

COURSE DETAIL

EMERGING TOOLS IN BIOTECHNOLOGY

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)

Bioengineering

UCEAP Course Number

115

UCEAP Course Suffix**UCEAP Official Title**

EMERGING TOOLS IN BIOTECHNOLOGY

UCEAP Transcript Title

TOOLS IN BIOTECH

UCEAP Quarter Units

2.50

UCEAP Semester Units

1.70

Course Description

This course discusses the function and role of new tools in the fields of Biotechnology and Bioengineering as well as their applications. It offers a study of tissue engineering tools, regenerative medicine and gene editing, computational drug design, tissue-on-chip development, bio-inspired materials, 3D bioprinting, computational modeling of biological systems, and synthetic biology. This course places special emphasis on how artificial intelligence is shaping each of these tools and applications.

Language(s) of Instruction

English

Host Institution Course Number

20729

Host Institution Course Title

HERRAMIENTAS EMERGENTES EN BIOTECNOLOGÍA

Host Institution Course Details

<https://aplicaciones.uc3m.es/cpa/generaFicha?est=221&anio=2025&plan=446&asig=20...>

Host Institution Campus

LEGANÉS

Host Institution Faculty

Escuela Politécnica Superior

Host Institution Degree

Host Institution Department

Minicurso de Humanidades

Course Last Reviewed

2025-2026

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