COURSE DETAIL

FOUNDATION OF DATA SCIENCE

Country
China

Host Institution
Fudan University

Program(s)
Shanghai Summer

UCEAP Course Level
Lower Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
17

UCEAP Course Suffix
S

UCEAP Official Title
FOUNDATION OF DATA SCIENCE

UCEAP Transcript Title
DATA SCIENCE

UCEAP Quarter Units
4.00

UCEAP Semester Units

2.70

Course Description

This course provides a comprehensive introduction to modern data science with a strong emphasis on the mathematical and algorithmic foundations of machine learning. Students will develop practical Python programming skills for data analysis while gaining rigorous understanding of the mathematical principles that underpin modern machine learning. The course adopts a "learn by doing" approach: every mathematical concept is immediately applied to real-world datasets and problems.

Language(s) of Instruction
English

Host Institution Course Number
ECON170017,GEIS30010

Host Institution Course Title
FOUNDATION OF DATA SCIENCE

Host Institution Course Details
https://iss.fudan.edu.cn/FoundationofDataScience.pdf

Host Institution Campus
International Summer School

Host Institution Faculty

Host Institution Degree

Host Institution Department
Science & Technology

Course Last Reviewed
2026-2027

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