computer with Internet Access, Email Account

### Important \*\* Important \*\* Important

1. Email is one of the best ways to communicate with your teacher. If leaving a message by phone, be sure to leave a clear message with your name and phone number.
2. To book a test call the school and ask for the testing center. Our test supervisor will help you to arrange a time that works for you. If leaving a message on her answering machine, speak clearly and leave your full name and phone number.
3. Tests written prior to assignment submissions are held for marking until the assignments are received.
4. **There are no test rewrites and no assignment resubmissions.** Do not send in blank questions. Seek the help you need before your paper is marked, not after.
5. Self Marking Assignments. Each lesson has self-marking activities with answer keys provided. Checking your work, helps check your understanding as you proceed through the course. Do all practice work before attempting your send in assignments.
6. **Updates, Errors, and Omissions** - Check your teacher's website for any updates, errors, or omissions to your course materials before beginning. If you find a mistake that has not been identified, help others by reporting it to your teacher.

7. **Lost Assignments** - If an assignment is lost in transit, students are required to resubmit the "lost assignments" for marking. It is a good idea to make a copy of your assignment before submitting it.
8. Contact your teacher if you will not be working on your course for a period of time
9. **Course Expiry** - You have 12 months from the start of your course before your course expires without extension.
10. **If you need to complete a percent of this course to attend your school valedictory ceremony, you must have that percent of the course completed and turned in by April 15 at the latest.** Previous experiences have shown that failure to meet this deadline will prevent you from participating in the Valedictory Ceremony.
11. **Academic Probation and Withdrawal** - Students must be actively working on their courses on a regular basis as indicated by submission of assignments, test completion, or communication with their teacher. Lack of regular activity results in a student being placed on Academic Probation. Continued lack of activity then results in withdrawal from the course. Contact you teacher if you need more than three weeks to submit your next assignment or write your next test, or if you are getting behind. It is your responsibility to communicate your circumstances to your teacher

## Foundations Math 12 – Completion Schedule

DE allows students flexibility in school work; sticking to a schedule ensures timely completion to achieve your goals. **Use the following table to complete your course in 19 weeks (1 semester).** You may choose to complete the course faster or slower. You have one year until your course expires.

Week	Activities
Week 1	Unit 1 – Lessons 1, 2
Week 2	Unit 1 – Lessons 3, 4
Week 3	Unit 1 – Lessons 5, Send-In Assignment for Unit 1
Week 4	Unit 2 – Lessons 1, 2
Week 5	Unit 2 – Lessons 3, 4, Send-In Assignment for Unit 2, Review for Module 1 Test
Week 6	Write Module 1 Test, Unit 3 – Lessons 1, 2
Week 7	Unit 3 – Lessons 3, 4, Send-In Assignment for Unit 3
Week 8	Unit 4 – Lessons 1, 2
Week 9	Unit 4 – Lessons 3, 4, Send-In Assignment for Unit 4, Review for Module 2 Test
Week 10	Write Module 2 Test Unit 5 – Lessons 1, 2
Week 11	Unit 5 – Lessons 3, 4, Review for Midway Exam, Write Midway Exam
Week 12	Unit 5 – Lessons 5, Send-In Assignment for Unit 5
Week 13	Unit 6 – Lessons 1, 2
Week 14	Unit 6 – Lesson 3, 4 Send-In Assignment for Unit 6, Review for Module 3 Test
Week 15	Write Module 3 Test, Unit 7 – Lessons 1, 2
Week 16	Unit 7 – Lessons 3, Send-In Assignment for Unit 7
Week 17	Unit 8 – Lessons 1, 2
Week 18	Unit 8 – Lessons 3, 4, Send-In Assignment for Unit 8, Review for Module 4 Test
Week 19	Write Module 4 Test, Review for Final Exam, Write Final Exam

### Unit 1: Finance – Investing Money

Simple Interest: Future Value and Compound Interest; Using Technology for Financial Calculations – Part 1; Using Technology for Financial Calculations – Part 2; Compound Interest with Regular Payments; Send-In Assignment

### Unit 2: Finance – Borrowing Money

Analyzing Loans: Credit Cards and Payday Loans; Investigating Credit Card Repayment Options; Should You Buy, Lease, or Rent; Send-In Assignment

### Unit 3: Set Notation

Set Notation and Different Types of Sets; Intersection and Union of Sets; Application of Set Theory; Conditional, Converse, Inverse and Contrapositive Statements; Send-In Assignment

### Unit 4: Combinatorics

Fundamental Counting Principle: Permutations When Objects Are Not Similar; Permutations When Objects Are Similar; Combinations; Send-In Assignment

### Unit 5: Probability

Probability Terminology and Notation; Mutually Exclusive Events – Events A or B; Conditional Probability – Events A and B; Problems Involving Conditional Probability; Probability Involving Permutations and Combinations; Send-In Assignment

### Unit 6: Polynomial Functions

Graphs of Polynomial Functions; Characteristics of the Equations of Polynomial Functions; Using Technology to Model Data with a Line of Best Fit; Using Technology to Model Data with a Curve of Best Fit; Send-In Assignment

### Unit 7: Exponential and Logarithmic Functions

Characteristics of Graphs of Exponential Functions; Characteristics of Graphs of Logarithmic Functions; Using Technology to Model Data Using Exponential and Logarithmic Functions; Send-In Assignment

### Unit 8: Sinusoidal Functions

Radian Measure and Angles in Standard Position; Characteristic of Periodic Functions; Sinusoidal Functions; Using Technology to Model Data with Sinusoidal Functions; Send-In Assignment

This course is based on the learning outcomes for Foundations Math 12 viewable at:

[http://www.bced.gov.bc.ca/irp/pdfs/mathematics/WNCPmath1012/2008math\\_foundations1112.pdf](http://www.bced.gov.bc.ca/irp/pdfs/mathematics/WNCPmath1012/2008math_foundations1112.pdf)

Full Curriculum:

[http://www.bced.gov.bc.ca/irp/pdfs/mathematics/WNCPmath1012/2008math1012wncp\\_ccf.pdf](http://www.bced.gov.bc.ca/irp/pdfs/mathematics/WNCPmath1012/2008math1012wncp_ccf.pdf)