

# COURSE DETAIL

## HIGH PERFORMANCE COMPUTING

**Country**

Iceland

**Host Institution**

University of Iceland

**Program(s)**

University of Iceland

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

132

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

HIGH PERFORMANCE COMPUTING

**UCEAP Transcript Title**

HIGH PERFORMMNC COMP

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

Main topics include the design of parallel computers and parallel programming models; shared memory architecture; message passing and distributed memory architecture; parallel programming of computer clusters using MPI and multicore programming using OpenMP; parallel algorithms for sorting, searching, linear algebra, and various graph problems.

## Language(s) of Instruction

English

## Host Institution Course Number

REI204M

## Host Institution Course Title

HIGH PERFORMANCE COMPUTING

## Host Institution Campus

## Host Institution Faculty

Engineering and Natural Sciences

## Host Institution Degree

## Host Institution Department

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