

# COURSE DETAIL

## PROGRAMMING LANGUAGE DESIGN

**Country**

Denmark

**Host Institution**

University of Copenhagen

**Program(s)**

University of Copenhagen

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

110

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

PROGRAMMING LANGUAGE DESIGN

**UCEAP Transcript Title**

PROGRAM LANG DESIGN

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

The course explores the design space of programming languages and how the design choices affect implementation and other properties of the language. A brief history of programming languages is presented and a selected set of features are explored with respect to design choices, how they interact, and how they can be implemented. The course gives the student an understanding of the programming-language landscape that is helpful when the student designs and implements programming languages. The following topics are covered: implementation strategies, syntax, memory management, scope rules, control structures, types, language paradigms, modules, semantics, domain-specific languages, and computational power of languages.

## Language(s) of Instruction

English

## Host Institution Course Number

NDAB16008U

## Host Institution Course Title

PROGRAMMING LANGUAGE DESIGN

## Host Institution Campus

Science

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Computer Science

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