Course Title: Beginning Programming: Python
Course Code: CS 05
Instructor: Michael McKenna

Grade Options:
No Grade Requested (NGR):
This is the default option. No work will be required; no credit shall be received; no proof of attendance can be provided.

Credit/No Credit (CR/NC)
Students must attend at least 80% of class sessions (5/6 sessions) and complete weekly at home assignments. Homework is designed to take between 2 and 4 hours outside of class each week.

Letter Grade (A, B, C, D, No Pass)
Students must attend at least 80% of class sessions (5/6 sessions), complete weekly at home assignments, and will be graded most heavily on final assignment, to be discussed in class. Homework is designed to take between 2 and 4 hours outside of class each week.

Please Note: If you require proof that you completed a Continuing Studies course for any reason (for example, employer reimbursement), you must choose either the Letter Grade or Credit/No Credit option. Courses taken for NGR will not appear on official transcripts or grade reports.

Tentative Weekly Outline:
Lecture 1 - Introduction to Programming / Python, Variables, Data Types, and If/else
In class work: First programs: Hello World, What’s my name?, and Area
At home work: Manipulating variables based on raw inputs
Lecture 2 - Iteration, loops, dictionaries, and lists
In class work: Data Logging, Fitness Tracking
At home work: Party Guests
Lecture 3 - Defining Functions, inputs/outputs
In class work: Making Party Guests Better, Read from CSV
At home work: Fitness Data Analysis
Lecture 4 - Advanced Libraries, Error Handling
In class work: Stock Analysis
At home work: Big Data Trends
Lecture 5 - Introduction to APIs
In class work: Smart Home API, assign final projects
At Home work: Begin Final Projects
Lecture 6 - Recap and Sneak Peek into Next Steps
In class work: Review Material, Final Projects
At home work: Final Projects

Please contact the Stanford Continuing Studies office with any questions
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