

# 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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