



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Python Development
Course Number: CSE235

Required Materials

Textbook(s): None
Required Readings: None
Additional Materials: Access to **Visual Studio 2022** running on a computer with a Windows 10 or 11 operating system. Access to the Internet. Browser that meets the requirements of Brightspace. Chrome, Edge, or Firefox

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

16-Week Calendar

| Week | Chapter/Topic/Lab |
|---------|--|
| Week 1 | Lab 1 Installing and Introduction to Python |
| Week 2 | Lab 2 Input, Processing and Output Lab |
| Week 3 | Lab 3 Decision Structures - Change for a Dollar Game |
| Week 4 | Lab 4 Repetition Lab |
| Week 5 | Lab 5 Functions - Calorie Calculation |
| Week 6 | Lab 6 Files and Exceptions - Random Number Writer, Reader, and Exception Handler with File Selection |
| Week 7 | Lab 7 Population Data Explorer with tkinter |
| Week 8 | Lab 8 Vowels, Consonants and Most Frequent Character |
| Week 9 | Lab 9 Email Address Book with Python using tkinter |
| Week 10 | Lab 10 Car Simulator with GUI |
| Week 11 | Lab 11 Inheritance - Employee and SoftwareDeveloper Classes |
| Week 12 | Lab 12 – Database Lab |
| Week 13 | Lab 13 Numpy Lab Instructions |
| Week 14 | Lab 14 Stock Chart Lab |
| Week 15 | Work on Final Project |
| Week 16 | Final |

8-Week Calendar

| Date/Week | Assignments |
|-----------|--|
| Week 1 | Lab 1 Installing and Introduction to Python Lab 2 Input, Processing and Output Lab |
| Week 2 | Lab 3 Decision Structures - Change for a Dollar Game Lab 4 Repetition Lab |
| Week 3 | Lab 5 Functions - Calorie Calculation Lab 6 Files and Exceptions - Random Number Writer, Reader, and Exception Handler with File Selectio |
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| Week 6 | Lab 12 – Database Lab Lab 13 Numpy Lab Instructions |
| Week 7 | Lab 14 Stock Chart Lab Work on Final Project |
| Week 8 | Final |