

COURSE DETAIL

PROGRAMMING FOR BIOMEDICAL INFORMATICS

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

UCEAP Course Number

179

UCEAP Course Suffix**UCEAP Official Title**

PROGRAMMING FOR BIOMEDICAL INFORMATICS

UCEAP Transcript Title

PROGRAMMING/BIOMED

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

In this course, students learn how to use Python to retrieve and parse data from biological repositories through bulk download and application programming interfaces (APIs). They learn about established data formats for different data modalities so that they understand the structure and content of the data they are using and how it was generated. Each week students focus on analytical tasks in linked topics that span the main components of modern biomedical informatics research. Topics change slightly each year, but typically include tools, algorithms, and approaches for biological sequence, multi-omics (transcriptomics, proteomics, methylomics), biomedical network, and biomedical text analysis. Each topic is explored using real-world examples.

Language(s) of Instruction

English

Host Institution Course Number

INFR11260

Host Institution Course Title

PROGRAMMING FOR BIOMEDICAL INFORMATICS

Host Institution Course Details

<http://www.drps.ed.ac.uk/25-26/dpt/cxinfr11260.htm>

Host Institution Campus

Host Institution Faculty

School of Informatics

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

[Print](#)