Irish Aid Rialtas na hÉireann Government of Ireland

Ireland–SIDS Fellows Programme 2020/21

Course Directory

Dept of Foreign Affairs & Trade



Important Information for Applicants

ABOUT THIS DIRECTORY

This directory should be read alongside the guidance notes to the programme application form. These notes explain the application process and you are advised to study them carefully.

On your application form, you are required to identify the specific postgraduate course(s) in order of preference you are interested in undertaking, based on the information in this directory and the latest details provided by the relevant institution. You should not rely solely on the information in this document, as the information about courses provided by institutions at the time of publishing this directory may be subject to change. **Before preparing or submitting an application, you are advised to check all details with the online information provided by the college. You should particularly ensure that you meet all eligibility requirements for the selected course(s).** It is also important that you research the institution you propose to study at to ensure that it is a good fit for you and will meet your expectations.

Information on making a course application will be provided to candidates shortlisted by the Embassy of Ireland. <u>Fellowship applicants are advised NOT to apply for any courses in Ireland</u> <u>until after they have been shortlisted for a Fellowship award following interviews.</u> Please note that application fees will be paid by the Department of Foreign Affairs and Trade for shortlisted candidates only. Reimbursements will not be made where a shortlisted candidate applies for a course before being formally approved by the Embassy of Ireland to do so.

ABBREVIATED WEB ADDRESSES

Throughout the listings, many long web addresses for course information have been shortened, for example: www.bit.ly/qEdRCn. This format allows for easier transcription, if required. Any capitalisation should be noted accurately as these shortened addresses are case-sensitive.

ENGLISH LANGUAGE PROFICIENCY

To fulfil study requirements of higher education institutions in Ireland, all candidates for study in Ireland will be required to hold an IELTS certificate - www.ielts.org - with a minimum overall score of 6.5. The relevant Embassy of Ireland will cover the cost of an IELTS exam for shortlisted applicants who do not hold a certificate that is dated September 2018 or later.

Please note that some courses in Ireland may specify a higher IELTS requirement than above for admission. Where possible, this is indicated in the listings. Courses marked with an asterisk (*) have more stringent IELTS requirements than an overall score of 6.5. Some will have minimum score requirements for each individual band; some will require a minimum 7.0 overall score or higher.

Applicants are asked to please check the course webpage for more information. IELTS requirements for other courses may also change after the publication of this directory, so applicants are asked to check the course webpage or contact the college directly to confirm the IELTS requirements for any course(s) they are considering applying to. It is the applicant's responsibility to research the required academic and IELTS qualifications for their chosen course, to ensure that they have the necessary standard.

KEY TO IRISH UNIVERSITIES, INSTITUTES OF TECHNOLOGY AND COLLEGES WITH LISTED COURSES

AIT	Athlone Institute of Technology
CIT	Cork Institute of Technology
DBS	Dublin Business School
DCU	Dublin City University
GCD	Griffith College Dublin
GCL	Griffith College Limerick
GMIT	Galway-Mayo Institute of Technology
ITC	Institute of Technology, Carlow
LIT	Limerick Institute of Technology
MIC	Mary Immaculate College
MU	Maynooth University
NCI	National College of Ireland
NUIG	National University of Ireland, Galway
SAC	St. Angela's College
TCD	Trinity College Dublin
TUD	Technological University Dublin
UCC	University College Cork
UCD	University College Dublin
UCDMS	UCD Michael Smurfit Business School
UL	University of Limerick
WIT	Waterford Institute of Technology

Athlone Cork Dublin Dublin Dublin Limerick Galway/Mayo Carlow Limerick Limerick near Dublin Dublin Galway Sligo Dublin Dublin Cork Dublin Dublin Limerick

Waterford

www.ait.ie www.cit.ie www.dbs.ie www.dcu.ie www.griffith.ie www.griffith.ie www.gmit.ie www.itcarlow.ie www.lit.ie www.mic.ie www.maynoothuniversity.ie www.ncirl.ie www.nuigalway.ie www.stangelas.nuigalway.ie www.tcd.ie www.dit.ie www.ucc.ie www.ucd.ie www.smurfitschool.ie www.ul.ie www.wit.ie

(See overleaf for map)

Map of Ireland

The cities and towns with universities, Institutes of Technology and colleges that are included in this directory are **highlighted** below (for a listing of the institutions, please see p iii)



LIST OF COURSES ELIGIBLE FOR STUDY

Courses marked with an asterisk (*) are courses have more stringent IELTS requirements than an overall score of 6.5. Some will have minimum score requirements for each individual band; some will require a minimum 7.0 overall score or higher. Please check the course webpage for more information. IELTS requirements for other courses may also change after the publication of this directory, so please check the course webpage or contact the college directly to confirm the IELTS requirements for any course(s) you are considering.

