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CMPT 1510: Introduction to Python Programming

EFFECTIVE DATE

September 2019

DEPARTMENT

Computers - City Centre

DESCRIPTION

Learn how to program in Python, a powerful, fast, friendly, and open-source programming language. This basic programming course is ideal for those who want to learn how to program or those who are already a programmer in another language and want to learn Python. Specific topics include data types, functions, strings & lists, dictionaries and regular expressions. At the end of each class, a homework exercise may be assigned by the instructor.

CREDITS

0.0

YEAR OF STUDY

General Interest

PREREQUISITES

Basic knowledge of Windows, and basic math (recommended)

COREQUISITES

None

COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Place Python in the context of other programming languages and understand why Python has become such an important language.
- Know Python data types and how and when to use each.
- Employ all the control flow constructs: "if", "while", and "for" statements.
- Debug Python source code.
- Use lists and recognize when it is required.
- Use Python dictionaries and know when to prefer a dictionary over a list.
- Write effective Python functions.

- Manipulate files using Python.
- Compose the most frequently needed regular expressions.
- Import and then exploit external packages into their Python source code.

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 0

Lab: 18

Other: 0

INSTRUCTIONAL STRATEGIES

GRADING SYSTEM

Satisfactory/Unsatisfactory

PASSING GRADE

based on minimum 80% attendance

EVALUATION PLAN

None

COURSE TOPICS

- Python History & Technical context
 - Variables
 - Input / Output
 - len(),str(),int(),float()
 - First Python program
 - Flow Control
 - Functions
 - Variable scope
 - Strings and Lists
 - Dictionaries
 - Regular Expressions
 - Reading Writing Files

LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

Broadway campus

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Downtown campus

250 West Pender Street
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