

# COURSE DETAIL

## EXTREME COMPUTING

**Country**

United Kingdom - Scotland

**Host Institution**

University of Edinburgh

**Program(s)**

Scottish Universities, University of Edinburgh

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

136

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

EXTREME COMPUTING

**UCEAP Transcript Title**

EXTREME COMPUTING

**UCEAP Quarter Units**

4.00

**UCEAP Semester Units**

2.70

## Course Description

Extreme Computing deals with the principles, systems, and algorithms behind web-scale problem solving. This touches upon the technologies and techniques used by companies such as Google, Facebook, and Microsoft, using warehouse-scale computing and massive datasets. The course is made up of three parts: the principles behind extreme computing (cloud computing, scaling, performance, privacy, etc.); supporting infrastructure (distributed file systems, replication, web services); and algorithms (MapReduce, case studies from Natural Language Processing, database query evaluation, machine learning, streaming).

## Language(s) of Instruction

English

## Host Institution Course Number

INFR11088

## Host Institution Course Title

EXTREME COMPUTING

## Host Institution Campus

Edinburgh

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Informatics

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