

Course Addendum

Semester: **Winter 2022** Subject Code: **BDP100**
Subject Title: **Introduction to Programming**

Section:

Professor: **Salam Ismaeel**
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Office Hours: **TBA, and by appointment**

Office: **Online**
Ext. **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 for key information on courses, graduation requirements, transfer credit, and more from the School of Software Design and Data Science.

Assessment Summary

Workshops (min. 10)	30%
Quizzes (min. 8):	20%
Project (Part1&2)	20%
Midterm Exam	15%
Final Exam	15%

Course Policies

- Late or missed evaluations will receive a mark of zero. Alternate arrangements will only be made in the case of significant, documented extenuating circumstances.
- Readings should be completed before class.
- Students are responsible for both materials covered in class and material in the assigned readings.

Academic Policies:

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

TENTATIVE WEEKLY SCHEDULE

Semester Year: Fall 2021

Course Expectations

Readings come from:

- **Textbook:** Kenneth A. Lambert, *Fundamentals of Python: First Programs*, 2nd Edition, Course Technology, Cengage Learning, 2018.
- **Other sources as provided.**

Note. All Sessions will be on Wednesday from 8:00 AM – 10:40 AM

Week	Dates	Topics	Reading	Assessments	Weight
Week 01	12-Jan	Introduction to Programming	Instructor's Notes	None	None
Week 02	19-Jan	Variables and Functions	Instructor's Notes	Workshops 01	3%
Week 03	26-Jan	- Algorithms, Computational thinking - Comparison and Logical Operators	Chapter 1: Introduction	Workshops 02 Quiz 01	3% 2.5%
Week 04	4-Feb	- Structured Programming, Algorithms, Flowcharts - Strings, Indexing, and Slicing	Chapter 2: Data Types and Expressions	Workshops 03 Quiz 02	3% 2.5%
Week 05	11-Feb	- If statements - For-Loops	Chapter 3: Loops and Selection Statements	Workshops 04 Quiz 03	3% 2.5%
Week 06	18-Feb	- Collections (Arrays)-List - Nested lists and Matrices	Chapter 4: Strings and Text Files	Workshops 05 Quiz 04	3% 2.5%
Week 07	25-Feb	- Set and Dictionary	Chapter 5: Lists and Dictionaries	Workshops 06 Quiz 05	3% 2.5%
	2-Mar	Study Week			
Week 08	9-Mar			Midterm	15%
Week 09	16-Mar	Top-Down design, Functions Recursive, and Namespaces	Chapter 6: Design with Functions	Workshops 07 Project start	3% ----
Week 10	23-Mar	Functional Programming, Jupyter Notebooks, and Simple Graphics	Chapter 7: Graphics and Image Processing	Workshops 08 Quiz 06	3% 2.5%
Week 11	30-Mar	Files, Input, and Output	Instructor's Notes	Workshops 09 Quiz 07	3% 2.5%
Week 12	6-Apr	Python Library: Numpy and Pandas	Instructor's Notes	Workshops 10 Quiz 08 Project due (MC1)	3% 2.5% 16%
Week 13	13-Apr	(Project) Presentations		Project due (MC2)	4%
Week 14	20-Apr	Final Exam		Final Exam	15%