



University College Dublin

Agriculture, Food Science and Human Nutrition



MAIN MENU

UNDERGRADUATE PROGRAMMES

2018
ENTRY

Contents

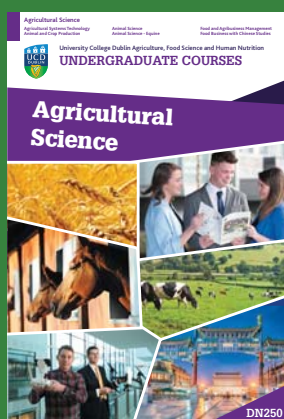
Welcome

What to Expect?

Up and Coming Events

Course Outlines

MAIN MENU



Agricultural Science

DN250

Agricultural Systems Technology

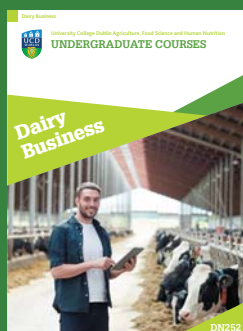
Animal and Crop Production

Animal Science

Animal Science - Equine

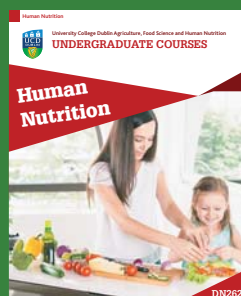
Food and Agribusiness Management

Food Business with Chinese Studies



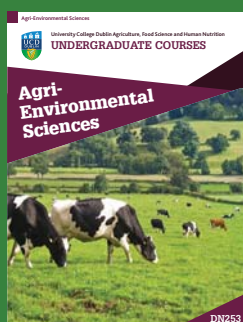
DN252

Dairy Business



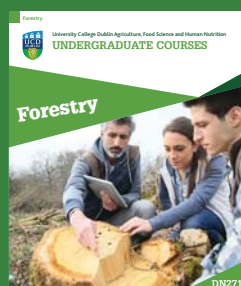
DN262

Human Nutrition



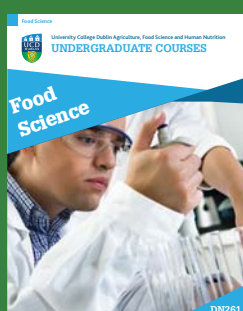
DN253

Agri-Environmental Sciences



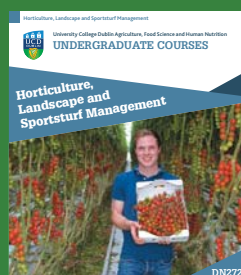
DN271

Forestry



DN 261

Food Science



DN272

Horticulture, Landscape and Sportsturf Management

Welcome

UCD is Ireland's Global University. With over 160 years of tradition, 7,000 international students, 400 exchange partners and 235,000 alumni worldwide, UCD is at the forefront of global knowledge. We provide programmes with a curriculum that is constantly changing, informed by innovative research and driven by lecturers and professors at the cutting edge of their disciplines.

The School of Agriculture and Food Science is one of UCD's largest Schools and holds a unique position in Ireland. The School offers 13 undergraduate programmes each of which will provide you with an opportunity to study a range of subjects central to many of the major global challenges of today. These include, food production, food security, non-food land uses, environmental sustainability, rural development, nutrition, health, business and economics. The world is increasing its focus on the need for both sustainable and innovative foods for its increasing population, many of whom demand more sophisticated food and health solutions for a changing lifestyle. At the same time, environmental, sustainability and societal challenges are becoming more and more relevant in the context of agriculture and food businesses and policy making.

Our focus at the UCD School of Agriculture and Food Science is to develop the next generation of agriculture and food leaders. Agriculture and Food is Ireland's largest indigenous industry and is one that continues to show considerable growth with great potential into the future. Ranked number one in Ireland and in the top 100 in the 2017 QS University Global Subject Rankings for Agriculture and Forestry, students at the UCD School of Agriculture and Food Science will be exposed to the latest scientific discoveries and knowledge that underpins each of our four year honours degree programmes. Graduates of our programmes obtain a holistic education giving them the capacity to contribute significantly to the Irish and global agriculture and food industries. The School of Agriculture and Food Science is unique with programmes that span the entire food chain, providing a diverse range of career opportunities in Ireland and internationally. A modular syllabus, Professional Work Experience and International Study Abroad opportunities contribute to the development of highly sought after graduates with innovation, entrepreneurship, critical thinking and problem solving skills.

Please study this brochure and see for yourself the wide range of programmes on offer at the UCD School of Agriculture and Food Science.

We look forward to welcoming you to our community.

Alex Evans

Professor Alexander Evans

UCD Dean of Agriculture



What to Expect?

Our reputation for being the most friendly and close-knit community in UCD is well known. Small class sizes enable you to get to know your class and lecturers quickly. Active student committees ensure a full itinerary of events throughout the year.

Year one on each of our programmes are similar and you will undertake core science subjects such as Biology, Chemistry, Physics (students enrolling on the Dairy Business programme (DN252) will not be required to undertake a Physics subject in year one) and Maths on each programme. This strong scientific foundation will serve you well for years 2-4 of your programme and indeed when you graduate with excellent and diverse career opportunities.

Supports and initiatives such as the Mathematics Support Centre, tutorials, laboratories and continuous assessment are designed to assist you along the way. Your timetable is fully modular and you will undertake and be examined in approximately six subjects each semester, ensuring you always have a manageable workload. In later years, your programme will become more specialised and you will undertake more subjects directly related to your preferred programme.

You can't be expected to achieve unless you have access to the best facilities and technologies. Students on our programmes will have access to modern lecture and teaching facilities, a full range of laboratories and a new dedicated food science building, a 250ha research farm with its own laboratories, a horticulture field station and computer access for all students.

Professional Work Experience (PWE) and international study opportunities are available to students on each of our programmes and normally take place during year three. Students continually highlight PWE as the most enjoyable aspect of the programme and details on PWE and the UCD Agriculture, Food Science and Human Nutrition Study Abroad Exchange Programme are included in this brochure.

NEW FOR 2018

BAgrSc
Food Business
with Chinese
Studies





Up and Coming Events

We know you have to make difficult decisions about your future study plans and careers and therefore we invite you to attend the following events where you can find out more about the Bachelor of Agricultural Science, BSc in Food Science and BSc in Human Nutrition degree programmes.

13-15 SEPTEMBER 2017	Higher Options RDS, Dublin
19-21 SEPTEMBER 2017	National Ploughing Championships Screggan, Tullamore, Co. Offaly
4 NOVEMBER 2017	UCD Open Day O'Reilly Hall, UCD
15 NOVEMBER 2017	UCD School of Agriculture and Food Science Kilkenny Information Evening* New Park Hotel, Kilkenny
23 NOVEMBER 2017	UCD School of Agriculture and Food Science Cork Information Evening * Clayton Hotel, Cork
9 JANUARY 2018	UCD CAO Information Evening* UCD
16 JANUARY 2018	UCD QQI-FET (FETAC) Entry to Science, Computer Science and Agriculture and Food Science Open Day* Moore Auditorium, UCD O'Brien Centre for Science
MARCH 2018	Agri Aware's Farm Walk and Talk at UCD Lyons Research Farm** UCD Lyons Research Farm, Celbridge, Co Kildare
7 JUNE 2018	UCD Agriculture and Food Science Summer School* UCD Agriculture and Food Science Centre

* ADMISSION FREE BUT
PRE BOOKING IS ESSENTIAL

Registration for our events is via our
website at www.ucd.ie/agfood

W: www.ucd.ie/agfood

T: 01 7167194

E: agandfoodprogrammes@ucd.ie

** Visit www.agriaware.ie for more
information



UCD Agriculture and Food Science Programme Office

Agriculture and Food Science Centre,
University College Dublin, Belfield, Dublin 4

Tel: +353 (0) 1 716 7194

Email: agandfoodprogrammes@ucd.ie

Web: www.ucd.ie/agfood



Every attempt has been made to ensure that the information contained within this booklet is correct at the time of going to press, however the Agricultural Sciences Programme Board accepts no responsibility for any errors or omissions. New programmes are continually being introduced and existing programmes revised and therefore readers are advised to contact the UCD Agriculture and Food Science Programme Office for up to date programme details.

