

Course Addendum

Semester: **Winter 2021** Subject Code: **OOP345** Section: **NAA**
Subject Title: **Object-Oriented Software Development using C++**

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 sdds.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 (Multipart Midterm Test)	20%	
Test #2 (Multipart 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

Each workshop has a non-coding part: a *reflection*. Reflection does not have a mark associated but can incur a **penalty of max 40%** of the whole workshop's mark if the professor deems it insufficient.

A student can get credit only for complete workshops (all coding and non-coding parts of the workshop are submitted); incomplete workshops receive **0%**.

Academic Policies:

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

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TENTATIVE WEEKLY SCHEDULE

Winter 2021

Week	Topic or Skill	Reading	Assessment	Weight
Week 1 January 11 – 15	<ul style="list-style-type: none"> • C++ Building Blocks • Compilation and Execution 	<ul style="list-style-type: none"> • Fundamental Types • Pointers, References and Arrays • Classes and Scoped Enumerations 		
Week 2 January 18 – 22	<ul style="list-style-type: none"> • Fundamental Types • Pointers, References and Arrays • Classes and Scoped Enumerations 	<ul style="list-style-type: none"> • Inheritance and Inclusion Polymorphism • Templates 	<ul style="list-style-type: none"> • Quiz #1 • Workshop #1 	<ul style="list-style-type: none"> • 1.875% • 3.75%
Week 3 January 25 – 29	<ul style="list-style-type: none"> • Inheritance and Inclusion Polymorphism • Templates 	<ul style="list-style-type: none"> • Compositions, Aggregations and Associations • Expressions 	<ul style="list-style-type: none"> • Quiz #2 • Workshop #2 	<ul style="list-style-type: none"> • 1.875% • 3.75%
Week 4 February 1 – 5	<ul style="list-style-type: none"> • Compositions, Aggregations and Associations • Expressions 	<ul style="list-style-type: none"> • Functions • Error Handling 	<ul style="list-style-type: none"> • Quiz #3 • Workshop #3 	<ul style="list-style-type: none"> • 1.875% • 3.75%
Week 5 February 8 – 12	<ul style="list-style-type: none"> • Functions • Error Handling 	<ul style="list-style-type: none"> • Standard Library • Containers and Iterators 	<ul style="list-style-type: none"> • Quiz #4 • Workshop #4 	<ul style="list-style-type: none"> • 1.875% • 3.75%
Week 6 February 15 – 19	<ul style="list-style-type: none"> • Standard Library • Containers and Iterators 	<ul style="list-style-type: none"> • Review 	<ul style="list-style-type: none"> • Quiz #5 • Workshop #5 	<ul style="list-style-type: none"> • 1.875% • 3.75%
Week 7 February 22 – 26	<ul style="list-style-type: none"> • Review 	<ul style="list-style-type: none"> • Algorithms • File Stream Objects 	<ul style="list-style-type: none"> • Midterm Test • Project Release 	<ul style="list-style-type: none"> • 20%
Study Week				

Week 8 March 8 – 12	<ul style="list-style-type: none"> • Algorithms • File Stream Objects 	<ul style="list-style-type: none"> • Raw Pointers • Smart Pointers 	<ul style="list-style-type: none"> • Quiz #6 • Workshop #6 	<ul style="list-style-type: none"> • 1.875% • 3.75%
Week 9 March 15 – 19	<ul style="list-style-type: none"> • Raw Pointers • Smart Pointers 	<ul style="list-style-type: none"> • Multi-Threading • Thread Classes 	<ul style="list-style-type: none"> • Quiz #7 • Workshop #7 	<ul style="list-style-type: none"> • 1.875% • 3.75%
Week 10 March 22 – 26	<ul style="list-style-type: none"> • Multi-Threading • Thread Classes 	<ul style="list-style-type: none"> • Pre-Processor Directives • Arrays and Pointers to Arrays 	<ul style="list-style-type: none"> • Quiz #8 • Workshop #8 	<ul style="list-style-type: none"> • 1.875% • 3.75%
Week 11 March 29 – April 2	<ul style="list-style-type: none"> • Pre-Processor Directives • Arrays and Pointers to Arrays 	<ul style="list-style-type: none"> • Multiple Inheritance • Bit-Wise Expressions 	<ul style="list-style-type: none"> • Quiz #9 • Workshop #9 	<ul style="list-style-type: none"> • 1.875% • 3.75%
Week 12 April 5 – 9	<ul style="list-style-type: none"> • Multiple Inheritance • Bit-Wise Expressions 	<ul style="list-style-type: none"> • Linked List Technology 	<ul style="list-style-type: none"> • Quiz #10 • Project Due 	<ul style="list-style-type: none"> • 1.875% • 15%
Week 13 April 12 – 16	<ul style="list-style-type: none"> • Linked List Technology 	<ul style="list-style-type: none"> • Review 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> •
Week 14 April 19 – 23	<ul style="list-style-type: none"> • Review 	<ul style="list-style-type: none"> • Review 	<ul style="list-style-type: none"> • Final Test 	<ul style="list-style-type: none"> • 20%

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