



# Life and Health Sciences

*Pre-Masters and Taught Masters  
Programmes at UCD*





## About Ireland and Dublin

Ireland is an English speaking country located on the western edge of Europe, which makes it an ideal gateway to the European Community (EC) and North America. English is the most common language of communication in the European zone and beyond. Dublin, the vibrant capital of the Republic of Ireland, is the centre of political, diplomatic, administrative and commercial life in the country. The city has a population of over one million people and is the European business base for many multi-national companies. At the same time Dublin's central location makes it easy for everyone visiting Ireland to explore the country's natural beauty.

## About UCD



University College Dublin (UCD) is Ireland's largest university. It is a dynamic, modern university on a parkland campus, where cutting-edge research and academic achievements provide a stimulating intellectual environment, the ideal surroundings for learning and discovery.

UCD's international students come from over 100 countries. The UCD International Office supports all overseas students during their time studying at UCD.



- UCD is in the top 100 universities in the world, according to the Times Higher Education QS World University Rankings in 2009.
- UCD is the largest university in Ireland and top-ranked in terms of research funding in 2009.
- UCD is an integral part of Dublin, capital city of Ireland and gateway to Europe. The parkland campus occupies a 132 hectare site in the southern suburbs, close to the city centre.
- For over 150 years, UCD has produced graduates of remarkable distinction including famous architects, scientists, entrepreneurs and five of Ireland's Prime Ministers.



## About Life and Health Sciences at UCD

Key disciplines cover basic and applied sciences, health science, agriculture, food and veterinary medicine. Teaching and research at UCD in the area of life and health sciences benefit from discipline integration to offer a world-class experience for students. Broad areas of interest include biological science and engineering, medical and health science, veterinary science, agricultural science and engineering, and food science and engineering. There are strong links to local and international companies, national institutes and regulatory authorities. World-class research positively enhances teaching in UCD.



## Study options

Depending on level of English, students have two study options available. Students who fulfil a minimum of IELTS 6.5 or above have the option of direct entry to one-year Taught Masters programmes.

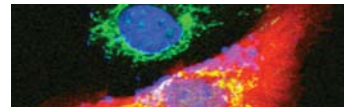
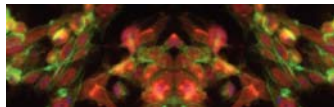
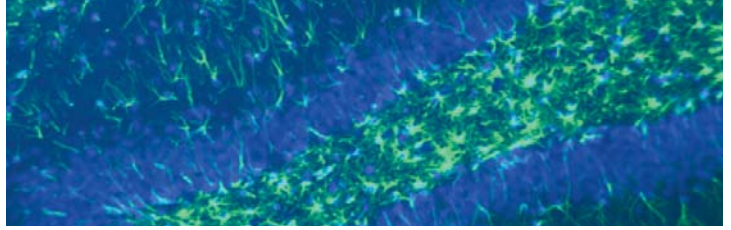
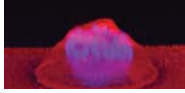
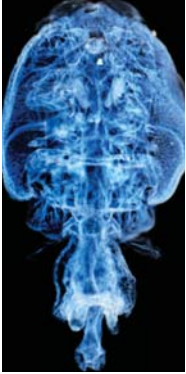
Students who have IELTS 6.0 can choose a Pre-Masters option first. Pre-Masters programmes are designed to offer students the opportunity to enhance their fluency in speaking, reading and writing in English. The Pre-Masters programme includes English language training, academic study skills courses, introduction to life in Ireland and Europe and some discipline-specific courses. At the end of the Pre-Masters students will have gained a level of English that meets the requirement for entry to Taught Masters programmes.

If a student comes from a university where a signed agreement between that university and UCD exists, Pre-Masters programmes can form a recognised element of a student's undergraduate curriculum. Pre-Masters programmes can last one full year (September start) or one semester (January start), depending on the agreement signed between the student's home university and UCD, the area of study and availability of places.

**For more information on Pre-Masters options, one-year Taught Masters Programmes, and fees, please visit:**  
<http://www.ucd.ie/lifesciences/international>.



## Taught Masters



### MSc Applied Science (Environmental Science)

Contact: [mary.kelly-quinn@ucd.ie](mailto:mary.kelly-quinn@ucd.ie) (Dr Mary Kelly Quinn)

This programme is delivered by a multidisciplinary team of experts covering the key aspects of environmental science to provide the knowledge base and skills required to address environmental problems, assessment, management or policy. There is a heavy emphasis on practical training in planning, information sourcing, field and laboratory methods, data analysis, reporting and communication.

### MSc(Agr) Bioresource Technology

Contact: [karen.holland@ucd.ie](mailto:karen.holland@ucd.ie) (Ms Karen Holland)

This programme is about gaining the skill sets in a range of disciplines related to engineering technologies dealing with the bio-processing sector (i.e., food sector), environmental management and protection, and sustainable bioresource utilisation.

