

COURSE DETAIL

COMPUTATIONAL BIOLOGY

Country

United Kingdom - England

Host Institution

University College London

Program(s)

University College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Statistics Computer Science

UCEAP Course Number

145

UCEAP Course Suffix**UCEAP Official Title**

COMPUTATIONAL BIOLOGY

UCEAP Transcript Title

COMPUTATIONAL BIO

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces students to advanced statistics, applied to the biological sciences. It introduces more advanced linear and generalized linear models, as well as approaches to model building and comparison. It also covers applications of linear models to large-scale genomic data, programming, permutation-based tests, power analysis and multivariate statistics. In addition to providing the theoretical background of the approaches covered, the course puts much emphasis on practical implementation. Lectures are accompanied by weekly practical sessions in which students will work through analyses in the statistical software R, the standard in much of biological computing.

Language(s) of Instruction

English

Host Institution Course Number

BIOL0029

Host Institution Course Title

COMPUTATIONAL BIOLOGY

Host Institution Campus

University College London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biosciences

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