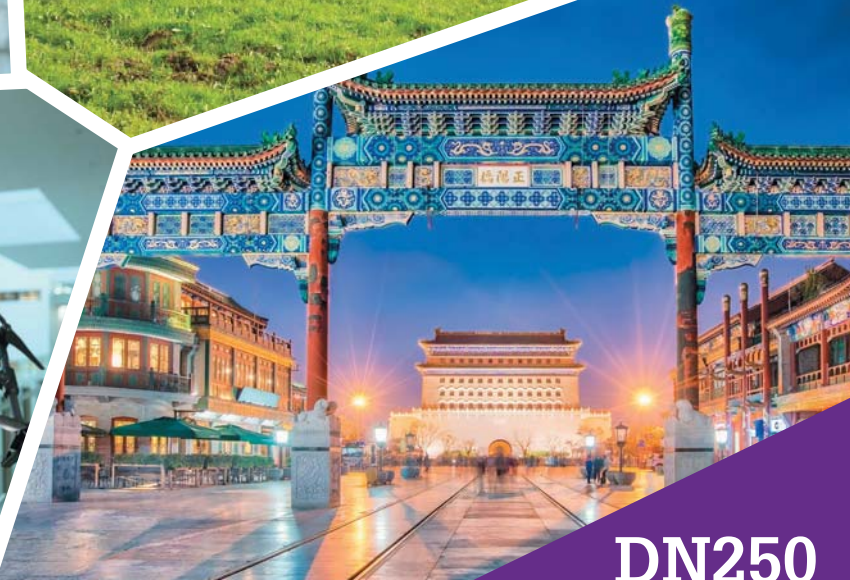


University College Dublin Agriculture, Food Science and Human Nutrition
UNDERGRADUATE COURSES

Agricultural Science



MAIN MENU





Feirm Liam
UCD Lyons

Why Agricultural Science?

From animal science to farm management and conservation and protection of the wider environment, from the animal feed industry to enterprise development and equine science and innovation, from crop protection and global agribusiness to alternative energy sources and food chain technology, Agricultural Science will provide you with the foundation to take your career anywhere in the world.

Our exciting range of programmes cover a wide variety of different subjects offering you a broad choice of lifestyle and career path.

If you are interested in Agricultural Science, but are not yet certain of which area to specialise in, you can select the No Preference (NPF) option on your CAO form. Then, during your first year at UCD, you can choose your area of specialisation. Once you receive an offer on the Agricultural Science programme (DN250) you will be guaranteed a place in any of the six specialisations from second year.

If, on the other hand, you know which of the following six programmes you'd like to specialise in, you can select ONE of these programmes on your CAO application.

The CAO codes for the degree specialisations offered are:

DN250 Agricultural Systems Technology

DN250 Animal & Crop Production

DN250 Animal Science

DN250 Animal Science - Equine

DN250 Food & Agribusiness Management

DN250 Food Business with Chinese Studies

If you select one of the above six programmes when applying via the CAO, you can still change between any of the above six programme options up until the end of year one.

Students interested in progressing to the Food Business with Chinese Studies degree must undertake one Chinese language module in semester one and transfer to the Food Business with Chinese Studies degree option by the end of semester one.



DN250

Agricultural Science

CAO Points

Average 2017 (Round 1) 492

Minimum 2017 (Round 1) 455

Minimum A Level:

AABb (Excluding Maths Bonus Points)

ABBc (Including Maths Bonus Points)

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.*

CONTENTS

Agricultural Science	1
Agricultural Systems Technology	3
Animal and Crop Production	4
Animal Science	5
Animal Science - Equine	6
Food and Agribusiness Management	7
Food Business with Chinese Studies	8

DN250 PROGRAMME PATHWAY MODELS

Agricultural Systems Technology	9
Animal and Crop Production	9
Animal Science	10
Animal Science - Equine	10
Food and Agribusiness Management	11
Food Business with Chinese Studies	11

WHAT WILL I STUDY?

All our programmes have a similar first year, designed to give you a strong foundation in the core sciences, maths and economics, which are needed for the rest of your studies. You will study subjects in

- Maths
- Chemistry
- Physics
- Cell and Plant Biology
- Agricultural Economics & Business
- A selection of Agricultural Science based subjects

Your subjects in year two will depend on which of the six programmes you decide to specialise in from year two. Second, third and fourth year subjects for each programme are detailed on pages 9, 10 and 11.



Agricultural Systems Technology

With a focus on design, numeracy and technology, students of Agricultural Systems Technology will be committed and engaged with farming and food production, and specifically with technology to enhance efficiency, sustainability and reliability. Technologies of interest range from computer systems, networks, data management and sensors through machinery systems to precision agriculture. This degree will appeal to students who wish to build their knowledge and skills-base to address the complexities of developing, deploying and managing technology for the agriculture and food sector.

Student View

Bill O'Neill | Year 2

My interest in the Agricultural Systems Technology programme stemmed from a combination of having an avid interest in engineering as well as being immersed in agriculture due to my farming background. The fact that a professional work placement and the opportunity to take a semester abroad was included really piqued my interest and helped to make my decision to study at UCD an easy one. I'm now looking forward to spending my first semester of third year at Purdue University in the USA, which I feel will give me a great insight in to the way technology is applied to agricultural enterprises in America, as well as experiencing a new culture and different type of college life. With all the current advances in agriculture and the increased dependence on precision and accuracy, I am glad to be studying in this area. The small class number makes the material very manageable to learn as it almost feels like a one-on-one with the course lecturers. In the future I wouldn't rule out the option of returning to my home farm, but I also feel there will be plenty of other employment opportunities in the sector and will leave me as a very employable graduate.



Staff View

Professor Nick Holden | Academic Programme Co-ordinator

Agriculture is becoming increasingly reliant on technology to achieve safe, sustainable food production. Concepts such as precision agriculture, smart farming and sustainable production require a new generation of agriculture experts, who like those who have gone before, have a thorough knowledge of soils, animals, crops and machinery, but in addition they also understand computer systems, networks, sensors, data management and programming. The industry requires graduates with expertise in both agricultural and data science. Our programme was developed in consultation with leading agricultural companies in Ireland. It is built on a foundation of basic and agricultural science as the starting point to explore agricultural technology (GIS, remote sensing, proximal sensing, precision agriculture, engineering technologies) and data science (programming, data, algorithms, databases and networks), which is then applied through both professional work experience and a capstone project. Graduates will be equipped with the skills that can open a diverse range of opportunities in the agri-food sector.



DN250 Agricultural Systems Technology

CAO Points

Average 2017 (Round 1) 492

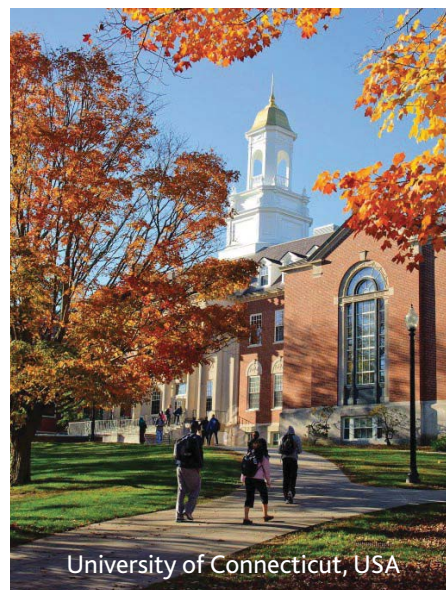
Minimum 2017 (Round 1) 455

Minimum A Level:

AABb (Excluding Maths Bonus Points)

ABBc (Including Maths Bonus Points)

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.*



University of Connecticut, USA

PROFESSIONAL WORK EXPERIENCE AND STUDY ABROAD OPPORTUNITIES

Five months Professional Work Experience takes place in year three of the Agricultural Systems Technology programme. A dedicated Professional Work Experience advisor will help ensure you gain relevant experience during this time. In recent years, increasing numbers of students on School of Agriculture and Food Science programmes have opted to complete Professional Work Experience internationally.

You can also study abroad for one semester, at universities including:

- University of Connecticut, USA
- Iowa State University, USA
- University of Queensland
- Purdue University, USA
- Michigan State University, USA

There are a limited number of scholarships available, on a competitive basis, which support some of the costs associated with studying and completing Professional Work Experience abroad.



DN250 Animal and Crop Production

CAO Points

Average 2017 (Round 1) 492

Minimum 2017 (Round 1) 455

Minimum A Level:

AABb (Excluding Maths Bonus Points)

ABBc (Including Maths Bonus Points)

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.*

Animal and Crop Production

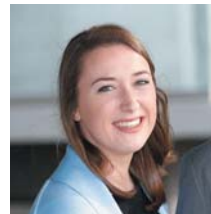
The science and business of producing Animals and Crops in an efficient but also sustainable and environmentally friendly manner is just one example of the challenges facing Agricultural Scientists, Farmers and Agribusinesses in Ireland, the EU and globally. As an Animal and Crop Production student you will have access to international experts that will help you develop:

- Knowledge of the growth, development and improvement of farm animals and crops
- The capacity to formulate animal and crop production systems that are economical and sustainable
- Communication and IT skills
- The capacity for lifelong learning so as to remain informed of evolving technical, economic and regulatory frameworks
- Knowledge of the agribusiness industry.

Student View

Karen McGrath | Year 4

Choosing Animal and Crop Production allowed me to keep my options open and enabled me to study an array of topics across both the animal and crop sectors including grassland management, animal nutrition and farm business management. Lectures are delivered by researchers who are experts in their fields, and their passion for teaching and agriculture is palpable. The School of Ag is renowned in UCD for having a strong community ethos - friendly faces, cups of tea and debates of rising or falling prices are not uncommon in the corridors. My experience of the course to date has exceeded all previous expectations and the friends and memories I have made will stay with me forever.