<u>Underlined</u> courses are highly competitive and/or only accept very high-achieving applicants. Applicants are advised to ensure that they meet all course entry requirements.

1.	MSc in Climate Change: Policy, Media and Society*	DCU
2.	MSc in Applied Marine Conservation*	GMIT
3.	MSc in Geocomputation	MU
4.	MSc in Geographical Information Systems & Remote Sensing	MU
5.	MSc in Climate Change	MU
6.	<u>MSc in Climate Change, Agriculture and Food Security*</u>	NUIG
7.	MSc in Environmental Leadership*	NUIG
8.	MSc in Coastal & Marine Environments: Physical Processes, Policy & Practice*	NUIG
9.	MA in Environment, Society and Development*	NUIG
10.	MSc in Global Environmental Economics*	NUIG
11.	MSc in Environmental Science	TCD
12.	MSc in Environmental Engineering	TCD
13.	MSc in Sustainable Energy	TCD
14.	MSc in Applied Coastal and Marine Management*	UCC
15.	MSc in Co-operatives, Agri-Food and Sustainable Development*	UCC
16.	MSc in Food Security Policy and Management	UCC
17.	MEngSc in Sustainable Energy*	UCC
18.	MSc (Agr) in Sustainable Agriculture and Rural Development*	UCD
19.	MSc (Agr) in Environmental Resource Management*	UCD
20.	MSc in Environmental Science*	UCD
21.	MSc in Sustainable Energy and Green Technologies*	UCD
22.	MSc in Urban Environment*	UCD
23.	MSc in Applied Geospatial Analysis*	UCD
24.	MSc in Environmental Technology*	UCD
25.	MSc in Renewable Energy & Environmental Finance*	UCDMS
26.	MSc in Sustainable Energy Engineering	WIT

1 MSc in Climate Change: Policy, Media and Society*

Study Location: Dublin City University

Course Duration: 1 year

Course Outline: This programme will equip students with critical insights and analytical skills to enable them to play a part in shaping the transition to a decarbonised and climate resilient future. Most postgraduate courses focused on climate change are concerned with the science of climate change. DCU's new MSc. in Climate Change: Policy, Media & Society is unique in Ireland in its focus on the social sciences and humanities, on media, policy, law, governance, regulation and politics.

Indicative Content: <u>Core</u> – Climate Change and the Media; Climate Change: The Physical Science Basis; Climate Change Policy and Governance; Research Methodology; Climate Change and Society Transition; EU and National Climate Change Law; Dissertation. <u>Options</u> – Environmental Ethics: Perspectives and Challenges; Environmental Change and World Politics; Climate Change Education; Policy Challenges; Communicating Policy; EU Foreign and Security Policy; The Politics of the Euro.

Admission Requirements: An undergraduate degree in any discipline with a minimum 2:2 or equivalent.

IELTS: Minimum 6.5 overall score required with no section less than 6.0.

Course Webpage: [shortened as] <u>https://bit.ly/2vKLXFs</u>

Application:

Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

2	MSc in Applied Marine Conservation*
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Study Location: Galway-Mayo Institute of Technology

Course Duration: 1 year

Course Outline: One-year taught MSc degree focusing on fisheries, marine conservation, sustainability and ecosystem based management

Indicative Content: Ecology of Top Predators in Marine Systems; Secondary Impacts of Harvest on Wild Populations and Ecosystems; Applied Geographic Information Systems; Data Analysis Using R and R Studio; Thesis; Seabird and Marine Mammal Population Assessment techniques; Life History Strategies and Trade-Offs.

Admission Requirements: The minimum requirement is a 2:2 in a cognate Honours Degree, e.g. Zoology, Ecology, Marine Biology, Wildlife Management, Conservation Biology.

IELTS: Minimum 6.0 overall score required with no section less than 6.0. Due to Irish Aid requirements, fellowship/scholarship applicants must achieve a minimum 6.5 overall with no section less than 6.0.

Course Webpage: [shortened as] <u>http://bit.ly/2xkKLdu</u>

Application: Apply via an online application form available at <u>https://www.gmit.ie/international/international-online-applications</u>

GMIT

PAC Code: DC669

3 MSc in Geocomputation

Study Location: Maynooth University

Course Duration: 1 year

Course Outline: This programme aims to provide a sound theoretical and practical foundation in geocomputation for numerate graduates with suitable backgrounds in subjects such as mathematics, engineering, geography, computer science, geomatics, and mining, and professionals working in cognate disciplines. The programme will provide students with a sound understanding of the theoretical principles underlying geocomputation. Students will gain a sound understanding of the practical aspects of Geographical Information System software and management.

Indicative Content: Structured Programming; Spatial Databases; Theoretical Remote Sensing; Geographic Information Science in Practise; Introduction to Geocomputation; Advanced Topics in Geocomputation; Object-Oriented Programming; Methods & Techniques in Geocomputation; Dissertation.

