

**Course Addendum**

Semester**: Winter 2021** Subject Code: **BTP200** Section**:**

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

Professor: Miguel WatlerOffice**:**

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Office Hours**: Tuesdays 11:40am-1:25pm, Thursdays 10:45am-12:30pm**

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](about:blank) 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 14 parts (@~2.15%ea) out of 16 |
| Final Project | **15%** |  |
| Quizzes | **15%** | Best 8 (@1.875%ea) out of 10 |
| Test #1 (Multipart Midterm Test) | **20%** |  |
| Test #2 (Multipart 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

The code for workshops #1 to #6 has two parts: one part with detailed instructions, and a second part with brief instructions. Workshops #7 to #10 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](about:blank)

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**TENTATIVE WEEKLY SCHEDULE**

**Winter 2021**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Topic or Skill** | **Reading** | **Assessment** | **Weight** |
| **Week 1** | * [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](https://ict.senecacollege.ca/~btp200/pages/content/dynam.html) |  |  |
| **Week 2** | * [Types, References and Overloading](about:blank) * [Dynamic Memory](about:blank) | * [Member Functions and Privacy](https://ict.senecacollege.ca/~btp200/pages/content/cppst.html) | * **Workshop #1** * **Quiz #1** | * **~2.15% + ~2.15%** * **1.875%** |
| **Week 3** | * [Member Functions and Privacy](about:blank) | * [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** | * **~2.15% + ~2.15%** * **1.875%** |
| **Week 4** | * [Construction and Destruction](about:blank) * [The Current Object](about:blank) | * [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** | * **~2.15% + ~2.15%** * **1.875%** |
| **Week 5** | * [Member Operators](about:blank) * [Helper Functions](about:blank) | * [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** | * **~2.15% + ~2.15%** * **1.875%** |
| **Week 6** | * [Classes and Resources](about:blank) * [Input and Output Operators](about:blank) | * [Input and Output Operators](https://ict.senecacollege.ca/~btp200/pages/content/custo.html) | * **Workshop #5** * **Quiz #5** | * **~2.15% + ~2.15%** * **1.875%** |
| **Week 7** | * [Input and Output Operators](about:blank) (continued) * Review | * [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 #6** * **Midterm Test** * **Project Release** | * **~2.15% + ~2.15%** * **20%** |
| **Study Week** | | | | |
| **Week 8** | * [Derived Classes](about:blank) * [Functions in a Hierarchy](about:blank) | * [Virtual Functions](https://ict.senecacollege.ca/~btp200/pages/content/inclu.html) * [Abstract Base Classes](https://ict.senecacollege.ca/~btp200/pages/content/abstr.html) | * **Quiz #6** | * **1.875%** |
| **Week 9** | * [Virtual Functions](about:blank) * [Abstract Base Classes](about:blank) | * [Function Templates](https://ict.senecacollege.ca/~btp200/pages/content/param.html) * [Input and Output Refinements](https://ict.senecacollege.ca/~btp200/pages/content/basic.html) | * **Workshop #7** * **Quiz #7** | * **~2.15%** * **1.875%** |
| **Week 10** | * [Function Templates](about:blank) * [Input and Output Refinements](about:blank) | * [Derived Class with a Resource](https://ict.senecacollege.ca/~btp200/pages/content/dclas.html) | * **Workshop #8** * **Quiz #8** | * **~2.15%** * **1.875%** |
| **Week 11** | * [Derived Class with a Resource](about:blank) | * [Overview of Polymorphism](https://ict.senecacollege.ca/~btp200/pages/content/adhoc.html) | * **Workshop #9** * **Quiz #9** | * **~2.15%** * **1.875%** |
| **Week 12** | * [Overview of Polymorphism](about:blank) | * [Language Standards](https://ict.senecacollege.ca/~btp200/pages/content/ansis.html) | * **Workshop #10** * **Quiz #10** * **Project Due** | * **~2.15%** * **1.875%** * **15%** |
| **Week 13** | * [Language Standards](about:blank) | * Review |  |  |
| **Week 14** | * Review | * Review | * **Final Test** | * **20%** |

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