Graduate View

Eoin Lowry | Agribusiness Editor, Irish Farmers Journal

I can confidently say that the Agricultural Science degree at UCD was the catalyst that provided me with such great opportunities that I have experienced over the years. I don't believe there is a degree that offers so much diverse possibilities as a graduate. I studied animal and crop production simply because I had a passion for crops having grown up on a tillage farm. It has allowed me to experience farming, agribusiness and people first hand in more than 50 countries around the world including China, Nigeria, Saudi Arabia and Brazil. As part of my work today, networking and business relationships are critical and I still meet many great friends from Ag. As Agribusiness Editor with the Irish Farmers Journal, my science background is becoming more important as companies in the food sector are increasingly aware of the importance of healthy and nutritious food that is produced in an environmentally friendly and safe way. I am extremely proud to call myself an Ag.



Lincoln University

PROFESSIONAL WORK EXPERIENCE AND STUDY ABROAD OPPORTUNITIES

Professional Work Experience (PWE) takes place between January and August in Stage three. A dedicated PWE advisor will help ensure you gain experience in each of the relevant enterprises.

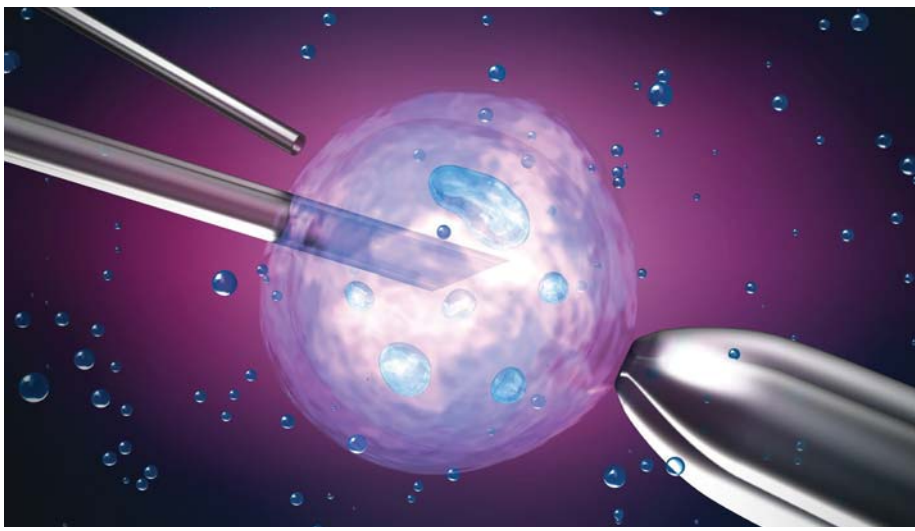
You can also study abroad for one semester, at universities including:

- Lincoln University, NZ
- Iowa State University, USA
- University of Illinois, USA
- Purdue University, USA
- Michigan State University, USA

There are a limited number of scholarships available, on a competitive basis, which support some of the costs associated with studying and completing PWE abroad.

"PWE is an excellent opportunity to gain experience and establish connections within the agricultural industry. The School's strong links and reputation with farms and companies across Ireland and the rest of the world made finding PWE placements easy and afforded me the opportunity to travel to New Zealand for four unforgettable months, where I worked on an 1100 dairy cow farm."

- Karen McGrath



DN250 Animal Science

CAO Points

Average 2017 (Round 1) 492

Minimum 2017 (Round 1) 455

Minimum A Level:

AABb (Excluding Maths Bonus Points)

ABbc (Including Maths Bonus Points)

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.*

Animal Science

Animal Science is connected with all aspects relevant to the development, growth and health of animals including breeding, nutrition, reproduction, genomics and physiology. At the core of Animal Science is the study of the applied sciences that are fundamental to understanding how animals function and also underpin the principles of livestock production. The degree will give you an appreciation of:

- The growth and development of domestic farm animals, and animal behaviour and welfare
- Animal production systems and how the components are integrated and managed in an environmentally friendly and sustainable manner
- The animal industry in Ireland, the context in which it operates and its relationship to animal industries in Europe and worldwide.

Student View

Rachel White | Year 4

Having grown up on a dairy farm with a passion for livestock there was never any question in my mind that Animal Science in UCD was the course for me. I wanted a course where I would get hands-on practical learning, meet new friends and have the chance to study abroad.



Animal Science has given me great knowledge of the agriculture industry in Ireland and internationally. I have studied a variety of animal science modules such as breeding, nutrition and reproduction while also dipping my toes in business, ag policy and communications to give me a thoroughly well rounded education. But it is the experience outside of the classroom that has made my four years at UCD so fantastic; PWE, farm visits and making friends for life through involvement in AgSoc. From day one in the Ag common room through to final year, 'Agriculture' is known as a family throughout the university and no other course comes anywhere close to the fun and support you experience here.

Student View

Michael Egan | Grassland Research Officer, Teagasc

I had a keen interest in agriculture from an early age and studying Agricultural Science in UCD was a natural choice for me. The course was very interesting and all the lecturers were extremely friendly and more importantly, passionate about their subject which resulted in engaging lectures and good discussions.



After my four years I decided to enter a postgrad, I was awarded a PhD between UCD and Teagasc; the basic skills I gained from my time at UCD in my undergraduate equipped me with the skills necessary to complete my PhD. The support I received from my UCD supervisors and admin staff was excellent and made for an easy transition in to postgraduate study. I would recommend anyone with an interest in Agricultural Science to consider attending UCD or go talk to the staff and find out more.



Kansas State University

PROFESSIONAL WORK EXPERIENCE AND STUDY ABROAD OPPORTUNITIES

Five months Professional Work Experience takes place in year three of the Animal Science programme. A dedicated Professional Work Experience advisor will help ensure you gain relevant experience during this time. In recent years, increasing numbers have opted to complete Professional Work Experience abroad, with New Zealand and USA particularly popular options.

You can also study abroad for one semester, at universities including:

- Cornell University, USA
- Kansas State University, USA
- University of Maryland, USA
- Lincoln University, NZ
- Purdue University, USA

There are a limited number of scholarships available, on a competitive basis, which support some of the costs associated with studying and completing Professional Work Experience abroad.

"I attended Cornell University on the Study Abroad Student Exchange Programme. Here I got to focus on my passion for dairy, I learned how to AI and ultrasound cows, formulate diets and visited farms all over the state. It was a life changing experience and I would encourage everyone to study or work abroad during their college careers." - Rachel White



DN250 Animal Science - Equine

CAO Points

Average 2017 (Round 1) 492

Minimum 2017 (Round 1) 455

Minimum A Level:

AABb (Excluding Maths Bonus Points)

ABBc (Including Maths Bonus Points)

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.*

Animal Science - Equine

Animal Science – Equine focuses on the applied sciences that underpin animal and veterinary biosciences, with emphasis on the horse. The degree provides the scientific knowledge and professional skills necessary for professional leadership roles within many aspects of the animal and equine science industries. You will learn about:

- The growth and development of farm animals, how they function, their behaviour and welfare
- Animal production systems and how the components are integrated and managed in an environmentally friendly manner
- The equine industry in Ireland, its global context and entrepreneurial opportunities
- Equine health, reproduction, genetics, breeding, nutrition and exercise physiology
- Advances and future directions in research with emphasis on equine genetics/genomics.

Student View

Liam Grogan | Year 4

I have always had an interest and passion for horses and this degree has only increased, by magnitudes, that enthusiasm. The degree deals with the scientific aspects of the equine industries and covers areas such as nutrition, reproduction, genetics and health and welfare. For my professional work experience I was lucky enough to spend five months working in a Japanese thoroughbred breeding stud with some of the best racehorses in the world. My time spent in Japan was one of the most enjoyable aspects of the course and I learned more than I could have imagined from that experience. Pursuing this degree in equine animal science has given me a great appreciation and capacity to understand the equine athlete in a scientific manner and vastly improved my knowledge of all things agricultural.



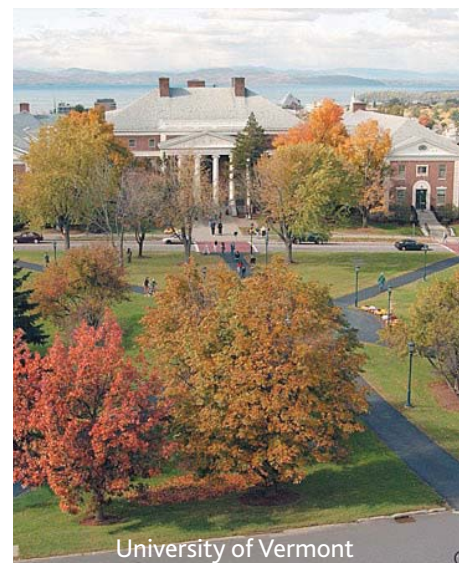
Student View

Heather Van Den Berg | Year 4

I chose to study Animal Science-Equine at UCD because of my profound interest in both science and horses, and I knew this degree would allow me to combine both interests. This course is jam-packed with science from the get-go, which has allowed me to get a basis in science as well as equine specific studies. Before starting off this degree, I was only interested in the leisure side of the equine industry, but while on Professional Work Experience, I focused on the Thoroughbred Industry, which has helped me to gain the necessary skills I will need for my future endeavours, including helping me to pursue my ambitions of becoming a Stud Manager, as well as with gaining valuable contacts and knowledge.



