

COURSE DETAIL

COMPILER AND FORMAL LANGUAGES

Country

United Kingdom - England

Host Institution

King's College London

Program(s)

King's College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

130

UCEAP Course Suffix**UCEAP Official Title**

COMPILER AND FORMAL LANGUAGES

UCEAP Transcript Title

COMPILER&FORML LANG

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course explains the techniques behind compilers, lexers and parsers. It looks into mathematical formalisms of regular expressions, context-free grammars, and shows their applications to computer languages and illustrates low level machine languages and compiler techniques. Students learn how to use regular expressions to scrape information from the web, how to design grammars for parsing languages and how to implement a small interpreter and compiler. Students will be able to implement the central components of a small compiler. Students will also know the theory behind lexing and parsing so that they can choose an appropriate algorithm for recognising a computer language.

Language(s) of Instruction

English

Host Institution Course Number

6CCS3CFL

Host Institution Course Title

COMPILER AND FORMAL LANGUAGES

Host Institution Campus

King's College London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Department of Informatics

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