MSc Plant Biology – Future Crops

UCD School of Biology & Environmental Science, Dublin, Ireland

The last decade has seen rapid developments in our understanding of plants and their significance to our wellbeing into the 21st century. This has been achieved through advances in a range of disciplines including genetics, genomics, cell biology, physiology, ecology and studies on climate change. This knowledge is the foundation for improving existing crops and for the development of novel crops to meet future challenges.

Graduates of this one year MSc will be equipped with the knowledge and skills in these recent advances in the relevant resources to rise to the future challenges in academia, industry and policy development. Innovation and entrepreneurship permeate the course as central themes and in addition a specific module on entrepreneurship in plant biology is delivered.

This MSc covers a wide diversity of both topics and approaches and is taught by a high-profile research oriented group of academics. Students will have full involvement in active research groups and access to and experience of a large array of state-of-the-art facilities and technologies.

What will I study?

This 90 ECTS one year taught MSc is comprised of 60 ECTS of taught modules and a 30 ECTS independent research project / minor thesis component. Students can tailor the taught component of the course to their individual requirements through module selection.

Modules include:

- Entrepreneurship in Plant Biology
- Current Developments in Plant Biology
- Environmental Biotechnology
- Plant-Atmosphere Climate Interactions
- Developmental Plant Genetics
- Programmed Cell Death in Plants
- GMOs in the Environment
- Insect-Plant Interactions
- Biological Invasions
- Ecological Significance of Different Photosynthetic pathways
- Biological Atomic Force Microscopy

Contact

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