# 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 canchoose 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 Course Details**
https://www.kcl.ac.uk/abroad/module-options/module?id=693c891b-21d4-45e8-b29c-e...

**Host Institution Campus**
King's College London

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**
Department of Informatics

**Course Last Reviewed**
2021-2022