Seneca | SCHOOL OF SOFTWARE DESIGN & DATA SCIENCE

Course Addendum

Semester**:** **Fall 2020** Subject Code: **OOP345** Section**: NHH & NHHL**
Subject Title: **Object-Oriented Software Development using C++**
Professor: **Mufleh Al-Shatnawi** Office**: Online**
E-mail: **mufleh.al-shatnawi@senecacollege.ca** Ext**.**
Office Hours**:** I will make myself available for office hours by appointment. Please email me to schedule a meeting using *Microsoft Teams*.

Please read this addendum to the general course outline carefully. It is your guide to the course requirements and activities.

Please refer to the course outline for learning outcomes, course description and text and materials.

Please also visit ict.senecacollege.ca for key information on courses, graduation requirements, transfer credit, and more from the School of Software Design and Data Science.

Assessment Summary

Workshops	**30%**	Best 8 (@3.75%ea) out of 9
Final Project	**15%**	
Quizzes	**15%**	Best 8 (@1.875%ea) out of 10
Test #1 (Midterm Test)	**20%**	
Test #2 (Final Test)	**20%**	

Course Policies

- Achieve a grade of 50% or better on the *Test #2*
- Achieve an average of 50% or better for the *Test #1* and *Test #2*
- Satisfactorily complete the *Project*
- Achieve a grade of 50% or better on the overall course

Academic Policies:

http://www.senecacollege.ca/about/policies/academics-and-student-services.html

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TENTATIVE WEEKLY SCHEDULE
Fall 2020

Week	Topic or Skill for the Week	Reading for the Next Week	Assessment for the Week	Weight
Week 1 **September 14 – 18**	• C++ Building Blocks • Compilation and Execution	• Fundamental Types • Pointers, References and Arrays • Classes and Scoped Enumerations		
Week 2 **September 21 – 25**	Fundamental, Built-In and User Defined Types	• Inheritance and Inclusion Polymorphism • Templates	• Quiz #1 • Workshop #1	• 1.875% • 3.75%
Week 3 **September 28 – October 2**	Inheritance and Polymorphism	• Compositions, Aggregations and Associations • Expressions	• Quiz #2 • Workshop #2	• 1.875% • 3.75%
Week 4 **October 5 – 9**	Class Relationship and Expressions	• Functions • Error Handling	• Quiz #3 • Workshop #3	• 1.875% • 3.75%
Week 5 **October 12 – 16**	Functions and Error Handling	• Standard Library • Containers and Iterators	• Quiz #4 • Workshop #4	• 1.875% • 3.75%
Week 6 **October 19 – 23**	Standard Library, Containers and Iterators	• Algorithms • File Stream Objects	• Quiz #5 • Workshop #5 • Midterm Test • Project Release	• 1.875% • 3.75% • 20%
Study Week				

Week 7 **November 2 – 6**	**Standard Library Algorithms and File Objects**	• **Raw Pointers** • **Smart Pointers**	• **Quiz #6** • **Workshop #6**	• **1.875%** • **3.75%**
Week 8 **November 9 – 13**	**Pointers**	• **Multi-Threading** • **Thread Classes**	• **Quiz #7** • **Workshop #7**	• **1.875%** • **3.75%**
Week 9 **November 16 – 20**	**Multi-Threading**	• **Pre-Processor Directives** • **Arrays and Pointers to Arrays**	• **Quiz #8** • **Workshop #8**	• **1.875%** • **3.75%**
Week 10 **November 23 – 27**	**Pre-processing and More on Arrays**	• **Multiple Inheritance** • **Bit-Wise Expressions**	• **Quiz #9** • **Workshop #9**	• **1.875%** • **3.75%**
Week 11 **November 30 – December 4**	**Inheritance from Multiple Classes and Byte Decomposition**	• **Linked List Technology**	• **Quiz #10** • **Project Due**	• **1.875%** • **15%**
Week 12 **December 7 – 11**	**Linked Lists**	• **Review**	• **Final Test**	• **20%**

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