

COURSE DETAIL

MOLECULAR AND SYNTHETIC PLANT BIOLOGY 3

Country

United Kingdom - Scotland

Host Institution

University of Edinburgh

Program(s)

University of Edinburgh

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

144

UCEAP Course Suffix**UCEAP Official Title**

MOLECULAR AND SYNTHETIC PLANT BIOLOGY 3

UCEAP Transcript Title

PLANT BIOLOGY 3

UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

The course looks at how plants work and how this knowledge is being used in crop improvement and biotechnology. The course is also about developing students' skills, from designing and analyzing experiments to finding, evaluating, and presenting information.

The course particularly explores aspects of plants that make them unique. It is centered on the processes underlying growth, development, and how plants interact with their environment and with the pathogens and symbionts that they share it with.

Students learn how plants use their genetic information and how this knowledge can be harnessed via the latest synthetic biology, gene editing, and high-throughput sequencing technologies available to improve crops and tackle climate change.

Language(s) of Instruction

English

Host Institution Course Number

BILG09021

Host Institution Course Title

MOLECULAR AND SYNTHETIC PLANT BIOLOGY 3

Host Institution Course Details

<http://www.drps.ed.ac.uk/23-24/dpt/cxbilg09021.htm>

Host Institution Campus

Host Institution Faculty

School of Biological Sciences

Host Institution Degree

Host Institution Department

Course Last Reviewed

2023-2024

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