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 Course Details

Host Institution Campus
Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department
Informatics

Course Last Reviewed

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