COURSE SYLLABUS

Computer Science Certificate Live Online (High School & College)

In this live online summer certificate, high school students will master the fundamentals of programming in both Java and Python. Students will get a head start on the AP Computer Science Exam as well as learn the fundamentals of data science and machine learning.

> 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-summer-certificate



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Course Outline

This package includes these courses

- Java Programming Summer Program Live Online (High School & College) (45 Hours)
- Python Data Science & Machine Learning Live Online (High School & College) (45 Hours)

Java Programming Summer Program Live Online (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 & Machine Learning Live Online (High School & College)

Learn the most powerful and versatile programming language this summer. In this live online course, high school students will learn Python for data science and machine learning.

- Programming fundamentals in Python
- How to write conditional statements in Python
- Input data using the pandas package
- Clean and wrangle data
- Visualize and understand complex data

- Use machine learning algorithms