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 Campus

Host Institution Faculty
School of Informatics

Host Institution Degree

Host Institution Department

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