This degree has allowed me to develop in many ways and I would highly recommend it to anyone looking to study both horses and science simultaneously!



University of Vermont

PROFESSIONAL WORK EXPERIENCE AND STUDY ABROAD OPPORTUNITIES

A five month Professional Work Experience (PWE) placement is integral to your Animal Science-Equine degree and is an invaluable learning and networking opportunity. Exciting options include placements on stud farms in the Kentucky Bluegrass region and Japan, top show-jumping and eventing yards in Ireland, and with Tattersalls Ireland and Horse Sport Ireland. Students also have the opportunity to train towards a British Horse Society Assistant Instructorship certification at a leading Irish equestrian centre (additional training costs are involved).

You can also study abroad for one semester, at universities including:

- University of Vermont, USA
- Kansas State University, USA
- University of Queensland, Australia
- Purdue University, USA
- Michigan State University, USA



DN250 Food and Agribusiness Management

CAO Points

Average 2017 (Round 1) 492

Minimum 2017 (Round 1) 455

Minimum A Level:

AABb(Excluding Maths Bonus Points)

ABBc (Including Maths Bonus Points)

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact*

www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.

Food and Agribusiness Management

If you enjoy science and business, the Food and Agribusiness Management degree programme provides a unique opportunity to gain an understanding of both subjects. As a result, graduates are well placed to occupy leading roles in a variety of sectors. During the Food and Agribusiness Management degree, you will learn how the principles of economics and business management apply to farming, food production and marketing. You will gain an understanding of how the Irish and international food systems deliver food products and services that people want, and how farmers and food manufacturers can produce profitably, while also taking care of the natural environment.

The four year degree programme provides a unique opportunity to understand both business and science, focusing on the agri-food sector – Ireland's largest indigenous industry. You will develop skills that may be used across a wide range of jobs and experiences.

Student View

Liam Sammon | Year 4

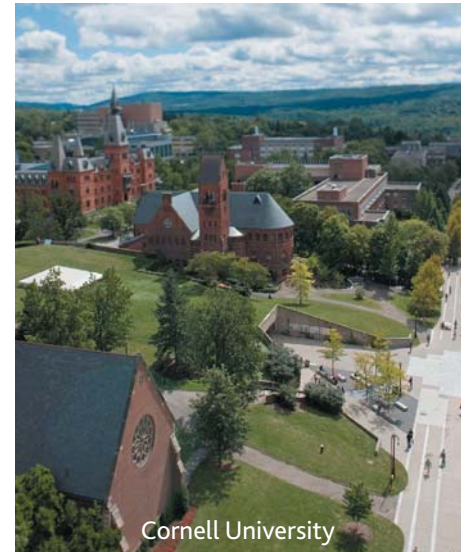
Starting out as an omnibus student was hugely beneficial in my college experience. Although I was not 100% sure on what major I would take, I knew my future career would be in the agricultural industry. In my third year, I was lucky enough to study abroad at the University of Illinois for one semester, followed by a PWE placement with Aurivo Co-op; an experience that allowed me to bring much of my learnings from the classroom to the workplace. I would highly recommend taking the opportunity to study abroad whilst also choosing a PWE placement that will be suited to your future career. Overall, Food and Agribusiness Management is a deeply rewarding degree with great opportunities to work with some of the biggest Irish agribusiness companies.



Graduate View

Mary Delaney | Head of Equine & Tillage Sales, Glanbia Agribusiness

I have always had a passion for agriculture and the agri food sector and I made a fantastic choice by selecting agricultural science in UCD. It has an excellent curriculum and provided an ideal foundation on which to build my career. I specialised in Agribusiness and Rural Development and on completion I joined the work force immediately. I am currently Head of Equine and Tillage Sales in Glanbia Ireland where I have worked for over a decade. Because of my very positive experience in UCD, I became an active member of the Agricultural Science Association (ASA) which looks after the professional interests of agricultural science graduates; it is also uniquely placed to provide the platforms for knowledge sharing, networking, discussion and debate on topics of critical importance to the agri-food sector. I joined the council of ASA in 2013 and I was appointed president of the ASA in September 2016 for a one year term.



Cornell University

PROFESSIONAL WORK EXPERIENCE AND STUDY ABROAD OPPORTUNITIES

Professional Work Experience in the food and agribusiness industry or related sectors is undertaken between January and August in year three of this programme. This helps you build your skills, apply the knowledge you have learnt and in many cases can lead to employment following graduation. In recent years, increasing numbers have opted to complete Professional Work Experience abroad.

You can also study abroad for one semester, at universities including:

- University of Illinois, USA
- Kansas State University, USA
- University of Queensland, Australia
- Purdue University, USA
- Cornell University, USA

There are a limited number of scholarships available, on a competitive basis, which support some of the costs associated with studying and completing Professional Work Experience abroad.

See Programme Pathway model for Food and Agribusiness Management on page 11.



DN250 Food Business with Chinese Studies

CAO Points

Average 2017 (Round 1) 492

Minimum 2017 (Round 1) 455

Minimum A Level:

AABb (Excluding Maths Bonus Points)

ABBc (Including Maths Bonus Points)

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.*

Food Business with Chinese Studies

The Food Business with Chinese Studies programme reflects the changing market landscape, and aims to develop graduates with the skills and talent urgently required by the Irish food industry. With Brexit and the uncertainty involving the UK market, export expansion to the emerging markets has critical strategic importance to the Irish food industry and the overall economy. The changing market landscape requires improved foreign language capability of Irish companies to facilitate access to new markets, and to help sustain and strengthen the modern agrifood and agribusiness companies.

Staff View

Dr Chenguang Li | Academic Programme Co-ordinator

Food and diet often have strong regional and cultural traits—it reflects what were available historically, and how the culture and society transform over time. Therefore, doing food business in a global context is not a simple task. It not only commands the practitioners to have the relevant food business knowledge and skill, but also the ability to understand and fulfil the specific needs of consumers in the target markets.



China, expected to become the first billion-euro market for Irish food and drink exports outside of the UK within the next two years, has become an exciting opportunity for young people aspiring to seek their career path in the global food business domain.

Our programme is designed to provide students with a quality education that combines the basic food science and business education with Chinese language and cultural training. Equipped with such knowledge, skills and ability, we believe there will be strong demands from the food industry for our future graduates.

Staff View

Professor Liming Wang | Director, UCD Confucius Institute for Ireland and Irish Institute for Chinese Studies

Food business and trade between China and Ireland has witnessed consecutive years of fast growth, as China is currently the second largest market for Irish pigmeat and dairy and remains within the top five most important markets in other agri-food sectors, such as seafood, prepared foods and sheepmeat. Ireland has also become the first EU country to have its beef import ban lifted by China.



China is expected to soon be the number one export destination of Irish food products, especially when considering that Ireland is facing tremendous challenges and uncertainties due to Brexit. Therefore, the talent demand is growing with prospect of rising demand from China for Irish food products. Students by taking this programme will be prepared with not just language skills, but also the business and cultural skills needed to succeed in the thriving food business sector with China.



STUDY ABROAD IN CHINA

Students will complete year three of their studies in China at one of UCD's partner Universities, where you will take intermediate or advanced Chinese language courses and a range of interesting and relevant modules.

There will be a limited number of language scholarship opportunities available on a competitive basis that will cover tuition fees and accommodation for either one or two semesters in China.

In addition to the benefit of a structured academic programme, students will also experience first hand the diverse culture of China and the vibrant economic growth that the second largest economy in the world has to offer.

Living and studying in a different cultural environment will provide students with an eye-opening and life changing experience that will also help you make friends and develop networks across the globe.

Programme Pathway Models

Agricultural Systems Technology

DN250

Year 1 Subjects

Animal Biology & Evolution
Introductory Chemistry
Mathematics
Physics
Ag Economics & Business
Intro to Biomolecules
Biosystems Engineering Design Challenge
Land Use & Environment
Cell & Plant Biology
Intro to Programming
Elective Modules

Year 2 Subjects

Agricultural Eng Principles
Food Physics
Animal Nutrition
Soil Science Basics
Principles of Crop Science
Health, Welfare & Safety
Principles of Animal Science
Food Macronutrients
Applied Biostatistics
Agricultural Microbiology
Elective Modules

Year 3 Subjects

Agri Mech: Engines & Crop Equip
Agri Mech: Hydraulics & Component
Biosys Eng Research Trends
Business Management
Data Structures & Algorithms
Exp Design & Data Analysis
GIS & Remote Sensing
Grass & Forage Production
Numerical Methods for Agriculture
Sensors and Sensing Systems
Professional Work Experience
Elective Module

Year 4 Subjects

Food Process Technology
Precision Agriculture
Databases & Information Systems
Experimental Project
Life Cycle Assessment
Waste Management
Quantitative Risk Assessment
Elective Modules

BAgrSc Honours

UCD Graduate Study

MSc Crops and Green Energy
MSc Public Health Engineering Technology
MEngSc Food Engineering
MSc Food Safety & Risk Analysis
MSc and PhD Research
MAgrSc Sustainable Agriculture and Rural Development
MAgrSc Environmental Resource Mgt

