

COURSE DETAIL

FUNDAMENTALS OF BIOINFORMATICS

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science Bioengineering

UCEAP Course Number

128

UCEAP Course Suffix**UCEAP Official Title**

FUNDAMENTALS OF BIOINFORMATICS

UCEAP Transcript Title

INTRO BIOINFORMATCS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course offers an introduction to data science for genomic data. It discusses basic algorithms for genome sequencing, compares DNA sequences or proteins, and analyzes databases with the genomic profiles of different patients for the extraction of information. Other topics include: computational methods for analyzing and performing DNA data sequencing; advanced statistical methods for the analysis of genomic data; statistical tests for the extraction of conclusions.

Language(s) of Instruction

English

Host Institution Course Number

16807

Host Institution Course Title

FUNDAMENTOS DE BIOINFORMÁTICA

Host Institution Course Details

<https://aplicaciones.uc3m.es/cpa/generaFicha?est=350&anio=2023&plan=392&asig=16...>

Host Institution Campus

Leganés

Host Institution Faculty

Escuela Politécnica Superior

Host Institution Degree

Ciencia e Ingeniería de Datos

Host Institution Department

Teoría de la Señal y Comunicaciones

Course Last Reviewed

2023-2024

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