Admission Requirements: A minimum 2.1 honours degree or equivalent in a cognate discipline. Cognate disciplines include, but are not limited to: geography, computer science, geomatics, mining, engineering, mathematics. Applicants must have a recognised primary degree which is considered equivalent to Irish university primary degree level.

Course Webpage: [shortened as] <u>http://bit.ly/2v7zpo7</u>

Application:

Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

4 MSc in Geographical Information Systems & Remote Sensing

Study Location: Maynooth University

Course Duration: 1 year

Course Outline: This programme aims to provide highly qualified, motivated graduates who have been trained in Geographical Information Systems, Remote Sensing and Digital Image Processing and who can apply the information technology skills they obtain; to produce marketable graduates who will make significant contributions to GIS and RS application areas including; industry, government, academia, the community and voluntary sector and other public and private bodies; to provide an understanding of Geographical Information Systems and Remote Sensing, the technology involved and its applications for specific investigations.

Indicative Content: Introduction to Geographical Information Systems and Science; Theoretical Remote Sensing; Structured Programming; Spatial Databases; Analysing Spatial and Temporal Data using R; Digital Image Processing & Advanced Remote Sensing; Work Placement; Geographical Information Science in Practice.

Admission Requirements: The basic entry requirement is a degree with a minimum of Second Class Honours (2:1) or equivalent in any of the following subjects: Geography, Planning; Physics; Computer Science; Environmental Science; Geology; Mathematics; Engineering; Geophysics; Public Administration; Public Health or a cognate discipline.

Course Webpage: [shortened as] http://bit.ly/2uOy7Da

PAC Code: MH50B

MU

Application:

Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

5 MSc in Climate Change

Study Location: Maynooth University

Course Duration: 1 year

Course Outline: This programme aims to provide Graduates with the knowledge, skills and experience necessary to enable them to undertake analysis of both global and Irish related climate change science, impacts and policies. The programme explores ways of meeting the challenges posed by climate change, particularly in the areas of simulating future climates, impacts modelling, developing mitigation and adaptation strategies and decision making under uncertainty.

Indicative Content: Applied Climate Sciences; Impacts, Adaptation and Mitigation; Analysing Spatial and Temporal Data Using *R*; Detection, Attribution and Decision Making; The Ocean and Climate Change; Field Course; Thesis.

Admission Requirements: A minimum of Second Class Honours, Grade One (2.1) in any of the following subjects or cognate disciplines: Geography, Physics, Computer Science, Environmental Science, Engineering, Mathematics.

Course Webpage: [shortened as] <u>https://bit.ly/2IjULdE</u>

Application:

Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

6 MSc in Climate Change, Agriculture and Food Security*

Study Location: NUI Galway

Course Duration: 1 year

Course Outline: This programme is aimed at students who want to combine scientific, engineering, technical, social or policy skills so that they are better equipped to understand and make significant contributions regarding the adaptation and mitigation of climate change impacts on global agriculture and food security. Students are provided with the skills and tools for developing agricultural practices, policies and measures to address the challenge that global warming poses for agriculture and food security worldwide.

Indicative Content: Climate Change, Agriculture & Global Food Security; Climate Change, Agriculture, Nutrition & Global Health; Policy & Scenarios for Climate Change Adaptation & Mitigation; Gender, Agriculture & Climate Change; Low-Emissions Climate-Smart Agriculture & AgriFood Systems; Climate Change Adaptation, Mitigation & Risk Management; Monitoring Climate Change: Past, Present, Future; Climate Change, Natural Resources & Livelihoods; AgriBiological Responses to Climate Change; CCAFS Science Communication: Techniques & Models; CCAFS Case Studies, Journal Club & Datasets; CCAFS Research Skills/Techniques; CCAFS Research Project.

Admissions Requirements: Minimum 2:1 honours degree or equivalent in an appropriate discipline.

PAC Code: MHN58

PAC Code: MHN56 ication code shown

NUIG

MU

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: <u>www.nuigalway.ie/ccafs</u>

Application: Apply online at <u>https://nuigalway.elluciancrmrecruit.com/Apply</u>

7 MSc in Environmental Leadership*

Study Location: NUI Galway

Course Duration: 1 year

Course Outline: The MSc in Environmental Leadership will equip graduates with an advanced level of knowledge and problem-solving, management and communication skills in key areas relevant to the environment, marine and energy sectors. It will equip them with a capacity and capability for environmental leadership relevant to their career trajectory.

Indicative Content: <u>Core</u> – Environmental Problems & Solutions; Project Management; Natural Resource Governance; Research Methods 1 and 2; Communication Science & Research; Introduction to Statistics and Data Analysis; Research Project. <u>Options</u> – Conceptualising Environment Society & Development; Environment & Human Health; Environmental Impact Assessment; Marine Spatial Planning & Policy; Introduction to Practical GIS; Introduction to Oceanographic and Environmental Data Analysis; Climate Change & Biodiversity.

