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 Campus

Host Institution Faculty
School of Biological Sciences

Host Institution Degree

Host Institution Department

Print