**Computer Programming 11**

Please read each portion of the following pages carefully. It must be completed in full before you are placed in the active class. It’s worth 100 marks and makes up 5% of your overall grade. Please answer right on this form.

**Course Selection/Student Learning Plan (SLP) Form  
Answer the following questions and fill in the chart below. Don’t forget to date and sign the page.**

1. Why have you selected this course and how does it fit into your Educational Goals? ***I like Computer Science and have some experience with it.***
2. What grade are you currently in? ***11***

In the following chart fill in any grade 10, 11 and 12 courses you have **already completed = C** or are **currently taking/are in progress = IP**. If there are courses you have not taken yet simply **leave it blank**.

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| **Required Courses…** | | | | | |
| **GRADE 10** | **C/IP** | **GRADE 11** | **C/IP** | **GRADE 12** | **C/IP** |
| English 10 (two 2-credit courses) | C | Any English 11 course | C | Any English 12 course |  |
| Any Mathematics 10 credit | C | Explorations in Social Studies 11 |  | Career Life Connections 12 |  |
| Physical and Health Education 10 | C | Any Science 11 course |  |  | |
| Career Life Education 10 | C | Any Mathematics 11course |  |
| Social Studies 10 | C |  | |
| Science 10 | C |  | | | |
| List **ONE** Fine Arts/Applied Skills course from grade 10, 11 or 12: | | | | PROFESSIONAL COOK 1 11A | C |
| **Elective Credits…** | | | | | |
| **GRADE 10** | **C/IP** | **GRADE 11** | **C/IP** | **GRADE 12** (Minimum 3 courses) | **C/IP** |
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*You can add more rows by clicking into the last box (bottom right) and clicking on the* ***Tab*** *key.*

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| Student’s/Parent’s E-Signature: Tyler Delane Date: 2020-11-10  Student’s Full Name (Please Print): Tyler James Delane Email: tydel@tydel.com  Date of Birth (Month,-Day,-Year): 06/19/1983 PEN (MUST be 9-digits): 103443602 |

*NOTE: For the E-Signature you can simply type in the name.*

**Course Information:**

Please read the following information with regards to your course.

<https://curriculum.gov.bc.ca/curriculum/adst/11/computer-programming>

**Prescribed Learning Outcomes**

Please review the Ministry of Education’s Prescribed Learning Outcomes for Computer Programming11:

**Resources**

All the resources are available online.

**Assessment**

The Computer Programming 11 course is graded as follows:

1. 100% - **Assignments** **and Online Quizzes**

**Course Timeline**

The following timeline will be used in this course.

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| **Course Topics/Units** | **Approximate Date I Intend to complete.** |
| Start Date (The Day You Enrolled) | 2020-11-10 |
| 1. Unit 1 Expressions, Variables and Operators | 2020-11-17 |
| 1. Unit 2 Control Flow | 2020-11-24 |
| 1. Unit 3 Functions, Arrays, and Debugging | 2020-12-01 |
| 1. Unit 4 Intro to classes | 2020-12-08 |
| 1. Unit 5 Data Abstraction | 2020-12-15 |
| 1. Unit 6 GUI’s | 2020-12-22 |
| 1. Unit 7 Java I/O | 2020-12-29 |

**The Assignment**

**Email and Image Profile**

1. Add an image that represents you to your profile. If you enjoy sports then add a sports image. Go to My Home > Profile > Change Picture
2. Add a signature (your name) to your VLN Email. Go to Email tab > Settings.
3. Forward your incoming VLN email to your external email address. Go to Email tab > Settings (Forwarding Options).

**Questions**

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| 1. What do computers do? |
| In simple terms, computers manipulate data for us in several different ways; by storing, retrieving, and processing data. |

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| 1. What is declarative knowledge and what is imperative knowledge. Give an example other than finding the square root of a number. |
| Declarative knowledge tells you the “what” but not the “how”. Imperative knowledge shows your how to find the answer. For an example, in school mathematics you’re always requested to provide your work to show how you came to your answer (imperative) versus just putting the answer (declarative). |

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| 1. Why do we care about imperative knowledge as programmers? |
| In imperative programming, we express functions that we want the program to perform in order to achieve an end goal, versus declarative programming which focuses on describing what we want the program to achieve without specifying how the program should come to that result. |

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| 1. What are the 3 steps to writing an algorithm? |
| Input, processing, output. |