Admission Requirements: Minimum 2:2 primary degree or its equivalent in an appropriate discipline, including Science, Geography and Social Science.

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: [shortened as] <u>https://bit.ly/2SHFN3b</u>

Application: Apply online at <u>https://nuigalway.elluciancrmrecruit.com/Apply</u>

8 MSc in Coastal & Marine Environments: Physical Processes, Policy & Practice*

Study Location: NUI Galway

Course Duration: 1 year

Course Outline: Coastal and marine environments are critical to local and national economies, support diverse habitats and communities, and provide a suite of ecosystem services. This field-intensive postgraduate programme examines emerging discourses surrounding the long-term health, use, and management of coastal and marine systems.

Indicative Content: <u>Core</u> – Field and Laboratory Methods; Coastal Processes and Landforms; Marine Spatial Planning and Policy; Dissertation. <u>Options</u> –Biodiversity and Coastal Change; Quaternary Coastal Change; Geographic Studies Abroad; Environment and Health; Geographic Research and Dissertation Abroad.

Admissions Requirements: Second Class Honours or Equivalent (+3.0 GPA). Selection is based on a review of candidate's academic record at the undergraduate level, professional interests and goals, and level of relevant experience.

NUIG

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: [shortened as] https://bit.ly/2YnEcES

Application: Apply online at https://nuigalway.elluciancrmrecruit.com/Apply

9 MA in Environment, Society and Development*

Study Location: NUI Galway

Course Duration: 1 year

Course Outline: The programme engages students on global concerns that encompass a complex and dynamic mesh of environmental, social and economic processes. It centrally involves a critique of interventionism and the various practices of development and security that define our contemporary world, and practically how that critique can enable more informed and potentially more transformative interventionary practices.

Indicative Content: <u>Core</u> – Conceptualising Environment, Society & Development; Geography and Geo-Graphing; Geopolitics & Security; Environment & Risk; Managing Development; Field Based Learning; Dissertation. <u>Options</u> – Geographic Studies Abroad; Geographic Research and Dissertation Abroad.

Admission Requirements: Second Class Honours degree with a 2:1 in Geography or related discipline and a 2:2 overall, or equivalent. Prior learning in terms of relevant work experience is also recognised.

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: [shortened as] <u>www.bit.ly/cG6CnV</u>

Application: Apply online at https://nuigalway.elluciancrmrecruit.com/Apply

10 MSc in Global Environmental Economics*

Study Location: NUI Galway

Course Duration: 1 year

Course Outline: The programme is specifically targeted to provide students with employability skills that are relevant to shape and influence future public policy, conduct environmental evaluations, lead research projects, work in a business or consultancy role, with international development and aid agencies or continue education through further academic study. The course consists of taught modules, an internship, and a minor dissertation which is usually closely linked to the internship.

Indicative Content: <u>Core</u> – Microeconomic Theory; Econometrics; Natural Resource Governance and Sustainability; Climate Change Economics; Cost-Benefit Analysis and Evaluation; Environmental Economic Modelling; Global Issues in Agricultural, Marine and Renewable Energy Economics; Dissertation. <u>Options</u> – Renewable Energy Economics and Policy; Innovation and Management; Social Marketing and Environmental Sustainability; Business Analytics with SAP.

NUIG

NUIG

Admission Requirements: Students with a primary degree with Second Class Honours, Grade 1 or equivalent, which will have included the study of Economics can apply.

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: [shortened as] <u>https://bit.ly/2YysLGy</u>

Application: Apply online at https://nuigalway.elluciancrmrecruit.com/Apply

11 MSc in Environmental Science

Study Location: Trinity College Dublin

Course Duration: 1 year

Course Outline: This full-time, intensive course is intended for administrative and scientific workers and new graduates with an appropriate environmental science related background, although applications from graduates with different backgrounds are also welcomed. The course provides a foundation of understanding of current environmental policies and legislation, and builds upon this with practical and theoretical courses that include subjects such as ocean and coastal management, water resources and pollution, climate change and environmental impact assessment.

Indicative Content: Introduction to environmental science; Environmental and chemical analysis; Hydrology and Groundwater quality; Earth system science I: Deep time; Earth system science II: Environmental and climate change; Environmental policies. <u>Practical skills modules</u>: Data handling and analysis; Practical environmental skills. <u>Project Modules</u>: Individual desk study; Project planning; Individual research project.

Admission Requirements: First or upper second class honours degrees, or their overseas equivalent, awarded by recognised universities, institutions and degree awarding bodies; or holders of other degrees or relevant qualifications including professional qualifications, who have at least three years' work experience in an environmental profession.