Career Opportunities

Technical Engineer
Teacher/Lecturer
Production Manager
Farm Manager
Operations Manager
Policy Analyst
Business Manager

Technical Sales Manager
Scientist
Environmental Consultant
Project Manager
Food Processing
Banker

Conversion or Complementary Courses

Postgraduate Diploma in Education
MSc Business Studies
Master of Business Administration
HDip Computer Science
Master of Accounting

MAIN MENU

Animal and Crop Production

DN250

Year 1 Subjects

Animal Biology & Evolution
Physics
Introductory Chemistry
Maths
Ag Economics & Business
Intro to Animal Science
Intro to Crop Science
Information Skills
Cell & Plant Biology
Intro to Biomolecules
Elective Modules

Year 2 Subjects

Agricultural Botany
Soil Science Basics
Genetics and Biotechnology
Agricultural Microbiology
Animal Nutrition I
Health, Welfare and Safety
Business Management
Applied Biostatistics
Buildings & Environment
Arable Crop Production
Agricultural Biochemistry
Elective Module

Year 3 Subjects

Animal Reproduction
Pests and Parasites
Soil Science Applications
Plant Diseases - Biology
Professional Work Experience
Elective Module

Year 4 Subjects

Grass and Forage Production
Animal Nutrition II
Professional Communications
Students visit UCD's Lyons Research Farm to get hands-on practical experience
Ruminant Animal Production
Non-ruminant Animal Production
Cereal Production
Farm Business Management
Root & Alternative Crop Production
Elective Modules

BAgrSc Honours

UCD Graduate Study

MAgrSc Agricultural Extension and Innovation
MAgrSc Sustainable Agriculture and Rural Development
MAgrSc Environmental Resource Mgt
MSc Crops and Green Energy
Walsh Fellowship Research Opportunities
MSc and PhD Research Opportunities

Career Opportunities

Agricultural Consultant
Teacher/Lecturer
Production Manager
Farm Manager
Journalism
Agricultural Inspector
Communications Manager

Project Management
Technical Engineer
Policy Analyst
Government Official
Business Manager
Technical Sales Manager
Scientist

Conversion or Complementary Courses

Postgraduate Diploma in Education
Graduate Veterinary Medicine
MSc Business Studies
Master of Business Administration
HDip Computer Science
Master of Accounting

Animal Science

DN250

Year 1 Subjects

Animal Biology & Evolution
Introductory Chemistry
Mathematics
Physics
Intro to Biomolecules
Ag Economics & Business
Intro to Animal Science
Information Skills
Cell & Plant Biology
Intro to Crop Science
Elective Modules

Year 2 Subjects

Genetics & Biotechnology
Animal Nutrition I
Applied Biostatistics
Business Management
Agricultural Microbiology
Soil Science Basics
Buildings & Environment
Agricultural Biochemistry
Health, Welfare and Safety
Elective Modules

Year 3 Subjects

Animal Reproduction
Animal Breeding
Animal Physiology
Animal Genomics
Agri-Env. Issues & Policy
Food Microbiology
Professional Work Experience
Exp Design & Data Analysis
Elective Modules

Year 4 Subjects

Animal Health, Behaviour & Welfare
Grass & Forage Production
Animal Nutrition II
Students visit UCD's Lyons Research Farm to get hands-on practical experience.
Ruminant Animal Production
Non-ruminant Animal Production
Farm Business Management
Professional Communications
Elective Modules

BAgrSc Honours

UCD Graduate Study

MSc Humanitarian Action
MAgrSc Sustainable Agriculture and Rural Development
MAgrSc Environmental Resource Mgt
MAgrSc Agricultural Extension and Innovation
Walsh Fellowship Research Opportunities
MSc and PhD Research Opportunities

Career Opportunities

Teacher/ Lecturer
Production Manager
Farm Manager
Journalism
Agricultural Consultant
Agricultural Inspector
Communications Manager
Embryologist
Nutritionist
Quality Assurance Officer
Technical Engineer
Policy Analyst
Government Official
Business Manager
Technical Sales Manager
Scientist

Conversion or Complementary Courses

Postgraduate Diploma in Education
Graduate Veterinary Medicine
MSc Business Studies
Master of Business Administration
HDip Computer Science
Master of Accounting

MAIN MENU

Animal Science - Equine

DN250

Year 1 Subjects

Animal Biology & Evolution
Introductory Chemistry
Physics
Mathematics
Ag Economics & Business
Intro to Animal Science
Information Skills
Cell & Plant Biology
Intro to Biomolecules
Intro to Crop Science
Elective Modules

Year 2 Subjects

Genetics and Biotechnology
Animal Nutrition
Agricultural Microbiology
Soil Science Basics
Agricultural Biochemistry
Principles of Animal Science
Business Management
Equine Industries
Food Macronutrients
Applied Biostatistics
Health, Welfare & Safety
Elective Module

Year 3 Subjects

Animal Reproduction
Animal Breeding
Animal Genomics
Animal Physiology
Agri-Env Issues & Policy
Professional Work Experience
Equine Reproduction and Breeding Management
Scientific Writing & Review
Equine Health & Husbandry
Elective Module

Year 4 Subjects

Equine Anatomy & Physiology of Exercise
Farm Business Management
Animal Health, Behaviour & Welfare
Equine Genetics
Equine Nutrition
Grass & Forage Production
Food & Ag Policy
Exp Design & Data Analysis
Professional Communications
Elective Modules

BAgrSc Honours

UCD Graduate Study

MAgrSc Sustainable Agriculture and Rural Development
Walsh Fellowship Research Opportunities
MSc and PhD Research Opportunities
MAgrSc Environmental Resource Mgt
MAgrSc Agricultural Extension and Innovation
MSc Food Safety & Risk Analysis
MSc Humanitarian Action

Career Opportunities

Equine Enterprise Management
Teacher
Marketing Manager
Equine leisure, recreation and tourism activities
Stud Management
Journalism
Lecturer
Equine Geneticist
Business Manager
Communications Manager
Technical Sales Manager
Equine Scientist
Government Official
Policy Analyst
Consultant

Conversion or Complementary Courses

Postgraduate Diploma in Education
Graduate Veterinary Medicine
MSc Business Studies
Master of Business Administration
HDip Computer Science
Master of Accounting
Darley International Student Programme

Food & Agribusiness Management

DN250

Year 1 Subjects

Animal Biology & Evolution
Introductory Chemistry
Physics
Mathematics
Ag Economics & Business
Intro to Food & Agbus Mgmt
Land Use & Environment
Cell & Plant Biology
Intro to Biomolecules
Elective Modules

Year 2 Subjects

Business Management
Business Law
Principles of Animal Science
Principles of Crop Science
Applied Economic Analysis
Applied Biostatistics
Food Macronutrients
Agricultural Microbiology
Health, Welfare & Safety
Elective Modules

Year 3 Subjects

Financial Planning and Control
Food Chain Integrity
Principles of Meat Science
Introduction to Econometrics
Professional Work Experience
Elective Modules

Year 4 Subjects

Farm Business Management
Agri-Environmental Economics
Professional Communications
Research Project
Food and Agricultural Policy
IT and E-Business
International Food Marketing
Enterprise Development
Food & Agribusiness Strategy
Agri-Taxation
Elective Module

BAgrSc Honours

UCD Graduate Study

MSc Humanitarian Action
MAgrSc Sustainable Agriculture and Rural Development
Walsh Fellowship
MSc and PhD Research
MAgrSc Environmental Resource Mgt
MSc Food Safety & Risk Analysis
MSc Food, Nutrition & Health
MSc Food Business Strategy

Career Opportunities

Business Manager
Teacher/Lecturer
Marketing Manager
Farm Manager
Journalist
Project Management
Production Manager
Communications Manager

Technical Sales Manager
Business Development Officer
Government Official
Policy Analyst
Agricultural Consultant
Quality Assurance Officer
Market Analyst
Stockbroker

Conversion or Complementary Courses

Postgraduate Diploma in Education
MSc Business Studies
Master of Business Administration
HDip Computer Science
Master of Accounting

MAIN MENU

Food Business with Chinese Studies

DN250

Year 1 Subjects

Intro to Food and Agbus Mgmt
Ag Economics and Business
Mathematics
Chemistry
Biology
Physics
Chinese Language Experience
Elementary Written Chinese
Elementary Spoken Chinese

Year 2 Subjects

Business Management
Business Law
Applied Economic Analysis
Financial Planning and Control
Soil Science
Intermediate Spoken Chinese 1 and 2
Intermediate Written Chinese 1 and 2
Optional Modules

Year 3 Subjects

One year Study Abroad at UCD partner university in China

Year 4 Subjects

Food and Agribusiness Strategy
International Food Marketing
Agricultural Policy
Enterprise Development
Advanced Chinese 1 and 2
Chinese Economy
Doing Business in China
Optional Modules

BAgrSc Honours

UCD Graduate Study

MSc Humanitarian Action
MAgrSc Sustainable Agriculture and Rural Development
Walsh Fellowship
MSc and PhD Research
MAgrSc Environmental Resource Mgt
MSc Food Safety & Risk Analysis
MSc Food, Nutrition & Health
MSc Food Business Strategy

