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
FUNDAMENTALS OF BIOINFORMATICS

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

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