Course Webpage: <u>https://naturalscience.tcd.ie/postgraduate/msc-envirsci/</u>

Application: Apply online via the course webpage.

12 MSc in Environmental Engineering

Study Location: Trinity College Dublin

Course Duration: 1 year

Course Outline: The MSc in Environmental Engineering provides education and training to those eager to pursue a career in the protection of the Environment. It aims to develop students with a specialist understanding in the area of Environmental challenges facing the Environment today, and with specialist skills to address these. The course explores the themes of water, air, noise and soil pollution and how we may develop solutions for these challenges to protect the environment and society. The course also incorporates the grand challenges facing Environmental Engineers of this era including climate change, sustainability, and renewable energy.

TCD

TCD

Indicative Content: Civil Engineering Management; Research Methodology; Research Dissertation; Hydrological Processes and Hydrometry; Spatial Environmental Analysis and Impact Assessment; Air Pollution; Waste Management and Energy Recovery; Water Quality and Hydrological Modelling; Water Resource Planning and Climate Change; Sustainable Water Supply and Sanitation; Water Treatment Technologies; Introduction to Environmental Engineering.

Admission Requirements: An upper second honours degree (or equivalent) in a Civil Engineering or related degree. Relevant industrial experience may be taken into account in allocating places where the course is oversubscribed.

Course Webpage: [shortened as] <u>https://bit.ly/2voSJ3k</u>

Application: Apply online via course webpage.

13 MSc in Sustainable Energy

Study Location: Trinity College Dublin

Course Duration: 1 year

Course Outline: The MSc in Sustainable Energy is designed to provide engineers, and other suitably qualified graduates with a specialist understanding of energy management as well as sustainable energy generation. The course will advance your knowledge in efficiency techniques, sustainable energy technologies and energy management systems and strategies. It also includes theory and practice along with economics, management, current legal requirements and standards.

Indicative Content: Civil Engineering Management; Research Methodology; Research Dissertation; Wind Energy; Solar Energy Conversion and Applications; Building Energy Physics and Control; Energy Policy and Demand; Renewable Heat; Wave & Hydro Energy

Admission Requirements: An upper second honours degree (or equivalent) in a Civil Engineering or related degree. Relevant industrial experience may be taken into account in allocating places where the course is oversubscribed.

Course Webpage: https://www.tcd.ie/civileng/msc-in-sustainable-energy-engineering/

Application: Apply online via course webpage.

14 MSc in Applied Coastal and Marine Management*

Study Location: University College Cork

Course Duration: 1 year

Course Outline: The programme focuses on the science (including the social sciences) of Coastal and Marine management and policy-making today. It is designed to give students professional competency to make sound, scientifically-informed, strategic and operational decisions regarding the sustainable governance, use and protection of coastal and marine environments. It also provides training in applied practical skills, with an emphasis on geospatial techniques relevant to coastal and marine data capture, analysis, integration and visualisation. Students will also receive training in important transferrable skills including principles and practice of scientific research, effective communication and presentation techniques, and sound project management

UCC

TCD

Indicative Content: Marine Ecology and Conservation; Introduction to Geographical Information Systems; Introduction to Remote Sensing; Coastal and Marine Resource Use Practices; Coastal and Marine Governance; Coastal and Marine Processes; Practical Offshore Geological Exploration; Research Dissertation.

Admission Requirements: A primary degree to upper second class honours level (2:1 grade) or higher from a recognised third-level institution in Geography, Geology, Environmental Sciences, Biology, Oceanography, Physics, Mathematics, Engineering or a related discipline. Applications will also be considered from graduates in other disciplines, including those in the Arts and Social Sciences, who have a demonstrable interest and/or experience in coastal and marine management, and who can offer sufficient numerical abilities. Applicants with a degree of at least lower second class honours (2:2 grade), or its equivalent, in one of the areas mentioned above, plus at least five years of work experience relevant to the field of applied coastal and marine management will also be considered.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: https://www.ucc.ie/en/cke39/

Application:

PAC Code: CKE39

Apply online via The Postgraduate Applications Centre (PAC) – <u>www.pac.ie</u> – using the PAC application code shown above.

15 MSc in Co-operatives, Agri-Food and Sustainable Development*

UCC

PAC Code: CKL03

Study Location: University College Cork

Course Duration: 1 year

Course Outline: This is a unique course, with a very strong practical emphasis and will equip participants with the organisational and management skills needed to make innovative contributions to the development of local economies, with particular emphasis on co-operatives, social enterprises and food businesses in Ireland and overseas. It is aimed at graduates from a wide range of disciplines who wish to pursue careers in sustainable development and innovative practice leading to positions in the food sector (ranging from local food enterprises to large multi-nationals), local and international rural development, shared and collaborative economy, NGOs, innovative community businesses including co-operatives and social enterprises, local and regional enterprise development, corporate social responsibility, policy formulation and analysis.

