Course Code	OOP345	Course Section	Type Course Section	Course Title	Object-Oriented Software Development Using C++
Term	Fall 2024 (2247)	Course Outline Link	Course Outline Link	Instructional Mode	Flexible
Scheduled Weekday for Lecture	Select Day Class is Scheduled	Scheduled Class Start Time (in Eastern Time)	Select Start Time	Scheduled Class End Time (in Eastern Time)	Select End Time
Scheduled Weekday for Lab	Select Day Class is Scheduled	Scheduled Class Start Time (in Eastern Time)	Select Start Time	Scheduled Class End Time (in Eastern Time)	Select End Time
September - December					
Professor's Name	Cornel Barna	Professor's Email Address	cornel.barna@senecapolytechnic.ca	Professor's Telephone Number	NA
Scheduled Office Hours	Tuesday 11:50 - 13:20 (A3058, Newnham Campus) Thursday 13:40 - 15:10 (A3058, Newnham Campus)	Professor's Preferred Method of Communication	email	Expected Response Time	1 bussiness day

Assessment Summary		
Workshops	20%	
Quizzes	10%	
Test #1 (midterm)	30%	
Test #2 (final)	40%	



The semester start	s on 3rd September			-	
Week	Class type	Topics/Activities	Instruction Mode	Class Location	Assessment (Type and weight)
Week 1  Lab	Lecture	Overview: https://advoop.sdds.ca/A-Introduction/overview     Co. D. ildia a Disclay by the color of the	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	
	C++ Building Blocks: https://advoop.sdds.ca/A-Introduction/cpp-building-blocks     Compilation and Execution: https://advoop.sdds.ca/A-Introduction/compilation-and-execution	In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)		
Week 2	Fundamental Types: https://advoop.sdds.ca/B-Types/fundamental-types     Pointers, References and Arrays: https://advoop.sdds.ca/B-Types/pointers-references-and-arrays     Classes and Scoped Enumerations: https://advoop.sdds.ca/B-Types/classes-and-scoped-enumerations	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)		
		In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)		
Week 3	Lecture	Inheritance and Inclusion Polymorphism: https://advoop.sdds.ca/C-Class-Relationships/inheritance-and-	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	. Ori- H4 (2 F0()
Lab	inclusion-polymorphism     Class Templates: https://advoop.sdds.ca/C-Class-Relationships/class-templates	In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)	• Quiz #1 (2.5%)	
Week 4	Compositions, Aggregations and Associations: https://advoop.sdds.ca/C-Class-Relationships/compositions-aggregations-and-associations     Expressions: https://advoop.sdds.ca/D-Processing/expressions	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	• Workshop #1 (3%)	
		In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)		
Week 5	Lecture	• Functions: https://advoop.sdds.ca/D-Processing/functions	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	• Quiz #2 (2.5%)
	Error Handling: https://advoop.sdds.ca/D-Processing/error-handling	In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)	• Quiz #2 (2.5%)	
Week 6	Lecture	Standard Library: https://advoop.sdds.ca/E-STL/standard-library	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	• Workshop #2 (5%)
	Lab	Containers and Iterators: https://advoop.sdds.ca/E-STL/containers-and-iterations	In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)	

Lecture  Week 7  Lab	Lecture	• Test #1 (midterm)	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	• Test #1 (30%)
	Lab	• rest #1 (muterm)	In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)	
		Study week is from 21th	October to 25th October		
Week 8	Lecture	Algorithms: https://advoop.sdds.ca/E-STL/algorithms	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	
WCCK 0	Lab	File Stream Objects: https://advoop.sdds.ca/E-STL/file-stream-objects	In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)	
Week 9	Lecture	• Raw Pointers: https://advoop.sdds.ca/F-MemoryModel/raw-pointers	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	• Quiz #3 (2.5%)
Week 3	Lab	Smart Pointers: https://advoop.sdds.ca/F-MemoryModel/smart-pointers	In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)	
Week 10	Lecture	Multi-Threading: https://advoop.sdds.ca/G-Performance/multithreading     Thread Classes: https://advoop.sdds.ca/G-Performance/thread-classes	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	• Workshop #3 (5%)
WEEK 10	Lab		In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)	
Work 11	Week 11 Lab	Pre-Processor Directives: https://advoop.sdds.ca/H-Deeper-Detail/pre-processor-directives Arrays and Pointers to Arrays: https://advoop.sdds.ca/H-Deeper-Detail/arrays-and-pointers	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	• Quiz #4 (2.5%)
Week 11			In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)	
Wook 12	Lecture	Multiple Inheritance: https://advoop.sdds.ca/H-Deeper-Detail/multiple-inheritance     Bit-Wise Expressions: https://advoop.sdds.ca/H-Deeper-Detail/bit-wise-expressions	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	• Workshop #4 (7%)
Week 12	Week 12		In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)	
Week 13	Lecture	Linked List Technology: https://advoop.sdds.ca/H-Deeper-Detail/linked-list-technology	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	
Week 13	Lab	Other Topics: https://advoop.sdds.ca/H-Deeper-Detail/other-topics	In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)	
Week 14	Lecture	• Test #2 (final)	Flexible (Attend on campus or online)	Physical Classroom (B·1083, Newnham Campus)	• Test #2 (40%)
	Lab	- 165t #2 (IIIIdi)	In-Person (Attend on campus)	Physical Classroom (C·3030, Newnham Campus)	

#### Other Important Semester Dates

Monday, September 2nd - Thanksgiving (Seneca Closed)

The semester ends 11th December

Monday, October 14th - Thanksgiving (Seneca Closed)

December 25th - January 2nd - Holiday Period (Seneca Closed)

## IMPORTANT INFO

Primary Addendum approved by:

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 Welcome | School of Computer Programming and Analysis (senecapolytechnic.ca) for key information on courses, graduation requirements, transfer credit, and more from the School of Computer Programming and Analysis.

## Course Policies

<u>Grading Policy (http://www.senecapolytechnic.ca/about/policies/grading-policy.html)</u>

http://www.senecapolytechnic.ca/about/policies/student-progression-and-promotion-policy.html

- Achieve a grade of 50% or better on the weighted average of the tests.
- Achieve a grade of 50% or better on the weighted average of all assessments.

A+	90% to 100%
A	80% to 89%
	75% to 79%
В	70% to 74%
C+	65% to 69%
С	60% to 64%
D+	55% to 59%
D	50% to 54%
F	0% to 49% (Not a Pass)

#### **Academic Policies**

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

For further information, see a copy of the Academic Policy, available online (http://www.senecapolytechnic.ca/about/policies/academics-and-student-services.html) or at Seneca's Registrar's Offices.

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