

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 Course Details**Host Institution Campus****Host Institution Faculty****Host Institution Degree****Host Institution Department**

Computer Science

Course Last Reviewed

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