Indicative Content: Contemporary Socio-Economic and Environmental Issues; Co-operative and Collaborative Responses; Sustainable Rural Development; Economics of Agri-Food Markets; Global Food Policy Issues; Marketing for Sustainable Food Production and Consumption; Food Branding and Digital Media; Project Management; Sustainable Food Systems; Food Supply Chain and Value Analysis; Research Methods; Professional Development; Practice-Based Research Project.

Admission Requirements: A minimum 2:2 degree or equivalent, in a wide range of disciplines.

IELTS: Minimum 6.5 overall score required with no individual section lower than 5.5.

Course Webpage: <u>https://www.ucc.ie/en/ckl03/</u>

Application:

Apply online via The Postgraduate Applications Centre (PAC) – <u>www.pac.ie</u> – using the PAC application code shown above. *Additional application information is posted on the course webpage.*

16 MSc in Food Security Policy and Management*

Study Location: University College Cork

Course Duration: 1 year

Course Outline: This course is designed to equip recent graduates and professionals with the knowledge, skills and competencies needed to work in the field of food security, particularly policy and programme management . The programme aims to provide students with skills that can be applied particularly in the areas of project and programme management, policy development and implementation, and impact assessment of programmes aimed at improving food security and dietary quality. The course is open to students from a wide range of backgrounds, including economics, nutrition, food security, international development, humanitarian assistance and programme management.

Indicative Content: Sustainable Food Systems; Advanced Food Security Theory, Practice and Analysis; Rural Development, Gender and Livelihoods; Economics of Agri-Food Markets and Value Chain Analysis; Health Information Systems and e-Health Analysis; Programme Planning and Impact Assessment; Research Methods; Food Security in Humanitarian Crises; Programme Planning and Impact Assessment; Public Health Nutrition: From Principles to Practice; Global Food Policy Issues; Applied Food Security Research Project.

Admission Requirements: At least a 2H2 in their primary degree, or equivalent in a relevant subject. Consideration may be given to applicants who do not hold a second class honours degree but who have at least five years general professional experience in a relevant field or three years managerial/specialist experience, subject to approval of the Programme Director and the Head of the College of Business & Law.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: <u>https://www.ucc.ie/en/ckl04/</u>

Application:

Apply online via The Postgraduate Applications Centre (PAC) – <u>www.pac.ie</u> – using the PAC application code shown above. *Additional application information is posted on the course webpage.*

17 MEngSc Sustainable Energy*

Study Location: University College Cork

Course Duration: 1 year

Course Outline: This programme aims to equip students with the information base and skill set to actively participate in this growing global market where energy/environment policy and technological innovation meet. It will provide students with knowledge and understanding of: (i) energy trends, their impacts on the environment and the engineering solutions to mitigate the damage; (ii) engineering of individual renewable energy sources of wind, hydro, biomass, wave, solar and geothermal; (iii) energy conversion processes for electrical, thermal and transport energy supply; (iv) the integration of intermittent renewable energy with the electricity network; (v) sustainable energy end use in building design, construction and management.

Indicative Content: Sustainable Energy; Solar and Geothermal Energy; Electrical Power System; Energy in Buildings; Energy Systems in Buildings; Wind Energy; Energy Systems Modelling; Biomass Energy; Photovoltaic Systems; Control Engineering; The Engineer in Society; Ocean Energy; Biomass Energy; Power Electronic Systems; Preliminary Research Project; Dissertation.

PAC Code: CKL04

UCC

Admission Requirements: Minimum 2:2 Honours BE or BEng Degree. Candidates with equivalent academic qualifications and suitable experience may be accepted.

IELTS: Minimum 6.5 overall score required with no section less than 6.0.

Course Webpage: https://www.ucc.ie/en/ckr26/

Application:

Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

18 MSc (Agr) in Sustainable Agriculture and Rural Development*

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: This course represents a return to core values in the development of rural areas which are rooted in agricultural change as well as responding to new societal demands such as safe and ethically produced food, a healthier environment and sustainable and affordable energy. The programme will equip graduates with capabilities in core analytical, conceptual, communications and research skills as well as providing the knowledge base required to develop careers in the broad arena of sustainable agriculture and rural development.

Indicative Content: Core - Sustainable Agriculture; Strategic Communications; Policies and Strategies for Sustainable Agriculture and Rural Development; Research Methods; Theory & Practice of Rural Enterprises; Minor Thesis. Options - World Heritage and Sustainable Development; Global Biodiversity and Heritage; Economics and Sociology in Rural Development; Planning for Development; Agricultural Extension and Innovation.

Admission Requirements: A minimum 2:2 Honours university degree.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpages: [shortened as] http://bit.ly/2thpPm8

Application: Apply online from course webpage.

