

COURSE DETAIL

BIOINFORMATICS 1

Country

United Kingdom - Scotland

Host Institution

University of Edinburgh

Program(s)

University of Edinburgh

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science Biological Sciences

UCEAP Course Number

164

UCEAP Course Suffix**UCEAP Official Title**

BIOINFORMATICS 1

UCEAP Transcript Title

BIOINFORMATICS 1

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course introduces the discipline of Bioinformatics to students from both physical science and life science backgrounds. It introduces key biological concepts including the main types of molecules (DNA, RNA, and protein) as well as the cell biological processes involved in their regulation and function in biological systems. Students learn to work with and analyze biological sequences through biological sequence databases, process automation, algorithms, and tools to allow pairwise and multiple sequence alignment, as well as approaches using high-throughput next-generation sequence data.

Language(s) of Instruction

English

Host Institution Course Number

INFR11160

Host Institution Course Title

BIOINFORMATICS 1

Host Institution Course Details

<http://www.drps.ed.ac.uk/21-22/dpt/cxinfr11160.htm>

Host Institution Campus

Host Institution Faculty

School of Informatics

Host Institution Degree

Host Institution Department

Course Last Reviewed

2021-2022

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