

**Course Addendum**

Semester**: 2207 Fall 2020** Subject Code: **OOP244** Section**:**

Subject Title: **Introduction to Object-Oriented Programming**

Professor:Office**:**

E-mail: Ext**.**

Office Hours**:**

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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 [ict.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 | **30%** | Best 12 parts (@2.5%ea) out of 14 |
| Final Project | **20%** |  |
| Quizzes | **15%** | Best 8 (@1.875%ea) out of 10 |
| Test #1 (Midterm Test) | **20%** |  |
| Test #2 (Final Test) | **15%** |  |

# 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

The code for workshops #1 to #5 has two parts: one part with detailed instructions, and a second part with brief instructions. Workshops #6 to #9 have only one coding part with detailed instructions.

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**

**Fall 2020**

**A. Course Expectations**

The IT industry expects college and university graduates to “be able to learn on their own.”

<https://www.ctvnews.ca/sci-tech/b-c-university-aims-to-arm-aspiring-tech-workers-with-soft-skills-1.4077982>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Topic or Skill** | **Reading** | **Assessment** | **Weight** |
| **Week 1**  **September 14 – 18** | * [OOP](https://ict.senecacollege.ca/~btp200/pages/content/langu.html) * [Object Terminology](https://ict.senecacollege.ca/~btp200/pages/content/objec.html) * [Modular Programming](https://ict.senecacollege.ca/~btp200/pages/content/compi.html) | * [Types, References and Overloading](https://ict.senecacollege.ca/~btp200/pages/content/rudim.html) * Dynamic Memory |  |  |
| **Week 2**  **September 21 – 25** | * [Types, References and Overloading](https://ict.senecacollege.ca/~btp200/pages/content/rudim.html) * Dynamic Memory | * [Member Functions and Privacy](https://ict.senecacollege.ca/~btp200/pages/content/cppst.html) | * **Workshop #1** * **Quiz #1** | * **2.5% + 2.5%** * **1.875%** |
| **Week 3**  **September 28 – October 2** | * [Member Functions and Privacy](https://ict.senecacollege.ca/~btp200/pages/content/cppst.html) | * [Construction and Destruction](https://ict.senecacollege.ca/~btp200/pages/content/ctors.html) * [The Current Object](https://ict.senecacollege.ca/~btp200/pages/content/membe.html) | * **Workshop #2** * **Quiz #2** | * **2.5% + 2.5%** * **1.875%** |
| **Week 4**  **October 5 – 9** | * [Construction and Destruction](https://ict.senecacollege.ca/~btp200/pages/content/ctors.html) * [The Current Object](https://ict.senecacollege.ca/~btp200/pages/content/membe.html) | * [Member Operators](https://ict.senecacollege.ca/~btp200/pages/content/overl.html) * [Helper Functions](https://ict.senecacollege.ca/~btp200/pages/content/nonme.html) | * **Workshop #3** * **Quiz #3** | * **2.5% + 2.5%** * **1.875%** |
| **Week 5**  **October 12 – 16** | * [Member Operators](https://ict.senecacollege.ca/~btp200/pages/content/overl.html) * [Helper Functions](https://ict.senecacollege.ca/~btp200/pages/content/nonme.html) | * [Classes and Resources](https://ict.senecacollege.ca/~btp200/pages/content/deepc.html) * [Input and Output Operators](https://ict.senecacollege.ca/~btp200/pages/content/custo.html) | * **Workshop #4** * **Quiz #4** | * **2.5% + 2.5%** * **1.875%** |
| **Week 6**  **October 19 – 23** | * [Classes and Resources](https://ict.senecacollege.ca/~btp200/pages/content/deepc.html) * [Input and Output Operators](https://ict.senecacollege.ca/~btp200/pages/content/custo.html) | * [Derived Classes](https://ict.senecacollege.ca/~btp200/pages/content/inher.html) * [Functions in a Hierarchy](https://ict.senecacollege.ca/~btp200/pages/content/dfunc.html) | * **Workshop #5** * **Quiz #5** * **Midterm Test** * **Project Release** | * **2.5% + 2.5%** * **1.875%** * **20%** |
| **STUDY WEEK** | | | | | |
| **Week 7**  **November 2 – 6** | * [Derived Classes](https://ict.senecacollege.ca/~btp200/pages/content/inher.html) * [Functions in a Hierarchy](https://ict.senecacollege.ca/~btp200/pages/content/dfunc.html) | * [Abstract Base Classes](https://ict.senecacollege.ca/~btp200/pages/content/abstr.html) * [Virtual Functions](https://ict.senecacollege.ca/~btp200/pages/content/inclu.html) | * **Workshop #6** * **Quiz #6** | * **2.5%** * **1.875%** |
| **Week 8**  **November 9 – 13** | * [Abstract Base Classes](https://ict.senecacollege.ca/~btp200/pages/content/abstr.html) * [Virtual Functions](https://ict.senecacollege.ca/~btp200/pages/content/inclu.html) | * [Function Templates](https://ict.senecacollege.ca/~btp200/pages/content/param.html) * [Overview of Polymorphism](https://ict.senecacollege.ca/~btp200/pages/content/adhoc.html) | * **Workshop #7** * **Quiz #7** | * **2.5%** * **1.875%** |
| **Week 9**  **November 16 – 20** | * [Function Templates](https://ict.senecacollege.ca/~btp200/pages/content/param.html) * [Overview of Polymorphism](https://ict.senecacollege.ca/~btp200/pages/content/adhoc.html) | * [Input and Output Refinements](https://ict.senecacollege.ca/~btp200/pages/content/basic.html) | * **Workshop #8** * **Quiz #8** | * **2.5%** * **1.875%** |
| **Week 10**  **November 23 – 27** | * [Input and Output Refinements](https://ict.senecacollege.ca/~btp200/pages/content/basic.html) | * [Derived Class with a Resource](https://ict.senecacollege.ca/~btp200/pages/content/dclas.html) * [Language Standards](https://ict.senecacollege.ca/~btp200/pages/content/ansis.html) | * **Workshop #9** * **Quiz #9** | * **2.5%** * **1.875%** |
| **Week 11**  **November 30 – December 4** | * [Derived Class with a Resource](https://ict.senecacollege.ca/~btp200/pages/content/dclas.html) * [Language Standards](https://ict.senecacollege.ca/~btp200/pages/content/ansis.html) | * Review | * **Quiz #10** * **Project Due** | * **1.875%** * **20%** |
| **Week 12**  **December 7 – 11** | * Review | * Review | * **Final Test** | * **15%** |

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