

# North Hennepin Community College

## CSCI 2011: Programming in Python

### A. COURSE DESCRIPTION

Credits: 1

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites:

This course requires any of these five prerequisites

CSCI 1120 - Programming in C/C++

CSCI 1130 - Introduction to Programming in Java (CS0) (Minimum grade: 1.67 GPA Equivalent)

CSCI 2001 - Object Oriented Programming (CS1)

CSCI 1150 - Programming in C# for .NET (Minimum grade: 1.67 GPA Equivalent)

CSCI 2400 - Objective-C for Mobile Programming (Minimum grade: 3.0 GPA Equivalent)

Corequisites: None

MnTC Goals: None

The course will introduce the Python Programming language in terms familiar to students experienced with writing simple, yet complete, programs in other languages. Additionally, the course will focus on utilities and features considered strengths in Python. This includes interfaces to specialized libraries and databases.

Prerequisites: CSCI 1120 or CSCI 1130 or CSCI 1150 or CSCI 2001 or CSCI 2400

**B. COURSE EFFECTIVE DATES:** 01/12/2015 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Assignment statements; loops; conditions, type emulation; File objects and I/O; Functions and scope; Exception handling; Classes and object-oriented programming; Network programming; Libraries and module applications; Software development.

### D. LEARNING OUTCOMES (General)

1. Code basic stand-alone programs utilizing various libraries. (NHCC ELOs 1, 2)
2. Apply software development practices in the scope of the course requirements and projects. (NHCC ELOs 1, 2)

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

1. Knowledge of Human Cultures and the Physical and Natural World; Through study in the sciences, mathematics, social sciences, humanities, histories, languages, the arts, technology and professions.
2. Intellectual and Practical Skills; Including: Inquiry and analysis; Critical and creative thinking; Written and oral communication; Quantitative literacy; Information literacy; Teamwork and problem solving.