

Course Addendum

Semester: **Winter 2022** Subject Code: OOP345 Section: **NRA, ZAA, NFF**
Subject Title: **Object-Oriented Software Development using C++**
Professor: **Gvarami Labartkava** Office: **NA/At the meeting room**
E-mail: **gvarami.labarkava@senecacollege.ca** Office Hours: **TBD**

Created by: **CORNEL BARNA**

Approved by: _____
Kathy Dumanski, Chair, School of Software Design and Data Science

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.

Please note that during the Fall semester for your hybrid course, the lecture meeting is online and the lab meeting is in-person.

Assessment Summary

Workshops	25%	Best 8 (@3.125% each) out of min. 9
Final Project	15%	
Quizzes	15%	Best 8 (@1.875% each) out of min. 10
Test #1	15%	
Test #2	30%	

Course Policies

- Achieve a grade of 50% or better on the weighted average of the tests.
- Submit a complete working *Project*
- Grading Policy: <http://www.senecacollege.ca/about/policies/grading-policy.html>

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%**.

The [project](#) is considered complete if all milestones are submitted, and the implementation follows the requirements from the project description.

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TENTATIVE WEEKLY SCHEDULE

Winter 2023

Week	Topic or Skill	Reading	Assessment	Weight
Week 1	<ul style="list-style-type: none"> • Overview • C++ Building Blocks • Compilation and Execution 	<ul style="list-style-type: none"> • Fundamental Types • Pointers, References and Arrays • Classes and Scoped Enumerations 		
Week 2	<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 • Class Templates 	<ul style="list-style-type: none"> • Quiz #1 • Workshop #1 	<ul style="list-style-type: none"> • 1.875% • 3.125%
Week 3	<ul style="list-style-type: none"> • Inheritance and Inclusion Polymorphism • Class 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% • 3.125%
Week 4	<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% • 3.125%
Week 5	<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% • 3.125%
Week 6	<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% • 3.125%
Week 7	<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"> • 15%
Study Week				

Week 8	<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% • 3.125%
Week 9	<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% • 3.125%
Week 10	<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% • 3.125%
Week 11	<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% • 3.125%
Week 12	<ul style="list-style-type: none"> • Multiple Inheritance • Bit-Wise Expressions 	<ul style="list-style-type: none"> • Linked List Technology • Other Topics 	<ul style="list-style-type: none"> • Quiz #10 • Project Due 	<ul style="list-style-type: none"> • 1.875% • 15%
Week 13	<ul style="list-style-type: none"> • Linked List Technology • Other Topics 	<ul style="list-style-type: none"> • Review 		
Week 14	<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"> • 30%

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