COURSE DETAIL

BIOINFORMATICS

Country
Hong Kong

Host Institution
University of Hong Kong

Program(s)
University of Hong Kong

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
153

UCEAP Course Suffix

UCEAP Official Title
BIOINFORMATICS

UCEAP Transcript Title
BIOINFORMATICS

UCEAP Quarter Units
5.00

UCEAP Semester Units
3.30

Course Description

This course provides a grounding in basic bioinformatics algorithms, tools, and databases. The course also provides hands-on bioinformatics analysis experience and the ability to conduct independent bioinformatics analyses. Topics: algorithms, especially those for sequence alignment and assembly, which comprise the foundation of the rapid development of bioinformatics and DNA sequencing; leading bioinformatics tools for comparing and analyzing genomes starting from raw sequencing data; the functions and organization of a few essential bioinformatics databases and how they support various types of bioinformatics analysis.

Language(s) of Instruction

English

Host Institution Course Number

COMP3353

Host Institution Course Title

BIOINFORMATICS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computer Science

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