19 MSc (Agr) in Environmental Resource Management*

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: The MSc in Environmental Resource Management is an established programme that develops graduates with the flexible combination of environmental science, policy and management expertise necessary to address these needs. The programme is accessible to candidates from a very broad range of primary degree backgrounds. Graduates from this programme respond to many of the major global sustainability challenges.

Indicative Content: Core – Data Analysis for Biologists; Research Project (AESC); Human Impact on the Environment; Seminar Presentation; Soil, Plant & Water Resources; Geographic Information Systems; Biodiversity and Ecosystem Services; Literature Review (AESC); Practice Research Skills; Ecological Modelling. Options -Wildlife Conservation; One Health; Rural Planning & Environmental Law.

UCD

UCD

PAC Code: CKR26

Admission Requirements: Applicants must hold minimum Lower Second Class Honours Degree in Biological Science, Environmental Science, Agricultural Science, Geography, Earth Sciences, Natural Sciences or cognate degree programme from a recognised higher education institution. Cognate degree programmes would include humanities, arts, business, law and engineering.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: [shortened as] www.bit.ly/2c3C2mu

Application: Apply online from course webpage.

20 MSc in Environmental Science*

UCD

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: 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. A work placement in an agency servicing the environmental sector is undertaken during the third semester obtaining industry relevant skills.

Indicative Content: <u>Core</u> – Soil Ecology; Quantitative Tools for the Life Sciences; Introduction to Water Resource Engineering; Freshwater Resources Assessment; Global Change Ecology; Thesis; Vegetation Ecology; G.I.S.; Environmental Geology. <u>Options</u> – Wildlife Conservation; Remote Sensing; Waste Management; Water Waste and Environmental Modelling; Integrated Municipal Solid Waste; Marine Community Ecology; Environmental Impact Assessment; Ecotoxicology and Air Quality; Ecological Modelling; Analyses for Environmental Investigations; Field-Based Freshwater Fisheries Investigations.

Admission 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.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: [shortened as] <u>www.bit.ly/2c1YgQN</u>

Application: Apply online from course webpage.

21 MSc in Sustainable Energy and Green Technologies*

UCD

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: The MSc in Sustainable Energy and Green Technologies focuses development and optimisation of renewable energy resource exploitation; efficiency in energy generation and utilisation pathway; mitigation of environmental impacts, and; preparation for business innovation and job creations opportunities in renewable energy systems technologies development, plant biotechnology and entrepreneurship.

Indicative Content: The Bioeconomy: A Strategy for Sustainable Fuel, Material and Chemical Production; Life Cycle Assessment; Thesis; Advanced Air Pollution; Waste to Energy Processes & Technologies; Energy Systems Integration; LCA Applications; Research and Teaching Methods; Biorefinery Process & Tech; Energy Systems & Sustainable Environments.

Admission Requirements: An honours undergraduate degree with a minimum upper second class honours or international equivalence in an engineering, physical science or environmental related degree.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: [shortened as] https://bit.ly/2OkdPvI

Application: Apply online from course webpage.

22 MSc in Urban Environment*

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: This MSc looks at urban environments holistically by integrating the perspectives of human and physical geography to explore urban environments. Exploration is complemented by developing fieldwork and geospatial skills. The key objective of the course is to address the challenge of achieving global sustainability by making resource efficient, smart and liveable cities.

Indicative Content: Environmental Risk and Behaviour; Dissertation; Geo-spatial Technologies; Urban Rivers; Reimagining Dublin: An Interdisciplinary Exploration in Urban Regeneration; Applied GIS; Research Design; International Urban Field Studies; Governing Nature.

Admission Requirements: This programme is intended for applicants with an honours bachelor's degree or international equivalent in any discipline including geography, political science, history, anthropology, economics and sociology, or professionals working in related fields. An upper second class honours (2.1) is required. Applicants with a 2.2 may be considered after interview in exceptional circumstances.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: [shortened as] <u>https://bit.ly/2DcWLSN</u>

Application: Apply online from course webpage.

23 MSc in Applied Geospatial Analysis*

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: The MSc in Applied Geospatial Analysis will provide you with strong theoretical, conceptual and practical foundation on spatial analytics, covering legislative requirements and ethical considerations. The aim of the programme is to provide you with the skillset for real-world spatial exploration of social, economic and environmental patterns and interactions in support of evidence-based planning and decision-making. It will afford you the opportunity to apply acquired skills in pragmatic contextual settings.

