**Digital Media and IT**

**CPSC1012 – Programming Fundamentals**

**Fall 2019 Term Detail Planning Calendar 2019-09-22**

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| **Week** | **Day 1** | **Day 2** | **Day 3** |
| **1**  **Sep 02-06** | **Labour Day Holiday on Monday** | **Introduction to Course**   * LinkedIn/Learning formerly Lynda.com   **Elementary Programming**   * First Minimal C# Program * The Visual Studio IDE * Solution vs Projects in VS | **Elementary Programming**   * The Parts of a C# Program * Comments * Namespace, Class, Members * The **Console.WriteLine** Method * Directives: **Using** * The **Console.ReadLine** Method * String Vaiables |
| **2**  **Sep 09-13** | **Sequence Structures**   * int, double, bool, Variables * String Building * Arithmetic Operators and Precedence * Casting double to int   **Work on Core Portfolio-1** | **Sequence Structures**   * Programming Best Practices * Practice with Sequence   **Work on Core Portfolio-1** | **Sequence Structure**   * Practice with Sequence   **Work on Core Portfolio-1** |
| **3**  **Sep 16-20** | Decision Structures  * The if Statement * The if-else Statement * The if-else-if Statement   **Work on Core Portfolio-1** | Decision Structures  * Nested if Statements * Practice with if   **Work on Core Portfolio-1** | **Inclass-1 (Sequence)**  **2 hr due end of class 5%**  **Work on Core Portfolio-1**  **Core Portfolio-1 (Sequence) due**  **Sunday at 11:00 PM 5%** |
| **4**  **Sep 23-27** | **Decision Structures**   * Logical Operators * Conditional Operators   **Work on Core Portfolio-2** | Decision Structures  * The switch-case Statement * Practice with switch-case   **Work on Core Portfolio-2** | Quiz-1 (Sequence)1hr Pencil & Paper/Moodle 5% **Work on Core Portfolio-2** |
| **5**  **Sep 30-04** | Looping Structures  * The for Loop * The **break** Statement * The Increment and Decrement Operators   **Work on Core Portfolio-2** | **Looping Structures**   * The while Loop * Multiple while loops but not nested   **Work on Core Portfolio-2** | **Inclass-2 (Decision: if-else)**  **2 hr due end of class 5%**  **Work on Core Portfolio-2** |
| **6**  **Oct 07-11** | **Looping Structures**   * The do-while Loop * Nested do-while & while Loops   **Work on Core Portfolio-2** | Methods  * Introduction to Methods * Passing Arguments to a Method * More about Local Variables * Return a Value from a Method * Problem Solving with Methods   **Work on Core Portfolio-2** | **Inclass-3 (Decision: switch-case)**  **2 hr due end of class 5%**  **Work on Core Portfolio-2**  **Core Portfolio-2 (Decision) due**  **Sunday at 11:00 PM 5%** |
| **7**  **Oct 14-18** | **Thanksgiving Day Holiday on Monday** | **Quiz-2 (Decision)** 1hr Pencil & Paper/Moodle 5% **Work on Core Portfolio-3** | **Open House No Classes Friday**  **Work on Core Portfolio-3** |
| **8**  **Oct 21-25** | **Methods**   * Practice with Methods   **Work on Core Portfolio-3** | **Methods**   * Practice with Methods   **Work on Core Portfolio-3** | **Inclass-4 (Loops: for-loop)**  **2 hr due end of class 5%**  **Work on Core Portfolio-3** |

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| **9**  **Oct 28-01** | **Methods**   * Practice with Methods   **Work on Core Portfolio-3** | **Exception Handling**   * Handling Exceptions with try-catch * Throwing Exceptions   **Work on Core Portfolio-3** | **Inclass-5 (Loops: while-loop)**  **2 hr due end of class 5%**  **Work on Core Portfolio-3**  **Core Portfolio-3 (Loops) due**  **Sunday at 11:00 PM 5%** |
| **10**  **Nov 04-08** | Arrays  * Introduction to Arrays * Processing Array Elements * Passing Arrays as Arguments to Methods   **Work on Core Portfolio-4** | Arrays  * Some Useful Array Algorithms and Operations * Returning Arrays from Methods * String Arrays * 2-D Arrays   **Work on Core Portfolio-4** | **Quiz-3 (Loops)** 1hr Pencil & Paper/Moodle 5% **Work on Core Portfolio-4** |
| **11**  **Nov 11-15** | **Remembrance Day Holiday Monday** | **Objects and Classes**   * Objects and Classes * Write a Simple Class * Instance Field and Methods * Constructors   **Work on Core Portfolio-4** | **Inclass-6 (Methods)**  **2 hr due end of class 5%**  **Work on Core Portfolio-4**  **Core Portfolio-4 (Methods) due** Sunday at 11:00 PM 5% |
| **12**  **Nov 18-22** | **Objects and Classes**   * Passing Objects as Arguments * Scope of Instance Fields   **Work on Core Portfolio-5** | **Objects and Classes**   * Practice with Objects and Classes   **Work on Core Portfolio-5** | **Files**   * Introduction to File Input and Output   **Work on Core Portfolio-5**  **Core Portfolio-5 (Arrays) due**  **Sunday at 11:00 PM 5%** |
| **13**  **Nov 25-29** | **Work on Advanced Portfolio** | **Work on Advanced Portfolio** | **Quiz-4 (Methods & Arrays)** 1hr Pencil & Paper/Moodle 5% **Work on Advanced Portfolio** |
| **14**  **Dec 02-06** | **Work on Advanced Portfolio** | **Work on Advanced Portfolio**  **Advanced Portfolio 1 due**  **In-Class 5%** | **Work on Advanced Portfolio**  **Advanced Portfolio 2 due**  **In-Class 5%** |
| **15**  **Dec 09-13** | **Work on Advanced Portfolio**  **Advanced Portfolio 3 due**  **In-Class 5%** | **Work on Advanced Portfolio**  **Advanced Portfolio 4 due**  **In-Class 5%** | **Work on Advanced Portfolio**  **Advanced Portfolio 5 due**  **In-Class 5%** |

Core portfolio (25% course weight) requires a 50% overall average in order to pass the course.

Quiz portion (20% course weight) requires a 50% overall average in order to pass the course.

In-class assignments (30% course weight) requires a 50% overall average in order to pass the course.

If one or more of the above components is not passed, then the student receives the lowest component mark as a course grade.

Advanced portfolio (25% course weight) **does not** require a 50% overall average in order to pass the course.