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| 1. What are primitives in regards to computer programming? |
| Primitives are the smallest/most basic unit available on a given machine. Units/types like byte, short, int, long, float, boolean, etc are all primitives. |

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| 1. In your own words describe data abstraction. |
| Data abstraction involves taking a dataset and reducing it down to the essential data required to present the data without extraneous data getting in the way. |

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| 1. What are the basic 2 components of a recipe? |
| Ingredients, and instructions? |

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| 1. What are the 3 types of errors? |
| Logical, syntax, and semantic errors. |

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| 1. Why are semantic errors the most difficult? |
| Because logic and syntax are a very overtly defined “language” which makes it much easier to find and fix the error. Fixing semantic errors requires following the programmer’s vision for how the program is to work which isn’t so cut and dry as to the other types of errors as there’s often many ways to achieve a goal. |

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| 1. Take a screen shot of the JDK 10 installed on your computer |
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| 1. Take a screen shot of your Hello World program but substituting World with your name |
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| 1. Why is java such a popular programming language? |
| A few of the reasons that Java is so popular is because of the platform independence of the JVM, and that it’s often regarded as the model language of OOP which makes solving complex issues much easier than other programming methodologies. |

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| 1. Name an advantage and a disadvantage of the JVM |
| As previously mentioned, Java’s platform independence is often seen as one of its best advantages whereas the lower performance and higher memory utilization are often seen as the primary disadvantages; |

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| 1. What type of files will we be writing code in? |
| .java files? |

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| 1. What programming experience if any do you have? |
| I have some experience in C/C++ and TurboPascal from high school. Post-highschool I’ve learned to program in several languages (perl, python, php, go, bash, javascript, etc) but never another compiled language such as Java. |

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| 1. Why does learning about programming interest you? |
| I think that object-oriented programming is a far superior methodology to procedural oriented programming in most scenarios and requirements. |

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| 1. Do you intend to pursue a career in computer science? |
| Yes. |

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| 1. What topics about computer science interest you the most? |
| I enjoy automation and big data analytics the most. |
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| 1. A logic Puzzle   A panel of music historians ranked eight contemporary songwriters – Jackson, King, Lennon, Mitchell, Nicks, Prince, Simon, and Wonder – according to their relative impact on the evolution of the popular song form. No other songwriters were considered, and there were no ties in the final ranking. The ranking of the songwriters met the following conditions:  Nicks was ranked higher than Lennon but lower than Simon.  Prince was ranked lower than both Mitchell and Jackson.  Wonder was ranked lower than Nicks.  Jackson was ranked higher than Simon.  Nicks was ranked higher than King.  1. Which one of the following could represent the ranking of songwriters, listed from highest to lowest?   * (A) Jackson, Simon, King, Mitchell, Prince, Nicks, Lennon, Wonder * (B) Jackson, Simon, Prince, Nicks, Mitchell, Wonder, Lennon, King * (C) Mitchell, Simon, Jackson, Prince, Nicks, Lennon, Wonder, King * (D) Mitchell, Jackson, Simon, Nicks, King, Wonder, Lennon, Prince * (E) Mitchell, Jackson, Prince, Simon, Lennon, Wonder, Nicks, King |
| D |

**Anti-Plagiarism Student Contract**

Top of Form

I, **Tyler Delane,** understand that VLN has a zero tolerance policy on plagiarism. Plagiarism is presenting someone else’s work (or parts of someone else’s work) as though it is my own. I understand that if I am found to be plagiarizing, I will receive a zero for that assignment. Repeated offenses will result in failure or withdrawal from the course or school.

Top of Form

Dated: November 10, 2020

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| **Formal procedures for cases of plagiarism:**  *First incident*: Student receives zero on assignment and must contact teacher by email immediately.  *Second incident*: Student receives zero on assignment and must make an appointment to see the teacher in person.  *Third incident*: Student fails or is withdrawn from course and/or school. |

**Assignment Feedback**

Course Name: Computer Programming 11

Student Name: **Tyler Delane**

Feedback Date: November 10, 2020

Mark: %

Teacher Comments:

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**Ok, I am done the assignment, what do I do now?**

* First step is to SAVE AS and name the file ***StartUp\_LastnameFirstname\_CP11.doc***
* Next step is to upload to the ASSIGNMENTS in your classroom.
* The teacher will then mark your assignment, provide you with feedback and then begin the process open the whole course to you.