



University College Dublin  
Ireland's Global University



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## MSc Applied Environmental Science (1 Year Full Time)

Several agencies at a national and international level are required to manage our environment sustainably by implementing policy and legislation. The study of Applied Environmental Science is critical for establishing policies in environmental assessment, evaluating potential change in environmental quality in response to various land use and other activities, and in the development of management and conservation strategies, as well as contributing to policy formulation. This programme provides graduates

with a thorough knowledge of Environmental Science and there is a heavy emphasis on practical training in fieldwork, laboratory analyses, information sourcing, data analysis, planning, reporting and communication. You will work with an interdisciplinary team of experts covering the key aspects of Environmental Science, encompassing marine, freshwater and terrestrial systems, to make this an exceptionally practical multidisciplinary programme.

## Why study at UCD?



### Tradition

Established 1854, with 160 years of teaching & research excellence



### Global profile

UCD is ranked in the top 1% of higher education institutions worldwide



### Global community

Over 6,000 international students from over 120 countries study at UCD



### Global careers

Degrees with high employability; dedicated careers support; 1 year stay-back visa



### Safety

Modern parkland campus with 24 hour security, minutes from Dublin city centre

### Key Fact

This is the only Applied Environmental Science course in Ireland to include a major input from civil engineering, relating particularly to water quality, hydrology and waste treatment processes.

## Course Content and Structure

**90 credits**  
taught masters

**70 credits**  
taught modules

**20 credits**  
individual research project/task

### Samples of modules include:

- Water Resources Engineering
- Environmental Impact Assessment
- Quantitative Tools for the Life Sciences
- Freshwater Resources Assessment
- Global Change Ecology
- Wildlife & Resources Management
- Marine/Coastal Ecology
- Soil Ecology
- Environmental Geology
- Ecotoxicology & Air Quality Monitoring
- Vegetation Ecology
- Geographic Information Systems (GIS) and Data Analyses
- Remote Sensing
- Ecological Modelling
- Integrated Municipal Solid Waste Management
- Water, Waste & Environmental Modelling

### Research Project/Task (20 credits)

This project includes time spent collecting data in the field on a research topic towards the production of journal ready articles and includes a work placement for at least a 6-week period in the environmental sector (including consultancies, government agencies and industry).

The course gives due consideration to key legislative requirements and policy developments. Modules and topics shown are subject to change and are not guaranteed by UCD.



## Career Opportunities

Our graduates are building successful varied careers in environmental resources assessment, management and protection. A considerable number have been employed in consultancy positions and some are also with the Inland Fisheries Ireland, the Department of the Environment and the Environmental Protection Agency (EPA). Some graduates have also continued their studies at PhD level in the areas of fisheries, biomass fuels, soil, water engineering and invertebrate ecology.



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## Fees and Scholarships

Tuition fee information is available on [www.ucd.ie/fees](http://www.ucd.ie/fees). Please note that UCD offers a number of postgraduate scholarships for full-time, self-funding international students, holding an offer of a place on masters programmes. Please visit [www.ucd.ie/international/scholarships](http://www.ucd.ie/international/scholarships) for further information.

## Facilities and Resources

The School of Biology and Environmental Science has 14 state-of-the-art research laboratories that are equipped to support a very wide range of research activities at the cellular or whole organism level. The UCD Rosemount Environmental Research Station can also support glasshouse or field-based experiments.

## Apply Now

This programme receives significant interest so please apply early online at [www.ucd.ie/apply](http://www.ucd.ie/apply)

## Entry Requirements

- This programme is intended for applicants with a primary degree in science, engineering, geography, architecture or a related subject. An upper second class honours or international equivalent is required.
- Applicants whose first language is not English must also demonstrate English language proficiency of IELTS 6.5 (no band less than 6.0 in each element), or equivalent.

## Accommodation

UCD has accommodation for over 2,500 students across five locations. Places are limited and more information is available at [www.ucd.ie/residences/](http://www.ucd.ie/residences/). For information and advice on living off campus, please contact the UCD Residences Off-Campus Office or the UCD Student Union Accommodation Services. Please visit [www.ucd.ie/residences/accommodation-booking-support/](http://www.ucd.ie/residences/accommodation-booking-support/) for further details.

## Additional Course Delivery Options

- MSc Applied Environmental Science 2 Years Part Time

## Graduate Profiles



**Dr Gustavo Becerra Jurado,**  
Research Officer,  
Inland Fisheries Ireland

I had a very positive experience the year I was a student of the MSc Environmental Science programme at UCD. I really enjoyed the lectures and I had the support of my project supervisor. This course equipped me with many invaluable skills that are needed in the current job market.



**Dr Rachel Wisdom,** Entomologist,  
Department of Agriculture,  
Food and the Marine, Ireland.

I studied environmental science and agriculture as an undergraduate. The masters degree in Applied Environmental Science at UCD was perfect as it covered a wide range of relevant topics in excellent detail. This enhanced my environmental science skills and led to my selection for a PhD in environmental science research at UCD.

## Related Masters Programmes of Interest

- MSc Environmental Sustainability (Negotiated Learning) (Online)
- MSc World Heritage Management & Conservation
- MSc Environmental Policy
- MSc Environmental Technology

## EU Enquiries

Dr Jan-Robert Baars ✉: [mscenvsci@ucd.ie](mailto:mscenvsci@ucd.ie) ☎: + 353 1 716 2395  
[www.ucd.ie/courses/msc-environmental-science](http://www.ucd.ie/courses/msc-environmental-science)

## Non-EU Enquiries

✉: [internationaladmissions@ucd.ie](mailto:internationaladmissions@ucd.ie)  
[www.ucd.ie/international](http://www.ucd.ie/international)

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