COURSE SYLLABUS

Computer Science Course (Self-Paced with Mentoring)

Group classes (Live Online) and onsite training are available for this course. For more information, email corporate@nobledesktop.com or visit: https://www.nobledesktop.com/certificates/computer-science-online



hello@nobledesktop.com • (212) 226-4149

Course Outline

This package includes these courses

- Java Programming Bootcamp (Self-Paced High School & College) (45 Hours)
- Python Data Science & AI Machine Learning (Self-Paced High School & College) (45 Hours)

Java Programming Bootcamp (Self-Paced High School & College)

Learn the fundamentals of Java programming and prepare for AP Computer Science or college-level programming. Beginners will become skilled coders through our project-based curriculum.

- Write and use industry-standard algorithms
- Write your own program in both the object-oriented and procedural paradigms
- Read and understand large programs
- Understand how to think like a programmer
- Write your own functions

Python Data Science & AI Machine Learning (Self-Paced High School & College)

- Master Python fundamentals like data types, conditionals, loops, and functions.
- Clean and manipulate real-world data using pandas and NumPy.
- Process files, utilize string methods, and handle structured data.
- Create custom charts, histograms, and plots with Matplotlib.
- Apply machine learning techniques such as linear regression, classification, and K-nearest neighbors.
- Complete a capstone project to showcase your ability to analyze and present data insights.