

## COURSE DETAIL

### SCIENTIFIC COMPUTING

**Country**

Germany

**Host Institution**

Technical University Berlin

**Program(s)**

Technical University Berlin

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

122

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

SCIENTIFIC COMPUTING

**UCEAP Transcript Title**

SCIENTIFIC COMPUTNG

**UCEAP Quarter Units**

5.50

**UCEAP Semester Units**

3.70

## Course Description

This course on scientific computing covers the following topics: numerical methods focusing on partial differential equations (finite elements, finite volumes, mesh generation, linear and nonlinear solvers, iterative methods), their implementation and programming, computer languages (mainly C++, with introduction; python), parallelization, visualization, and software tools.

## Language(s) of Instruction

English

## Host Institution Course Number

3236 L 216

## Host Institution Course Title

WISSENSCHAFTLICHES RECHNEN (SCIENTIFIC COMPUTING)

## Host Institution Campus

FAKULTÄT II MATHEMATIK UND NATURWISSENSCHAFTEN

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Mathematik

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