# COURSE DETAIL

| MOLECULAR AND SYNTHETIC PLANT BIOLOGY 3 |
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| **Country**<br>United Kingdom - Scotland |
| **Host Institution**<br>University of Edinburgh |
| **Program(s)**<br>University of Edinburgh |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Biological Sciences |
| **UCEAP Course Number**<br>144 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>MOLECULAR AND SYNTHETIC PLANT BIOLOGY 3 |
| **UCEAP Transcript Title**<br>PLANT BIOLOGY 3 |
| **UCEAP Quarter Units**<br>8.00 |
| **UCEAP Semester Units**<br>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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