Career Opportunities

Business Manager
Teacher/Lecturer
Marketing Manager
Farm Manager
Journalist
Project Management
Production Manager
Communications Manager

Business Development Officer
Government Official
Policy Analyst
Global Markets Executive
Agricultural Consultant
Quality Assurance Officer
Market Analyst
Stockbroker

Conversion or Complementary Courses

Postgraduate Diploma in Education
MSc Business Studies
Master of Business Administration
HDip Computer Science
Master of Accounting



UCD Agriculture and Food Science Programme Office

Agriculture and Food Science Centre, University College Dublin, Belfield, Dublin 4

Tel: +353 (0) 1 716 7194

Email: agandfoodprogrammes@ucd.ie

Web: www.ucd.ie/agfood



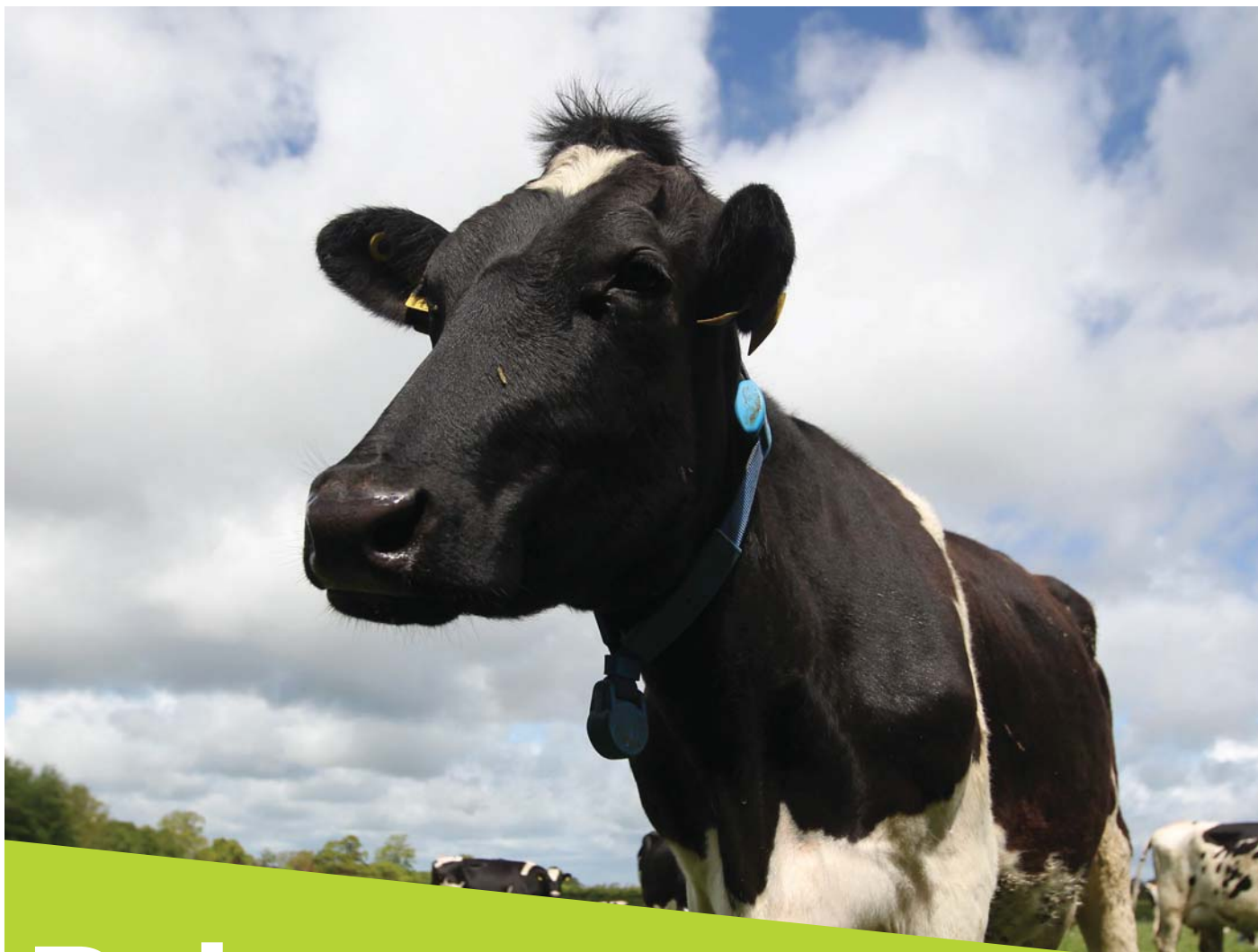
Every attempt has been made to ensure that the information contained within this booklet is correct at the time of going to press, however the Agricultural Sciences Programme Board accepts no responsibility for any errors or omissions. New programmes are continually being introduced and existing programmes revised and therefore readers are advised to contact the UCD Agriculture & Food Science Programme Office for up to date programme details.



UNDERGRADUATE COURSES

Dairy Business





Dairy Business

Why Dairy Business?

The Irish dairy industry makes a major contribution to the Irish economy adding €3.5 billion to food exports and employing approximately 18,000 dairy farmers and a further 4,000 employees at farm level, 8,500 employees in the processing industry and supporting an additional 4,500 positions in ancillary services.

The dairy industry is experiencing significant change at the present time with expansion in farm and herd size, accelerated by the abolition of quotas in 2015. Since 2013, Ireland has increased milk production by 23%. This programme is designed to equip future leaders in the dairy industry with the necessary scientific, technical and business skills to cope with this business and enterprise expansion.

DN252

Dairy Business

CAO Points

Average 2017 (Round 1) 470

Minimum 2017 (Round 1) 451

Minimum A Level:

AABb (Excluding Maths Bonus Points)

ABBc (Including Maths Bonus Points)

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.*



Student View

Emma Gilsenan | Year 3

I've had an interest in farming from a young age but wouldn't necessarily have thought that my future career would lie in agriculture. That said, I knew quota abolishment was coming down the tracks which would mean a new era for the dairy industry so I decided to choose the Dairy Business programme. I wasn't quite sure what to expect from the course or career-wise, but having just completed my third year, I know I have made the right choice.



Stage 3 really was the highlight of the course for me. My classmates and I got the chance to travel to New Zealand for Professional Work Experience where I feel I can speak for everyone in saying we were all amazed by the sheer scale of the dairy industry there. In the second semester of Stage 3 we spent our time in Teagasc's Moorepark Dairy Research Centre. Here we had the opportunity to learn from the top researchers in the business and also visited farms of some of the best dairy farmers in the country.

My advice would be not to think twice about coming to UCD, I would highly recommend the course to anyone with an interest in the dairy industry. UCD is unique in how agricultural students come together like one big family, which makes your college experience so much more enjoyable.

Student View

Paul Tobin | Year 4

Studying Dairy Business was a thoroughly enjoyable experience for me. I come from a dairy background although I wasn't thinking of farming full-time straight after college. I loved farming and business subjects in school and UCD offered me the best mix to further both of these interests in college. I chose Dairy Business because it offered me the practical skills needed to run a farm successfully while complementing a range of business modules that could be used to further a career in the agri-food industry.



The opportunity to complete Professional Work Experience in New Zealand is priceless and coming back to finish the year in Moorepark made Stage 3 an exceptional year in college. This course offers you the chance to work with the best in the dairy industry by learning from researchers and working with progressive dairy farmers. The journey from first to fourth year in UCD is simply unforgettable and being part of the Ag family makes it a seamless transition from secondary school to college.

For me the best part of this course is the options it presents you with at the end of the four years. I have decided to start a career as an accountant while also managing the dairy farm with my father and studying this course has given me the confidence and skills to do both. I would highly recommend this course to anyone who is looking towards a career in the dairy industry at any level. UCD offers a very high standard of education that will be recognised wherever you want to go.



Professional Work Experience and Semester at Teagasc, Moorepark

Professional Work Experience (PWE) takes place between July and December of year three, which offers students the opportunity to travel to New Zealand during the busiest time of year in the dairy farming calendar. Students can apply the skills and knowledge gained whilst also receiving exposure to cutting edge technologies.

For semester two of third year students will attend Teagasc Moorepark Animal & Grassland Research Centre in Co Cork, studying areas which include Grassland Management and Nutrition; Dairy Systems; Applied Breeding and Fertility; Herd Health, etc. This is a unique opportunity for students to interact with leading dairy science researchers and get to grips with the practical elements of running a dairy enterprise.

