Delta School District
Inspired Learning
Delta Access Online Learning School

# Computer Programming 11

**Mr Yang: cyang@deltalearns.ca**

## Course Content and Timelines

The timelines suggested are based on a 10-month fall course **September to mid June.**

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| **Unit 1: Intoduction to the Development Environment**<br>**(September to the Beginning of October October – about 4 weeks)** |
| **Unit 2: Beginning Programming**<br>• **Basic Input and Output**<br>• **Working with Variables and Math Operations**<br>• **Conditional Statements**<br>**(October to End of December – about 12 weeks)** |
| **Unit 3: Intermediate Programming**<br>• **Controlling program flow with while and for loops**<br>• **Storing data in lists**<br>**(January to end of February – about 8 weeks)** |
| **Unit 4: Advanced Program**<br>• **Encapsulation with function development**<br>• **Variable Scope**<br>• **Pseudocode**<br>**(March to End of April – about 8 weeks)** |
| **Unit 5: Capstone Project**<br>**(May to end of June – about 6 weeks)** |

If you are joining a course with less time left you will want to adjust your timing accordingly-**must complete everything by July 31.**

## Course Materials

No textbook is required. Course content is delivered on our D2L platform by videos, online links and associated learning logs/worksheets.

## Additional Websites

There are a wide variety of pages and websites that have information about programming in Python that may help students:
**Khan Academy**: https://www.khanacademy.org/computing/intro-to-python-fundamentals
**W3Schools**: https://www.w3schools.com/python/python_intro.asp
**Codecacademy:** https://try.codecademy.com/learn-python-3

Are you looking for challenging problems? Try some of the code problems at: https://dmoj.ca/

## Assessment Information

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| **Learning Guides** | **10%** |
| **Projects** | **20%** |
| **Unit Quizzes** | **25%** |
| **Unit Programming Quizzes** | **25%** |
| **Capstone Project** | **20%** |

### Learning Guides:

Learning guides are booklets that will serve as your workbooks and notes. They will be good places to keep ideas that you can reference later.

### Unit Quizzes:

At the end of some units, there will be a quiz to complete. These are online tests written on the course website. The are **password protected** so you will need to sign up at one of our test centers for a supervised test session. Please refer to our school website www.deltaaccess.ca and click on the Book a Test? link

### Projects:

Within each unit, there is a list of projects for students to complete that begin with in inquiry queston. Students are encouraged to try several of the projects, but only one needs to be submitted for marks. It will be accompanied by a complete and working Python .py file. If you want to try creating your own project, you can do so in consultation with your teacher. It must include examples of the work that is covered in the unit.

### Unit Programming Quizzes:

These are programs that you will be asked to create the code for short programs. You may have access to a basic online IDE but will need to copy/paste the code to your test.

## Reporting

### Bi-weekly Progress Reports:

These will be sent to both students and parents through D2L. These reports are sent via email and are based on information provided on course introduction forms filled out. Please make sure you D2L profile is up to date with this information to ensure these are received. If you need assistance with this, please contact me at cyang@deltaschools.ca to help you make sure are getting these reports.

### Report Cards:

These will be issued for the Fall term in November, March and June. For Spring/Summer only a final reports card issued in August will be done. These reports are available for Delta School District students on student and parent connect. For those not attending one of our high schools please call our Continuing Education office 604-940-5550 to have a copy sent.

In order to be active and get a term report card, you must complete and submit the learning logs as well, complete the unti quizzes and submit your unit projects, with all requirement activity having been met

Course reports are based on only what has been submitted for the Fall until April 1st and at this time all missing assignments will count in grade calculations giving students a realistic picture of current course standings. It is important when viewing report cards and progress reports up until this point that the amount of the course completed is taking into consideration. (ie. 90% standing in a course that is only 10% complete is very different than 90% in a course that is 80% complete)

## Contacting your Teacher

You can email me anytime at **cyang@deltalearns.ca**