



# Foundations of Math 12

EBUS Academy

## Course Overview:

This course is often taken as a grade 12 elective and as a pre-requisite for students who want to enroll in a non-science department of post-secondary. This course is divided into seven chapters. The chapters can be done in any order although it is recommended that you complete them in the suggested order. Each topic has video lessons, practice questions, 1 assignment, and a chapter test. Additionally, there is a cumulative final exam.

### About each Chapter (in suggested order):

All EBUS courses are designed to allow students to work on the material with an individualized, flexible timeline and at their own pace. The following timeline is a suggestion only, for students intending to complete the course within one semester or one year. This does not include the final which 1-2 weeks of studying is appropriate.

- **Planning to complete by June**
- **Planning to complete in one semester**

### Finances (4wks or 2wks):

- Simple and Compound Interest
- Credit Cards
- One Assignment
- Test (**supervised**)

### Lease, Rent and Buy (4wks or 2wks):

- Leasing, Buying and Renting
- One Assignment
- Test (**invigilated**)

### Investing (4wks or 2wks):

- Precious Metals
- Business Loans
- Return on Investment
- Investing Strategies
- One Assignment
- Test (**self-supervised**)

### Combinatorics and Permutations (4wks or 2wks):

- Fundamental Counting Principle
- Permutations
- Combinations
- One Assignment
- Test (**self-supervised**)

#### **Logic, Sets and Probability (4wks or 2wks):**

- Probability and Sets
- Conditionality
- One Assignment
- Test (**self-supervised**)

#### **Functions and Relations (4wks or 2wks):**

- Sketching Polynomials
- Finding Zeros
- Exponential Functions
- Growth and Decay
- Logarithmic Functions
- One Assignment
- Test (**self-supervised**)

#### **Graphing Functions (4wks or 2wks):**

- Graphing Exponential, Logarithmic Functions
- Graphing Trigonometric Functions
- One Assignment
- Test (**self-supervised**)

#### **Final Exam (Invigilated)**

- 2 hour time limit
- Composition depends on version
  - Contact your teacher for these details prior to writing

#### **Course Materials:**

There is no textbook issued for this course. Instead, lessons are provided through StudyForge. Access to StudyForge will be granted upon enrolment. The prescribed learning outcomes for this course are available at: [Foundations of Math 12 IRP's](#).

#### **Testing/Assessment information:**

**Tests need to be supervised and/or invigilated.**

Self-Supervision: Timed tests that open automatically once the chapter assignments have been completed.

- If there is a student integrity issue, the instructor may request for all self-supervised tests to be supervised or invigilated.

Supervision: Times tests that need to be written with a supervisor. A supervisor can be a parent of the student.

Invigilation for one chapter test and final exam: Written with an EBUS approved testing centre or individual selected from the invigilation map. An Invigilation form needs to be filled out and submitted in the necessary drop-box for that specific test. All tests are closed book.

## Mark Breakdown:

### Assignments: 20%

For each chapter there is at least one assignment that needs to be completed. These assignments are displayed on the course website and can be accessed directly from there. You may use your notes and other resources to help you with the assignment. When you have completed your assignment, you will need to upload it to be marked. Once the assignments have been marked you can view them in your grade book. **A minimum achievement of 50% must be met on each related assignment in order to have access to that chapter test.** Students will need to re-submit an assignment until this is satisfied. At that point re-submissions will not be accepted.

### Chapter Tests: 50%

There will be a chapter test for each of the Foundations 12 chapters. Please note that all chapter tests are "**closed book**" tests, which means that you are **not permitted** to use any reference materials to help answer the questions. You are permitted to use a calculator if needed and the course formula sheet. Each test consists of multiple choice questions and written questions where you show and submit your work. That way, even if your answer is incorrect, you may still get part marks.

### Final Exam: 30%

There will be a final exam at the end of the Foundations 12 course. Please note that it will be a "**closed book**" test, which means that you are **not permitted** to use the textbook or any other reference materials to help answer the questions. You are permitted to use a calculator if needed. Your final exam must be invigilated and signed by your approved invigilator indicating that you took the test closed book. When you finish the last chapter, submit the invigilator request form indicating which testing facility or individual you have chosen from the invigilation map.

## Grade Progress:

### Progress Reports:

Progress reports will be emailed to the address(es) on file for all students every 2 weeks. You can expect the email to occur on a Thursday or Friday.

Report cards will be available at the end of each of the four terms. These will be available via

email or accessible through the student's Moodle Dashboard page. Deadlines for grades to appear on report cards can be seen on the Moodle calendar.

### **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.

Students will be provided with feedback and another opportunity to demonstrate sufficient learning of the outcomes when experiencing difficulty. Parent contact will also be made. If deemed necessary, contact with the student's home school may also occur to help determine a solution.

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.

### **Expectations:**

#### **To Complete and Finish Successfully:**

- 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 progress reports

### **Contact Information:**

#### **Having Trouble or Stuck?**

Your instructor will be available by email, Moodle messaging, or phone.

If you need a more in depth explanation, please feel free to call or if you are in the Vanderhoof area you can drop in by booking an appointment.

**Available Hours: Please see the specific course section for the availability of your teacher.**

**Toll free phone: 1 800 567 1236**