

**Course Addendum**

Semester**: Fall 2020** Subject Code: **OOP345** Section**: NGG**

Subject Title: **Object-Oriented Software Development using C++**

Professor: **Hong Zhan (Michael) Huang** Office**: Online**

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Office Hours**: TBA**

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](file:///C:\Users\Joule\Google%20Drive\Seneca%20Teaching\Fall%202020\OOP345\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 (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** | **Reading** | **Assessment** | **Weight** |
| **Week 1**  **September 14 – 18** | * [C++ Building Blocks](https://ict.senecacollege.ca/~oop345/pages/content/start.html) * [Compilation and Execution](https://ict.senecacollege.ca/~oop345/pages/content/stage.html) | * [Fundamental Types](https://ict.senecacollege.ca/~oop345/pages/content/funda.html) * [Pointers, References and Arrays](https://ict.senecacollege.ca/~oop345/pages/content/compt.html) * [Classes and Scoped Enumerations](https://ict.senecacollege.ca/~oop345/pages/content/class.html) |  |  |
| **Week 2**  **September 21 – 25** | * [Fundamental Types](https://ict.senecacollege.ca/~oop345/pages/content/funda.html) * [Pointers, References and Arrays](https://ict.senecacollege.ca/~oop345/pages/content/compt.html) * [Classes and Scoped Enumerations](https://ict.senecacollege.ca/~oop345/pages/content/class.html) | * [Inheritance and Inclusion Polymorphism](https://ict.senecacollege.ca/~oop345/pages/content/inher.html) * [Templates](https://ict.senecacollege.ca/~oop345/pages/content/templ.html) | * **Quiz #1** * **Workshop #1** | * **1.875%** * **3.75%** |
| **Week 3**  **September 28 – October 2** | * [Inheritance and Inclusion Polymorphism](https://ict.senecacollege.ca/~oop345/pages/content/inher.html) * [Templates](https://ict.senecacollege.ca/~oop345/pages/content/templ.html) | * [Compositions, Aggregations and Associations](https://ict.senecacollege.ca/~oop345/pages/content/compo.html) * [Expressions](https://ict.senecacollege.ca/~oop345/pages/content/expre.html) | * **Quiz #2** * **Workshop #2** | * **1.875%** * **3.75%** |
| **Week 4**  **October 5 – 9** | * [Compositions, Aggregations and Associations](https://ict.senecacollege.ca/~oop345/pages/content/compo.html) * [Expressions](https://ict.senecacollege.ca/~oop345/pages/content/expre.html) | * [Functions](https://ict.senecacollege.ca/~oop345/pages/content/funct.html) * [Error Handling](https://ict.senecacollege.ca/~oop345/pages/content/error.html) | * **Quiz #3** * **Workshop #3** | * **1.875%** * **3.75%** |
| **Week 5**  **October 12 – 16** | * [Functions](https://ict.senecacollege.ca/~oop345/pages/content/funct.html) * [Error Handling](https://ict.senecacollege.ca/~oop345/pages/content/error.html) | * [Standard Library](https://ict.senecacollege.ca/~oop345/pages/content/stlco.html) * [Containers and Iterators](https://ict.senecacollege.ca/~oop345/pages/content/seque.html) | * **Quiz #4** * **Workshop #4** | * **1.875%** * **3.75%** |
| **Week 6**  **October 19 – 23** | * [Standard Library](https://ict.senecacollege.ca/~oop345/pages/content/stlco.html) * [Containers and Iterators](https://ict.senecacollege.ca/~oop345/pages/content/seque.html) | * [Algorithms](https://ict.senecacollege.ca/~oop345/pages/content/algor.html) * [File Stream Objects](https://ict.senecacollege.ca/~oop345/pages/content/files.html) | * **Quiz #5** * **Workshop #5** * **Midterm Test** * **Project Release** | * **1.875%** * **3.75%** * **20%** |
| **Study Week** | | | | |
| **Week 7**  **November 2 – 6** | * [Algorithms](https://ict.senecacollege.ca/~oop345/pages/content/algor.html) * [File Stream Objects](https://ict.senecacollege.ca/~oop345/pages/content/files.html) | * [Raw Pointers](https://ict.senecacollege.ca/~oop345/pages/content/point.html) * [Smart Pointers](https://ict.senecacollege.ca/~oop345/pages/content/smart.html) | * **Quiz #6** * **Workshop #6** | * **1.875%** * **3.75%** |
| **Week 8**  **November 9 – 13** | * [Raw Pointers](https://ict.senecacollege.ca/~oop345/pages/content/point.html) * [Smart Pointers](https://ict.senecacollege.ca/~oop345/pages/content/smart.html) | * [Multi-Threading](https://ict.senecacollege.ca/~oop345/pages/content/multi.html) * [Thread Classes](https://ict.senecacollege.ca/~oop345/pages/content/threa.html) | * **Quiz #7** * **Workshop #7** | * **1.875%** * **3.75%** |
| **Week 9**  **November 16 – 20** | * [Multi-Threading](https://ict.senecacollege.ca/~oop345/pages/content/multi.html) * [Thread Classes](https://ict.senecacollege.ca/~oop345/pages/content/threa.html) | * [Pre-Processor Directives](https://ict.senecacollege.ca/~oop345/pages/content/prepr.html) * [Arrays and Pointers to Arrays](https://ict.senecacollege.ca/~oop345/pages/content/array.html) | * **Quiz #8** * **Workshop #8** | * **1.875%** * **3.75%** |
| **Week 10**  **November 23 – 27** | * [Pre-Processor Directives](https://ict.senecacollege.ca/~oop345/pages/content/prepr.html) * [Arrays and Pointers to Arrays](https://ict.senecacollege.ca/~oop345/pages/content/array.html) | * [Multiple Inheritance](https://ict.senecacollege.ca/~oop345/pages/content/mult_.html) * [Bit-Wise Expressions](https://ict.senecacollege.ca/~oop345/pages/content/bitws.html) | * **Quiz #9** * **Workshop #9** | * **1.875%** * **3.75%** |
| **Week 11**  **November 30 – December 4** | * [Multiple Inheritance](https://ict.senecacollege.ca/~oop345/pages/content/mult_.html) * [Bit-Wise Expressions](https://ict.senecacollege.ca/~oop345/pages/content/bitws.html) | * [Linked List Technology](https://ict.senecacollege.ca/~oop345/pages/content/linkl.html) | * **Quiz #10** * **Project Due** | * **1.875%** * **15%** |
| **Week 12**  **December 7 – 11** | * [Linked List Technology](https://ict.senecacollege.ca/~oop345/pages/content/linkl.html) | * Review | * **Final Test** | * **20%** |

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