

## COURSE DETAIL

### DATA MINING

**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**

118

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

DATA MINING

**UCEAP Transcript Title**

DATA MINING

**UCEAP Quarter Units**

4.00

**UCEAP Semester Units**

2.70

## Course Description

This course presents important concepts of data mining and how these concepts are implemented and used in real-world applications. The course integrates the theory and practice of data mining with many references to real-world problems and cases to illustrate the concepts and the implementation issues throughout the lectures. The first chapter is devoted to a brief introduction to background information needed to understand the material. This is followed by data warehouse topics and how they differ from database concepts. The notion of data mining process is explained and how it relates to the complete KDD process, as it is very important to understand that data mining is not an isolated subject. The course reviews techniques used to implement data mining algorithms. The course then explores some core topics of data mining: classification, clustering, and association rules. Other concepts, such as prediction, regression, and pattern matching, are also covered, but viewed as special cases of the three core topics.

## Language(s) of Instruction

English

## Host Institution Course Number

COMP40370

## Host Institution Course Title

DATA MINING

## Host Institution Course Details

[https://sisweb.ucd.ie/usis/!W\\_HU\\_MENU.P\\_PUBLISH?p\\_tag=MODULE&MODULE=COMP40370](https://sisweb.ucd.ie/usis/!W_HU_MENU.P_PUBLISH?p_tag=MODULE&MODULE=COMP40370)

## Host Institution Campus

UC Dublin

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Computer Science

**Course Last Reviewed**

2019-2020

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