### MSc Biotechnology

Contact: [loraine.smith@ucd.ie](mailto:loraine.smith@ucd.ie) (Dr Loraine Smith)

This multidisciplinary programme drawing on the disciplines of microbiology, biochemistry, pharmacology and bioprocess engineering will equip graduates with the theoretical background, practical training and ancillary workplace skills required for a successful career in the field of biotechnology.

### MSc Biotechnology and Business

Contact: [loraine.smith@ucd.ie](mailto:loraine.smith@ucd.ie) (Dr Loraine Smith)

Graduates will acquire industrially relevant expertise in biopharmaceutical innovation, technology and regulatory affairs. In addition graduates will develop an understanding of, and skills required for, entrepreneurship while learning to manage human, financial and technological capital. The combined expertise in biotechnology and business will enable graduates to innovate in complex business environments from small start-ups to Fortune 500 companies.

### MSc(Agr) Environmental Resource Management

Contact: [john.fry@ucd.ie](mailto:john.fry@ucd.ie) (Dr John Fry)

This full-time 12-month programme is concerned with the nature, utilisation and conservation of land and other biogeophysical resources. It addresses the impact of agricultural and industrial activities on the environment, and fosters the planned development and sustainable management of the rural environment and other resource sectors.

### MSc Sustainable Energy & Green Technologies

Contact: [philip.owende@ucd.ie](mailto:philip.owende@ucd.ie) (Dr Philip Owende)

This programme focuses on renewable energy resources, renewable energy technologies, environmental sustainability and preparation for business innovation. It covers renewable energy projects evaluation and market analysis, sustainable energy systems integration and innovation and technology transfer. It addresses the environmental impact of biomass-to-energy systems; the use of land for food versus fuel.

### MSc Evolutionary Biology

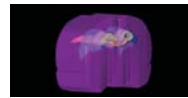
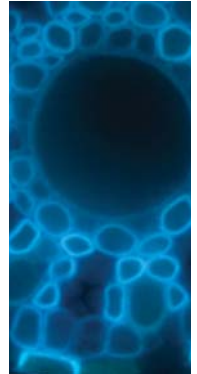
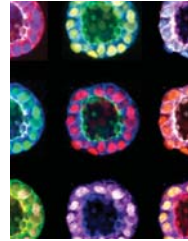
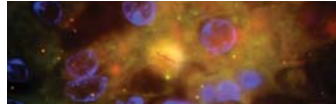
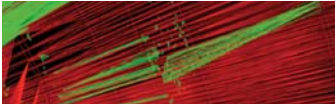
Contact: [stefano.mariani@ucd.ie](mailto:stefano.mariani@ucd.ie) (Dr Stefano Mariani)

This programme focuses on the eclectic nature of biological evolution. 150 years after the publication of Darwin's '*The Origin of Species*', it showcases advances and developments, including the array of tools and approaches available to study the evolutionary process, and delves into the contribution of evolutionary thinking to medicine, environmental sciences and psychology.

### Master of Engineering Science - Food Engineering

Contact: [karen.holland@ucd.ie](mailto:karen.holland@ucd.ie) (Ms Karen Holland)

This programme provides a comprehensive coverage of the engineering principles involved in bioprocess and food manufacturing systems. It includes food and bioprocess engineering, risk assessment, process development, process control, advanced manufacturing systems and associated environmental issues.



### MSc Food Safety & Risk Analysis

Contact: [patrick.wall@ucd.ie](mailto:patrick.wall@ucd.ie) (Prof. Patrick Wall)

This is a novel degree specifically tailored for international students who are working for or planning to work for the regulatory authorities in their home country or for their national food industries exporting to the EU. What makes this masters degree unique is the fact that the students will have placements with industry sectors and the regulatory agencies to gain an understanding of how EU regulatory requirements are complied with and enforced.

### MSc Imaging and Microscopy

Contact: [bioimaging@ucd.ie](mailto:bioimaging@ucd.ie)

This programme provides comprehensive insight into current biological imaging approaches, extensive practical use of state-of-the-art equipment and access to world-leading experts in biological imaging technologies.

### MPH Public Health

Contact: [public.postgraduate@ucd.ie](mailto:public.postgraduate@ucd.ie)

The perspectives and skills acquired in this programme will be of importance both to employers and employees. These skills are now becoming increasingly important as we face the challenges of providing appropriate, cost-effective and equitable health services for the 21st century.

### MPH Public Health (Nutrition)

Contact: [public.postgraduate@ucd.ie](mailto:public.postgraduate@ucd.ie)

This specialised MPH programme provides knowledge of the factors influencing health status, epidemiological skills of study design and analysis, skills to assess the health status of populations and an understanding of the organisation and financing of health services.