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Indicative Content: <u>Core</u> – Dissertation; Applied GIS; Research Design; Advanced GIS; Remote Sensing. <u>Options</u> – Introduction to GIS and Spatial Methods in Archaeology; Advanced GIS in Archaeology and Heritage; Critical Geopolitics of Europe; International Economic Crisis; Geo-spatial Technologies; Urban Rivers; Reimagining Dublin: An Interdisciplinary Exploration in Urban Regeneration; Geographies of the Global South; Latin America: Social Movements and Postcolonial Approaches; Practical Environmental Assessment; Population Geography; Social Simulation: Methods and Models; Quantitative Data Analytics & Applications.

Admission Requirements: This programme is intended for applicants with an honours bachelor's degree or international equivalent in any discipline including geography, political science, history, anthropology, economics and sociology, or professionals working in related fields. An upper second class honours (2.1) is required. Applicants with a 2.2 may be considered after interview in exceptional circumstances.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: [shortened as] <u>https://bit.ly/2DcWLSN</u>

Application: Apply online from course webpage.

24 MSc in Environmental Technology*

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: This programme will enable its students to acquire skills in the areas of environmental engineering, risk assessment, air pollution, waste management, life cycle assessment, buildings and environment, energy systems and sustainable environment. This Masters will provide graduates with the skills to develop technological solutions for air, water and soil protection and emerging sectors across industry (particularly agrifood and bioresources), consulting companies and regulatory authorities.

Indicative Content: Buildings and Environment; Quantitative Risk Assessment for Human and Animal Health; Environmental Engineering; Life Cycle Assessment; Advanced Air Pollution; Waste to Energy Processes & Technologies; LCA Applications; Research and Teaching Methods; Energy Systems and Sustainable Environment; Thesis.

Admission Requirements: Minimum of a 2nd Class honours degree in Science, Engineering, Agricultural Science, Environmental Science or related discipline.

IELTS: Minimum 6.5 overall score required with no section lower than 6.0.

Course Webpage: [shortened as] www.bit.ly/14UK6XV

Application: Apply online via course webpage

UCD

25 MSc in Renewable Energy & Environmental Finance*

Study Location: University College Dublin, Michael Smurfit Business School

Course Duration: 1 year

Course Outline: As the only Masters in the world covering both energy finance and environmental finance, this course offers an unrivalled level of specialisation in global energy and environmental markets. The curriculum encompasses the major theoretical aspects of energy and the environment in economics and finance, along with modules focusing upon the tools and techniques for evaluating a comprehensive range of global and regional energy-environment issues.

Indicative Content: <u>Core</u> – Quantitative Methods for Finance; Financial Econometrics; Capital Markets and Instruments; Commodity Finance; Financial Theory; Financial Analysis; Environmental Finance; Electricity Markets; Energy Economics and Policy; Green Business; Portfolio and Risk Management. Electricity Markets; Energy Economics and Policy; Green Business; Portfolio and Risk Management. <u>Options</u> – Mergers and Acquisitions; Financial Modelling; Advanced Treasury Management; Aircraft Financing; Behavioural Finance; International Finance; Applied Investment Management; Research Project.

Admission Requirements: Minimum 2:1 undergraduate degree in (i) Business/Commerce including quantitative subjects such as Economics, Finance or Accounting; or (ii) a Finance-related area, Mathematical Finance, Economics, Mathematics, Statistics, Environmental Science, Science, Computer Science, Engineering or Physics. Applicants should have demonstrated strong academic ability (a 1.1 or 2:1) in a number of quantitative modules in their degree, such as Mathematics, Statistics, or Econometrics. Candidates may be asked to sit the Graduate Management Admissions Test (GMAT).

IELTS: Minimum 7.0 overall score required with no section less than 6.0.

Course Webpage: [shortened as] <u>https://bit.ly/2AQedeu</u>

Application: Apply online via the course webpage.

26 MSc in Sustainable Energy Engineering

Study Location: Waterford Institute of Technology

Course Duration: 1 year

Course Outline: This course will provide students with expertise in energy use, environmental performance and sustainability in the design and operation of buildings and their associated facilities and services systems. It will encourage the development of students' powers of analysis, synthesis and communication to develop a broader understanding of Low Energy Building Design and Management.

Indicative Content: Sustainability and the Environment; Personal Effectiveness; Advanced Dynamic Thermal Simulation – Services Systems; Statistical Analysis; Energy Auditing; Dynamic Thermal Simulation – Building Fabric; Building Pathology and Investigation; Building Services Systems; Facilities Management; Passive and Low Energy Building Design; Sustainable Energy Technology; Research Methods; Dissertation.

Admission Requirements: Normally a second class honours degree in an engineering related and technical programme such as building services engineering, mechanical engineering, civil engineering, construction management, quantity surveying, architectural technology and architecture. Students from other associated engineering and science disciplines are welcome to apply.

WIT

Course Webpage: [shortened as] www.bit.ly/1Qhjj07

Application:

PAC Code: WD554 Apply online via The Postgraduate Applications Centre (PAC) – <u>www.pac.ie</u> – using the PAC application code shown above.