



Computer Science 11

(Computer Programming 11)

Course Outline

Course Overview

Computer Science 11 is an introductory programming course. You will learn how computers operate and how to create your own programs. By the end of the course, you should have learned

- How to program in Python
- How to solve problems using logic
- How to create a larger and more complex program
- How to use Thonny as a tool for programming
- How to develop a program including organization, time management, and details

These mentioned topics will be studied with use of the Communication, Thinking, and Personal & Social core competencies.

Course Content

- Unit 1 – First Computer Program
 - Introduction, development environment, first program
- Unit 2 – Beginner Programming
 - Variables and Types, Input and Output, Math Operators, Logic and If...else Statements
- Unit 3 – Intermediate Programming
 - Comments, Lists, and Loops
- Unit 4 – Advanced Programming
 - Functions, Variable Scope, Random Numbers, Pseudocode, and debugging
- Unit 5 – Capstone Project
 - Review, Useful Tips and culminating project

Course Materials

- Other than a computer, and internet connection, no additional resources are required for this course. The required software, Thonny, is free to download.

The prescribed learning outcomes for this course are available at:

[BC's Curriculum Computer Programming 11](#)

Assessment Information

- Provide a breakdown of the weighting in the course. The course outline must clearly indicate how a student's overall grade will be calculated.

Item	Weight
Learning Guides	20%
Projects (Units 2-4)	40%
Quizzes	20%
Capstone Project (Unit 5)	20%

Supervised and Invigilated Exams:

There are no invigilated exams in this course

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.

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

Contacting Your Teacher:

Your teacher will be available Monday to Friday during regular school hours. If you are having trouble with any concepts, please contact your teacher right away!

- You may set up a one-to-one help session should you need it, using the link below.
<https://bit.ly/3z50yKe>
- If you are a full-time EBUS student you can reach me through MS Teams chat (search for Maria Devauld), else you can reach me through Moodle chat. As a last resort I am available via email: mdevauld@sd91.bc.ca