

COURSE DETAIL

COMPUTATIONAL STRUCTURES IN DATA SCIENCE

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Data Science and Python in Madrid, Data Science in Madrid

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

15

UCEAP Course Suffix**UCEAP Official Title**

COMPUTATIONAL STRUCTURES IN DATA SCIENCE

UCEAP Transcript Title

CP STRUCTR/DATA SCI

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course provides a rigorous introduction to programming, abstraction, and the structure of programs. It is designed for students who wish to deepen their understanding of computer science concepts in the context of data science. The primary programming language used is Python; however, the course emphasizes foundational programming ideas, not just language-specific syntax.

It is recommended, but not strictly required, that students have taken a Foundations of Data Science course. There is no formal programming-related prerequisite for this course; students do not need to be familiar with any particular programming language before starting the course.

Language(s) of Instruction

English

Host Institution Course Number

Host Institution Course Title

COMPUTATIONAL STRUCTURES IN DATA SCIENCE

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Carlos III International School

Host Institution Degree

Host Institution Department

Course Last Reviewed

2026-2027

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