COURSE DETAIL

BIOINFORMATICS
Country United Kingdom - England
Host Institution University of London, Royal Holloway
Program(s) University of London, Royal Holloway
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 112
UCEAP Course Suffix
UCEAP Official Title BIOINFORMATICS
UCEAP Transcript Title BIOINFORMATICS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course explores the main approaches currently in use in bioinformatics, with special emphasis on the analysis of DNA and protein sequences emerging from genome sequencing projects and genome-wide experimental assays. Topics include basic molecular biology: exploration into the basic components of living cells, their functions, and interactions, as well as other concepts essential to understanding the use of computers in biology, sequence alignments, substitution matrices, phylogenetic trees, dynamic programming, systems biology, gene expression analysis, protein-protein interaction analysis, biological networks, and clustering.

Language(s) of Instruction
English

Host Institution Course Number
CS3110

Host Institution Course Title
BIOINFORMATICS

Host Institution Course Details
https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/u...

Host Institution Campus
Royal Holloway, University of London

Host Institution Faculty

Host Institution Degree

Host Institution Department
Computer Science

Course Last Reviewed
2018-2019

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