

Plant Biology

CAO code: DN200 Option: Biological, Biomedical and Biomolecular Science (BBB)



Experiment on maize in the Programme for Experimental Atmospheres and Climate (PÉAC) lab at UCD.
Image by Peter Lang © UCD

- Understand how plants are a vital component of the biosphere and are responsible for the environmental conditions essential for all life on Earth
- Develop skills to study how plants and plant cells grow and develop

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My UCD degree has provided me with the opportunity to work abroad and it has also allowed me to travel all over Europe and even to China as part of my current research.

Padraic Flood, Graduate

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Sample pathway for a degree in Plant Biology *

YEAR 1

ENGAGE WITH THE PRINCIPLES

BIOLOGY

Topics include:

- ▶ Biology in Action
- ▶ Life on Earth
- ▶ Cell Biology & Genetics
- ▶ Biomedical Sciences

CHEMISTRY

Topics include:

- ▶ The Basis of Organic and Biological Chemistry

MATHEMATICS

Topics include:

- ▶ Mathematics for the Biological & Chemical Sciences

- ▶ Two Elective modules
- ▶ One Small-Group Project

YEAR 2

CHOOSE YOUR SUBJECTS

PLANT BIOLOGY

Topics include:

- ▶ Chemistry for Biologists
- ▶ Biological Systems
- ▶ Principles of Plant Biology and Biotechnology
- ▶ Applied Plant Biology
- ▶ Principles of Cell and Molecular Biology

ENVIRONMENTAL BIOLOGY

Topics include:

- ▶ Principles of Environmental Biology and Ecology

ZOOLOGY

Topics include:

- ▶ Principles of Zoology
- ▶ Animal Behaviour
- ▶ Molecular Genetics and Biotechnology

- ▶ Two Elective modules

YEAR 3

FOCUS ON YOUR CHOSEN SUBJECT

PLANT BIOLOGY – Topics include:

- ▶ Plant Diseases
- ▶ Plant Form & Function
- ▶ Plant Biotechnology
- ▶ Plant Growth & Nutrients

- ▶ Plant Cell Growth & Signalling
- ▶ Working with Biological Data
- ▶ Genetics
- ▶ Systems Ecology

- ▶ Two Elective modules

YEAR 4

REFINE YOUR KNOWLEDGE

PLANT BIOLOGY – Topics include:

- ▶ Plant Atmosphere Climate Interactions
- ▶ Peatlands and Env. Changes
- ▶ Plant Biology Research Project

- ▶ Environmental Impact Assessments
- ▶ Developmental Plant Genetics
- ▶ Cell Signalling in Plants

- ▶ Plants and Stress
- ▶ Different Photosynthetic Pathways

BSc (Honours) Plant Biology

MSc (Taught)

- ▶ MSc Applied Environmental Science
- ▶ MSc World Heritage Management
- ▶ MSc Plant Biology & Biotechnology

PhD

- ▶ Students can pursue a PhD in universities in Ireland or abroad in areas as diverse as climate change, marine biology or cell and molecular biology.

Industry

- ▶ National Parks and Wildlife Services
- ▶ State and Semi-State bodies
- ▶ Conservation Bodies
- ▶ Agriculture and Aquaculture
- ▶ Environmental Management

Conversion Courses

- ▶ Professional Master of Education (PME)
- ▶ Graduate Medicine
- ▶ Master of Business Administration
- ▶ Master in Management
- ▶ Graduate Veterinary Medicine

*See pages 4 and 5 for information on the terminology used above. Potential combinations shown here are examples only and are not guaranteed by UCD. Topics are subject to change each year.



www.ucd.ie/myucd/plantbiology

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