### MSc in Sport, Golf and Exercise Management

Contact: [sports.studies@ucd.ie](mailto:sports.studies@ucd.ie)

This innovative programme with specialisations in golf, exercise and sport management prepares international sport managers to professionally deliver programmes and services in a global sport market. Lecturers, representing evidence-based best practice, are drawn from the sport and exercise industry including NGBs, sports law, professional sport, health and fitness agencies, sport management consultants, professional golf, entrepreneurial management, and sport marketing and sponsorship.

### MSc(Agr) Sustainable Agriculture and Rural Development

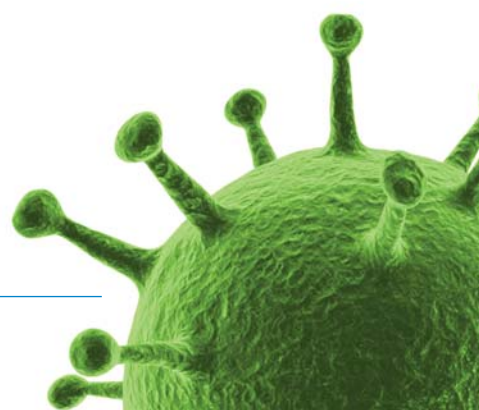
Contact: [karen.holland@ucd.ie](mailto:karen.holland@ucd.ie) (Ms Karen Holland)

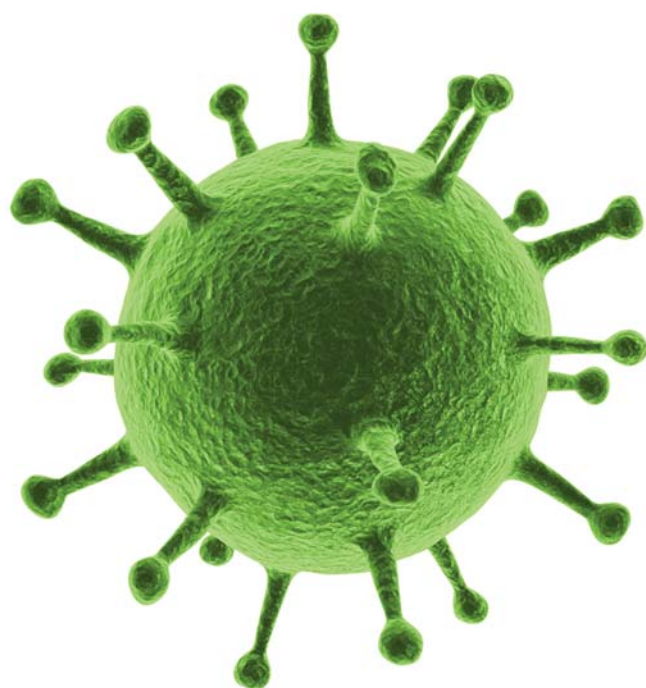
“Sustainable Agriculture and Rural Development involves education, use of economic incentives and the development of new technologies to ensure stable supplies of nutritionally adequate food. It also involves employment and income generation as well as natural resource management and environmental protection” (United Nations, Agenda 21).

### MSc World Heritage Management

Contact: [claire.cave@ucd.ie](mailto:claire.cave@ucd.ie) (Dr Claire Cave)

This programme provides the skills necessary to become managers responsible for World Heritage sites and equivalent cultural and natural sites around the world. Students will develop a comprehensive understanding of the World Heritage Convention and of the management and conservation challenges facing site managers and policy-makers.





University College Dublin (UCD),  
Belfield, Dublin 4, Ireland.

## Useful websites

### Life Sciences & Health Sciences:

<http://www.ucd.ie/lifesciences>

### International Office & UCD International Student Handbook:

<http://www.ucd.ie/international>

### Accommodation:

<http://www.ucd.ie/residences>

### Apply to UCD:

<http://www.ucd.ie/apply>

### Tourism in Ireland:

<http://www.discoverireland.ie>

### Dublin Tourism:

<http://www.visitdublin.com>

## How to apply

To apply for our Pre-Masters Programmes,  
please email: [PreMasters@ucd.ie](mailto:PreMasters@ucd.ie)

To apply for direct entry to one of our Taught Masters  
courses please visit: [www.ucd.ie/apply](http://www.ucd.ie/apply)

For more information on Life & Health Science  
Pre-Masters and Taught Masters Programmes please visit:  
[www.ucd.ie/lifesciences/international](http://www.ucd.ie/lifesciences/international)

### Acknowledgements for photographs used:

Glia Dentate Gyrus

Kaleidoscope 2

The sample

Colours of Science

Kidney Cells

A world of its own

BrainCon

Brain Construction

The amazing anatomy of a barley root under UV light

Interstellar Spirochete

Into the deep blue

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Emer Gilligan

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Emer Gilligan

Darren Scully

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Thorsten Knipfer

Pablo Rojas

Eleanor Cunningham

