

COURSE DETAIL

DATA PROCESSING SYSTEMS

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

173

UCEAP Course Suffix**UCEAP Official Title**

DATA PROCESSING SYSTEMS

UCEAP Transcript Title

DATA PROCESS SYSTEM

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

In this course, students advance their knowledge of data-structures and algorithms to data-processing algorithms and applications. They acquire theoretical and practical knowledge of data processing systems design and implementation for correct results and (close-to) optimal performance. Students learn how Database Management Systems (DBMSs) optimize query performance, and understand Data Processing System tuning. Finally, students explore challenges and opportunities of cloud-native Data Processing Systems, as well as the research directions such as Big Data or data management on modern hardware.

Language(s) of Instruction

English

Host Institution Course Number

COMP60029

Host Institution Course Title

DATA PROCESSING SYSTEMS

Host Institution Course Details

<https://www.imperial.ac.uk/computing/current-students/courses/60029/>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computing

Course Last Reviewed

2024-2025

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