Introduction to Programming in Python provides the fundamentals of the Python language and its features to control program flow and to manipulate data sets. This course teaches how to develop Python scripts that extract and manipulate data from unstructured data sources. Python libraries including acquisition and configuration are also covered. Scripting and Programming Foundations and Web Development Foundations are prerequisites to this course.

Competencies

- **Python Programming Elements and Syntax**
  The graduate integrates Python elements including data types, constants, variables, operators, and expressions to create programming solutions.

- **Functions and Control Structures in Python**
  The graduate constructs functions and control structures to interact with data structures and direct program flow.

- **Libraries and the Python Environment**
  The graduate writes code in the Python environment, incorporating libraries to support data analytics tasks including data collection, manipulation, and storage.

Learning

**Getting Started**

Welcome to Introduction to Programming in Python! This course builds on your foundational scripting and programming skills by applying these skills within the Python language and syntax. The course is provided by Udacity. Follow along carefully with the videos and readings, and complete each exercise as you come to it in order to ensure you are mastering Python competency. After you complete the Udacity course, take the pre-assessment to check your readiness. Your competency will be demonstrated through a hybrid assessment in which you will be writing code that will be executed then scored electronically.

Assessments

- **Pre-Assessment - Introduction to Programming in Python (CFO1)**
Objective Assessment: Introduction to Programming in Python

STATUS: Not Attempted
# OF ITEMS: 18
TIME ALLOTTED: 120 minutes
CODE: CFO1

A score of Competent or Exemplary is required to pass all assessments. Passing a preassessment does not guarantee you will pass the high stakes assessment.

On objective assessments, you will be charged a retake fee for the third attempt and every attempt thereafter. For more information click here.

Course Information

- Pacing Guide
- Optional SoloLearn resource
- Coaching Report

Course Instructor Group

cmweb@wgu.edu