

Programming Essentials in Python Course Overview

Python is a general-purpose programming language used to build just about anything. Python is key for backend web development, data analysis, artificial intelligence and scientific computing, all of which are key for pursuing IT careers.

With PCAP: Programming Essentials in Python you learn to design, write, debug, and run programs encoded in the Python language. No prior programming knowledge is required. The course begins with the very basics guiding you step by step until you become adept at solving more complex problems.

By the end of the course, students will be able to:

- Develop a working knowledge for how computers operate and how computer programs are executed.
- Evolve critical thinking and problem-solving skills using an algorithmic approach.
- Learn about the the programmer's role in the software development process.
- Translate real-world issues into computer-solvable problems.

The self-paced course includes hands-on practice activities and over 35 lab exercises to reinforce learning, quizzes and chapter assessments, and pre-final and final tests to measure understanding.

The course is also available as an online self-paced course accessed from the netacad.com catalog course page.