

# COURSE DETAIL

## DISTRIBUTED SYSTEMS

**Country**

Ireland

**Host Institution**

University College Dublin

**Program(s)**

University College Dublin

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

145

**UCEAP Course Suffix****UCEAP Official Title**

DISTRIBUTED SYSTEMS

**UCEAP Transcript Title**

DISTRIBUTED SYSTEMS

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## **Course Description**

Distribution is a key technology for constructing systems that can scale to meet high demand (such as web applications) or which are required to operate over large geographical areas (such as sensor networks). Understanding how to do this effectively is an important challenge in computer science, especially given the continued emergence of systems that are required to handle millions of concurrent users where fluctuations in demand require the addition or removal of hundreds of servers at any point in time. This course explores this space from a practical perspective. Students learn about and use a range of distribution techniques. They explore the state-of-the-art and key theoretical issues by reviewing academic articles on some of the most successful solutions and presenting their findings to their peers. A final project allows the students to apply these techniques through the development of a significant application.

## **Language(s) of Instruction**

English

## **Host Institution Course Number**

COMP30220

## **Host Institution Course Title**

DISTRIBUTED SYSTEMS

## **Host Institution Course Details**

[https://sisweb.ucd.ie/usis/!W\\_HU\\_MENU.P\\_PUBLISH?p\\_tag=MODULE&MODULE=COMP30220](https://sisweb.ucd.ie/usis/!W_HU_MENU.P_PUBLISH?p_tag=MODULE&MODULE=COMP30220)

## **Host Institution Campus**

## **Host Institution Faculty**

School of Computer Science

## **Host Institution Degree**

## **Host Institution Department**

## **Course Last Reviewed**

2023-2024

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