

# Course Addendum

Semester**: Winter 2022** Subject Code: **SEP200** Section**:**

Subject Title: **Object Oriented Programming**

Professor: Miguel WatlerOffice**:**

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Office Hours**: Monday 9:50am-11:35am, Thursday 9:50am-11:35am**

(Hours when your professors is available)

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](https://seneca-my.sharepoint.com/personal/laura_ojanen_senecacollege_ca/Documents/Course%20Materials/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 - 20%

Assignments - 30%

Quizzes - 10% (1 bonus quiz)

Test - 20%

Final Exam - 20%

## Course Policies

Satisfactorily complete all assignments (they have to be working)

Achieve a weighted average of 50% or better for the midterm and final exam

Achieve a grade of 50% or better on the overall course (midterm, final, quizzes, Workshops and assignments)

**Academic Policies:**

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

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**TENTATIVE WEEKLY SCHEDULE**

**Semester Year**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Topic or Skill** | **Reading** | **Assessment** | **Weight** |
| **Week 1**  **Jan 10-14** | **Object Terminology,**  **Static functions and variables,**  **Pre-Processor (during lab)** | **C++ Progr. Language Ch3,12**  **C++ Primer**  **Ch1** |  |  |
| **Week 2**  **Jan 17-21** | **Operator Overloading** | **C++ Progr. Language Ch18,19**  **C++ Primer**  **Ch7,14** | **1 pre-lecture quiz,**  **Workshop 1 (due end of week 3)** | **1% Quiz** |
| **Week 3**  **Jan 24-28** | **Copy Constructor, Assignment/ Move Assignment** | **C++ Progr. Language Ch18.19**  **C++ Primer**  **Ch7,8,14** | **1 pre-lecture quiz,**  **Workshop 2 (due end of week 4)** | **1% Quiz**  **2% Workshop** |
| **Week 4**  **Jan 31-Feb 4** | **Polymorphism: Derived Classes, Functions in a Hierarchy** | **C++ Progr. Language Ch20**  **C++ Primer**  **Ch15** | **1 pre-lecture quiz,**  **Workshop 3 (due end of week 5)** | **1% Quiz**  **2% Workshop 2** |
| **Week 5**  **Feb 7-11** | **Polymorphism: Virtual Functions, Abstract Base Classes** | **C++ Progr. Language Ch20,21**  **C++ Primer**  **Ch15** | **1 pre-lecture quiz,**  **Workshop 4 (due end of week 6)** | **1% Quiz**  **2% Workshop 3** |
| **Week 6**  **Feb 14-18** | **Function and Class Templates** | **C++ Progr. Language Ch23**  **C++ Primer**  **Ch16** | **1 pre-lecture quiz,**  **Workshop 5 (due end of week 7)** | **1% Quiz**  **2% Workshop 4** |
| **Week 7**  **Feb 21-25** | **Design, Review,**  **MidTerm** |  |  | **2% Workshop 5**  **20% midterm** |
|  |  | **Study Week** |  |  |
| **Week 8**  **Mar 7-11** | **Composition, Casting** | **C++ Primer**  **Ch7** | **1 pre-lecture quiz,**  **Workshop 6 (due end of week 9),**  **Assignment 1 (due end of week 10)** | **1% Quiz** |
| **Week 9**  **Mar 14-18** | **Standard Template Library: Containers and Iterators** | **C++ Progr. Language Ch30-33**  **C++ Primer**  **Ch9-11** | **1 pre-lecture quiz,**  **Workshop 7 (due end of week 10)** | **1% Quiz**  **2% Workshop 6** |
| **Week 10**  **Mar 21-25** | **Function pointers, Functors, Lambda expressions.**  **Linked Lists (during the lab, for assign 2)** | **C++ Progr. Language Ch7,11-13,31**  **C++ Primer**  **Ch3,6,14,18** | **1 pre-lecture quiz,**  **Workshop 8 (due end of week 11)** | **1% Quiz**  **2% Workshop 7**  **15% assign 1** |
| **Week 11**  **Mar 28-Apr 1** | **Standard Template Library: Algorithms, Error handling, Pointers to Arrays.** | **C++ Progr. Language Ch30-33**  **C++ Primer**  **Ch9-11** | **1 pre-lecture quiz,**  **Workshop 9 (due end of week 12),**  **Assignment 2 (due end of week 13)** | **1% Quiz**  **2% Workshop 8** |
| **Week 12**  **Apr 4-8** | **Smart Pointers, Multiple Inheritance, Bitwise Expressions.** | **C++ Progr. Language Ch11,12,21,34**  **C++ Primer**  **Ch2,4,12,18** | **1 pre-lecture quiz,**  **Workshop 10 (due end of week 13)** | **1% Quiz**  **2% Workshop 9** |
| **Week 13**  **Apr 11-15** | **Threads, C++ Language Standards** | **C++ Progr. Language Ch42** | **1 pre-lecture quiz** | **1% Quiz**  **2% Workshop**  **15% assign 2** |
| **Week 14**  **Apr 18-22** | **Review,**  **Final Exam** |  |  | **20% final** |

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