

# Alexandria Technical and Community College

## CVNP 2646: Python/JSON

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 3

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is designed to provide an introduction to the functions around creation and implementation of the Python scripting language. The learner will be able to evaluate varying data types, Input/Output systems, values, modules, strings, objects, and structures that support utilizing Python successfully. This course is intended for students looking to better understand how to utilize Python in all environments.

**B. COURSE EFFECTIVE DATES:** 10/07/2020 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. The learner will exhibit an understanding of Python's coding language foundation structure.
2. Deploy Python in Windows/Linux environments.
3. Understand and use debugging tools to troubleshoot errors efficiently.
4. Understand varying data types.
5. Using basic methods to input/output data effectively.
6. Understand operators/variables and their functions in Python.
7. Demonstrate a knowledge of various flow control/looping functions.
8. Employ arrays/lists to accurately input and recall data.
9. Deploy modules/packages/strings effectively
10. Understand an entry level knowledge of JavaScript Object Notation.
11. Demonstrate a working knowledge of the Python foundation structure/File system.

### D. LEARNING OUTCOMES (General)

1. The learner will exhibit an understanding of Python's coding language foundation structure.
2. The learner will exhibit an understanding of Python's Input/output methods used to handle information.
3. The learner will exhibit an understanding of Python's flow control/looping Features.
4. The learner will exhibit an understanding of Python's integration with JSON control.

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted