COURSE DETAIL

ADVANCED 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) Biological Sciences
UCEAP Course Number 176
UCEAP Course Suffix
UCEAP Official Title ADVANCED COMPUTATIONAL BIOLOGY
UCEAP Transcript Title ADV COMPUTATNAL BIO
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

The course provides an introduction to statistical and computational methods of analyzing and interpreting genetics/genomics data. Emphasis is placed on statistical model application and interpretation. Students learn how to implement various statistical methods, analyze and visualize genetic data through programming in R and command line tools. The emphasis is on students doing analyses in class, and on the interpretation of the results. Programming forms a major part of this course. Students learn how to write their own scripts to perform advanced statistical analyses of genetic data. This is an advanced, fast-paced course with extensive programming assignments. We strongly advise students with no previous programming experience to undertake the R crash course. A short introduction to R at the start of the module will be given. If enrolling on the module with no previous programming knowledge, please be aware that programming skills can only be obtained through many hours of practice. Good performance in the course is dependent upon additional private study to further develop programming skills.

Language(s) of Instruction
English

Host Institution Course Number
BIOL0050

Host Institution Course Title
ADVANCED COMPUTATIONAL BIOLOGY

Host Institution Course Details
https://www.ucl.ac.uk/module-catalogue/modules/advanced-computational-biology-B…

Host Institution Campus
University College London

Host Institution Faculty

Host Institution Degree
Host Institution Department Biosciences
Course Last Reviewed 2022-2023

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