CAREER PATHWAY

Dairy Business

DN252

Year 1 Subjects

Animal Biology & Evolution
Ag Economics and Business
Introductory Chemistry
Cell & Plant Biology
Mathematics
Intro to Animal Science
Information Skills
Intro to Food & Agribus Mgmt
Introduction to Management
Business Management Simulation
Elective Modules

Year 2 Subjects

Animal Reproduction
Soil Science Basics
Applied Biostatistics
Accounting for Non-Business Students
Business Law
Animal Nutrition 1
Principles of Dairy Production
Health, Welfare & Safety
Marketing: Firms, Customers & Society
Global Operations & SCM
Elective Modules

Year 3 Subjects

JULY-DECEMBER	
Professional Work Experience Students encouraged to travel to New Zealand	
JAN-MAY	
Modules undertaken at Teagasc, Moorepark, Co. Cork include:	
Herd Health and Milk Quality	
Grassland Management & Applied Dairy Nutrition	
Applied Dairy Breeding and Fertility	
Dairy Systems	
Dairy Business Project	

Year 4 Subjects

Farm Business Management
Food and Agribusiness Strategy
Agri-Env. Issues and Policy
Leadership and Change Management
Agricultural Policy
Animal Nutrition II
Business Strategy
Professional Communications
Exp Design and Data Analysis
Nutrient Management
Elective Modules

BAgrSc Honours

UCD Graduate Study

MAGrSc Sustainable Agriculture and Rural Development
Walsh Fellowship Research Opportunities
MSc and PhD Research Opportunities
MAGrSc Environmental Resource Mgt
MSc Food Business Strategy
MAGrSc Agricultural Extension and Innovation
MSc Food Safety & Risk Analysis

Career Opportunities

Farm Manager	Communications Manager
Lecturer/Teacher	Technical Sales Manager
Agricultural Consultant	Scientist
Marketing Manager	Government Official
Journalism	Policy Analyst
Business Manager	Consultant

Conversion or Complementary Courses

Postgraduate Diploma in Education
Graduate Veterinary Medicine
MSc Business Studies
Master of Business Administration
HDip Computer Science
Master of Accounting



UCD Agriculture and Food Science Programme Office

Agriculture and Food Science Centre,
University College Dublin, Belfield, Dublin 4

Tel: +353 (0) 1 716 7194

Email: agandfoodprogrammes@ucd.ie

Web: www.ucd.ie/agfood



Every attempt has been made to ensure that the information contained within this booklet is correct at the time of going to press, however the Agricultural Sciences Programme Board accepts no responsibility for any errors or omissions. New programmes are continually being introduced and existing programmes revised and therefore readers are advised to contact the UCD Agriculture & Food Science Programme Office for up to date programme details.

Agri-Environmental Sciences



University College Dublin Agriculture, Food Science and Human Nutrition

UNDERGRADUATE COURSES

Agri- Environmental Sciences

MAIN MENU



DN253



Agri-Environmental Sciences

Why Agri-Environmental Sciences?

Agriculture has an increasingly recognised global impact and responsibility for the quality of the natural environment. In turn, the security of food production systems at both Irish and global levels depends upon the quality of management of natural processes and resources in farming and food production systems. The Agri-Environmental Sciences programme is designed to equip its graduates with the knowledge and skills needed for progressive development of improved sustainability in farming and food production systems.

On completion of this specialist programme, you will have:

- A wide knowledge of the applied agricultural and environmental sciences that underpin sustainable agriculture, food production and rural land use systems
- A comprehensive understanding of rural environmental issues in Ireland, the EU and worldwide
- Practical experience of agri-environmental research through completion of a supervised final year project on your chosen topic
- Scientific and environmental management skills to contribute to future farming and land use industries, as either a scientist, consultant or policy-maker
- Interpersonal and professional skills required to follow your chosen career path.

DN253

Agri-Environmental Sciences

CAO Points

Average 2017 (Round 1) **440**

Minimum 2017 (Round 1) **419**

Minimum A Level:

ABBe (Excluding Maths Bonus Points)

BBBe (Including Maths Bonus Points)

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.*



Staff Profile

Dr Saoirse Tracy | UCD School of Agriculture and Food Science

Dr. Saoirse Tracy is a Lecturer in Applied Plant Biology. She researches soil-plant interactions and the wider consequences they have for the environment. She is particularly interested in the zone of soil around a root we call the rhizosphere, because although it is out of sight, this interface is crucial for plant performance in the field.



She has recently set up a facility at the UCD Rosemount Experimental Research Station to use specialist techniques to look at roots in soil. A greater understanding of how plant roots interact with soils will be key to meeting some of the food challenges we face in the 21st Century. It is often said that root systems will be key to the second green revolution, so a greater understanding of what is going on belowground should help farmers' maintain yields aboveground. Dr. Saoirse Tracy teaches into several plant and soil science modules and has created new modules centred on her research area of soil-plant interactions.

Graduate View

Patricia Torpey | Agricultural Inspector, Department of Agriculture, Food and the Marine

My decision to study Agri-Environmental Sciences at UCD meant that I could combine my love of science with my love of farming and the natural environment. I graduated in 1995 and went on to complete a PhD which was focused on the impact of agriculture on water.



I've been working with the Department of Agriculture, Food and the Marine (DAFM) for the past 18 years and the majority of that time has been spent contributing to and developing policies that improve farming efficiencies, therefore strengthening the relationship between productive farming and conservation of our water environment. These include the Nitrates Regulations, EIA (Agriculture) Regulations, agri-environmental schemes, freshwater pearl mussel conservation, agri-environmental indicators and river basin planning. I collaborate closely with many national stakeholders including Teagasc, the Environmental Protection Agency, Inland Fisheries Ireland, National Parks and Wildlife Service, a number of government departments and farming organisations; I also represent the DAFM internationally at EU and OECD levels. I recently established a 'Water Network' within the DAFM, the aim of which is to guide, co-ordinate and communicate what the DAFM and its Agencies are doing to protect and enhance water. I am involved in monitoring progress under Food Wise 2025, the vision for growth in the agriculture sector in Ireland, to ensure that we are maximising our economic competitiveness, while at the same time ensuring environmental protection.

My degree in Agri-Environmental Sciences was an important stepping stone for me to a very enjoyable and rewarding career in a key sector of Ireland's economy.



University of Connecticut

Professional Work Experience and Study Abroad Opportunities

Five months Professional Work Experience takes place in third year of the Agri-Environmental Sciences programme. Teagasc, the Department of Agriculture, Food and the Marine, the Environmental Protection Agency, the National Parks & Wildlife Service, local authorities and commercial companies are popular destinations to conduct Professional Work Experience. In recent years, increasing numbers have opted to complete Professional Work Experience abroad.

You can study abroad for one semester, at universities including:

- University of California, USA
- University of Connecticut, USA
- University of Queensland
- Purdue University, USA
- Michigan State University, USA

There is a limited number of scholarships available, on a competitive basis, which support some of the costs associated with studying and completing Professional Work Experience abroad.

CAREER PATHWAY

Agri-Environmental Sciences

DN253

Year 1 Subjects

Animal Biology & Evolution
Introductory Chemistry
Physics
Mathematics
Land Use & Environment
Information Skills
Cell and Plant Biology
Intro to Biomolecules
Intro to Food & AgBus Mgmt
Elective Modules

Year 2 Subjects

Diversity in the Rural Landscape
Agricultural Botany
Soil Science Basics
Applied Zoology
Agricultural Microbiology
Principles of Animal & Crop Science
Applied Biostatistics
Genetics and Biotechnology
Env Biology and Ecology
Health, Welfare and Safety
Elective Module

Year 3 Subjects

Agri-Env. Issues and Policy
Pests and Parasites
Soil Science Applications
Systems Ecology
Plant Diseases: Biology
Scientific Writing and Review
Professional Work Experience
Agrichemicals & Environment
Climate, Carbon & Soil
Elective Modules

Year 4 Subjects

Nutrient Management
Plant Pathology & Biotechnology
Pest Management
Environmental Management
Grass and Forage Production
Research Project
Elective Modules

BAgrSc Honours

UCD Graduate Study

MSc Wildlife Conservation & Mgt
MAgrSc Rural Environmental Conservation and Management
MAgrSc Environmental Resource Mgt
MSc and PhD Research
MAgrSc Agricultural Extension and Innovation
MAgrSc Sustainable Agriculture & Rural Development

Career Opportunities

Environmental Consultant	Technical Engineer
Teacher	Policy Analyst
Farm Manager	Government Official
Journalist	Parks Superintendent
Agricultural Consultant	County Heritage Officer
Agricultural Inspector	Scientist
Lecturer	Science Communications

Conversion or Complementary Courses

Postgraduate Diploma in Education
MSc Business Studies
Master of Business Administration
HDip Computer Science
Master of Accounting

MAIN MENU



UCD Agriculture and Food Science Programme Office

Agriculture and Food Science Centre,
University College Dublin, Belfield, Dublin 4
Tel: +353 (0) 1 716 7194
Email: agandfoodprogrammes@ucd.ie
Web: www.ucd.ie/agfood



Every attempt has been made to ensure that the information contained within this booklet is correct at the time of going to press, however the Agricultural Sciences Programme Board accepts no responsibility for any errors or omissions. New programmes are continually being introduced and existing programmes revised and therefore readers are advised to contact the UCD Agriculture & Food Science Programme Office for up to date programme details.

Food Science



University College Dublin Agriculture, Food Science and Human Nutrition

UNDERGRADUATE COURSES

Food Science



MAIN MENU

DN261



Food Science

Why Food Science?

Food Science focuses on the physical, chemical and biological characteristics of food along the production chain from farm to plate. If you choose to specialise in Food Science, you will develop your scientific knowledge of how to produce high quality, safe and healthy foods.

As a food scientist you will have a role to play in all aspects of the food chain from production to processing, storage and marketing. This unique degree ensures you have a broad knowledge of food production and processing, thus gaining the scope and opportunity to develop different types of food products.



The Food Science Programme at UCD is accredited by the Institute of Food Technologists.

DN261

Food Science

CAO Points

Average 2017 (Round 1) 487

Minimum 2017 (Round 1) 466

Minimum A Level:

AAAc (Excluding Maths Bonus Points)

AABd (Including Maths Bonus Points)

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.*



Student View

Karina Gannon | Year 4

If, like me, you share an interest in the food industry, in food production and innovation, then Food Science in UCD is the right course for you.

While first and second year contain a broad range of subjects, the course becomes more specific in third and fourth year, with subjects dealing closely with areas such as dairy and meat products. The work placement element of the course in third year allows students to apply the knowledge gained in the class to an actual food industry setting. Field trips to companies such as Baileys, Valeo foods and Dawn Foods supported the materials taught in class and gave students a practical setting to the theory. The Product Development module and Final Year Project allowed me to develop and work on my own ideas, which along with the mix of class-based learning and work placement, provides the essential skills and knowledge necessary for the food industry.

I would 100% recommend this programme to anyone with an interest in food production, innovation and processing as the broad range of subjects taught really cater for all aspects of the food industry.



Graduate View

Eimear O'Donnell | Assistant Marketing Manager, Kerry

UCD's Food Science programme gave me the perfect foundation in science and, through practical lab sessions, made it applicable to today's innovative industry. The opportunities to select electives each semester meant I could focus on topics within food and agriculture that were of interest to me. I was interested in the area of nutrition, which is becoming increasingly important in food technology and development. Through a combination of elective modules and the core programme, I developed an understanding of the role of food in diet and health.

The School's heritage in agriculture gives you an appreciation of primary production and the foundations of food. As you progress through the degree, you will build an understanding of the composition of macro and micro nutrients. The combination of lectures, laboratory work and theoretical case studies gives you a complete understanding of where food begins, how it is formed and how it will react through different processing mechanisms.

The great link between the programme and industry becomes apparent when you complete Professional Work Experience as an integrated part of your degree. Enabling you to not only gain experience in a professional work environment and build relationships within the industry, but also to put theory into application. My placement has stood to me in my professional career since and opened my eyes to the relevance of my degree in industry.



Cornell University, USA

Professional Work Experience and Study Abroad Opportunities

A five month professional work experience (PWE) placement is integral to your Food Science degree and is an invaluable learning and networking opportunity.

You can also study abroad for one semester, at universities including:

- University of California, USA
- Cornell University, USA
- University of Queensland, Australia
- Iowa State University, USA
- Michigan State University, USA

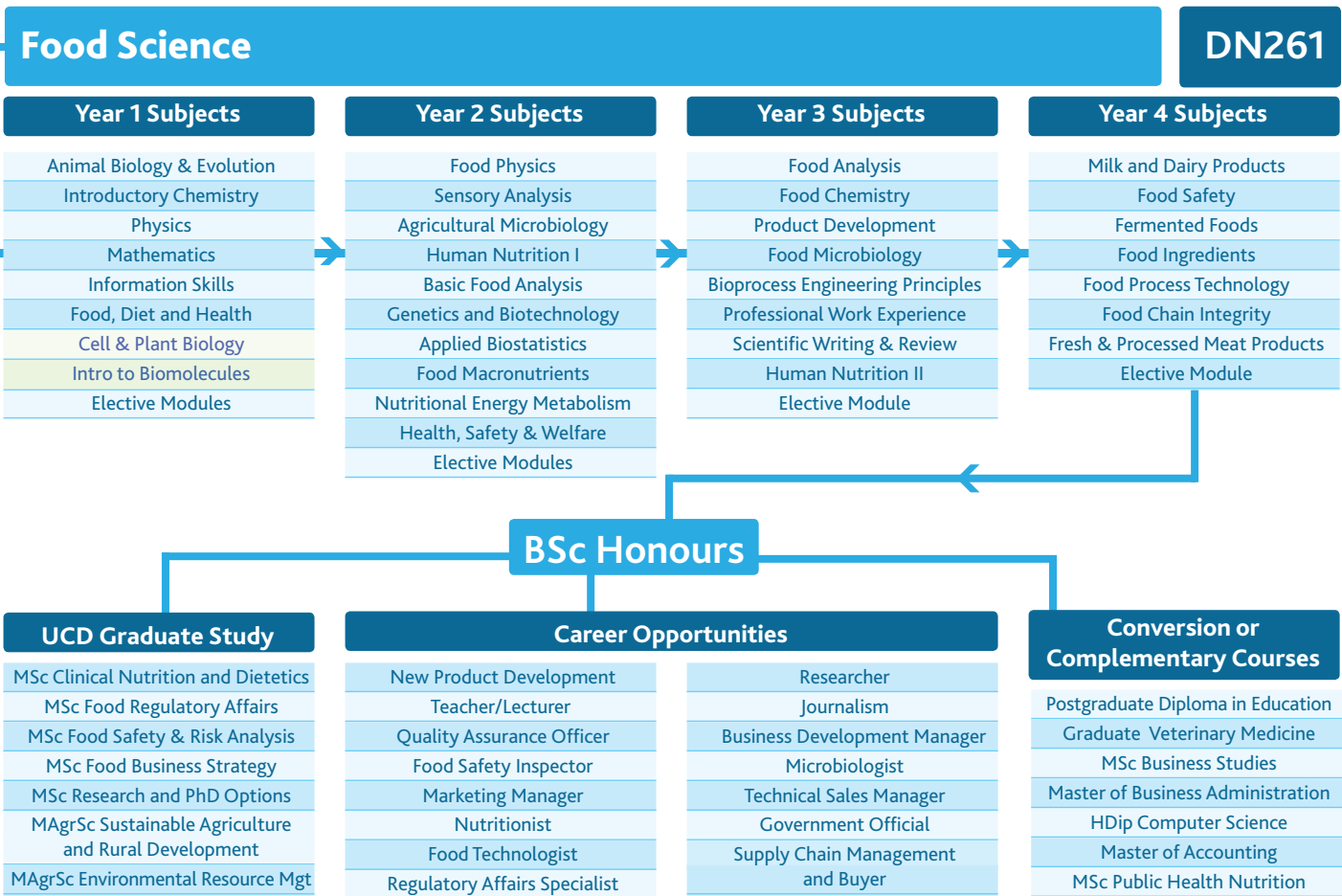
There are a limited number of scholarships available, on a competitive basis, which support some of the costs associated with studying and completing Professional Work Experience abroad.

"I was fortunate enough to spend five months on the Study Abroad Exchange Programme to Michigan State University as part of my degree, which was an incredible experience and allowed me to observe the food industry from an American perspective."

- Karina Gannon

CAREER PATHWAY

MAIN MENU



UCD Agriculture and Food Science Programme Office

Agriculture and Food Science Centre,
University College Dublin, Belfield, Dublin 4

Tel: +353 (0) 1 716 7194

Email: agandfoodprogrammes@ucd.ie

Web: www.ucd.ie/agfood



Every attempt has been made to ensure that the information contained within this booklet is correct at the time of going to press, however the Agricultural Sciences Programme Board accepts no responsibility for any errors or omissions. New programmes are continually being introduced and existing programmes revised and therefore readers are advised to contact the UCD Agriculture & Food Science Programme Office for up to date programme details.

Human Nutrition



University College Dublin Agriculture, Food Science and Human Nutrition

UNDERGRADUATE COURSES

Human Nutrition



MAIN MENU

DN262



Human Nutrition

Why Human Nutrition?

Nutrition – the interaction between food and health – is becoming increasingly important in society. This programme covers many aspects of nutritional sciences, from biochemistry to molecular and public health nutrition, and also includes topics such as nutrition communication and food regulatory affairs.

On graduating you will be able to apply your knowledge to many different areas of the food and health industry.



The Human Nutrition Programme at UCD is accredited by the Association for Nutrition.

DN262 Human Nutrition

CAO	Points
Average 2017	(Round 1) 532
Minimum 2017	(Round 1) 509
Minimum	A Level:
A*AAa (Excluding Maths Bonus Points)	
AAAC (Including Maths Bonus Points)	

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.*

Student View

Brionn Coffey | Year 3

A keen interest in health, a love for sport and the relation between the two was the seed of my desire to study Human Nutrition in UCD. One of the best things about this degree is its broad nature, since beginning I have been exposed to so many more intriguing areas of nutrition such as nutrition research, food metabolism and infant nutrition.



Everyone in the degree is really close and with only 28 students you quickly form a great group of friends. In first year you spend a lot of time with students across other faculties such as agricultural science and general science letting you meet a more diverse range of people. UCD is not as big and daunting as some make it out to be. I came from a small school of 700 students in Wexford but through the degree and involvement in the college rugby set-up, I quickly found myself spotting familiar faces around campus.

Possibly the best thing about this degree is third year, where you get to work for 10 months in Ireland or abroad. I was lucky enough to work in Danone Nutricia Early Life Nutrition in Dublin where I worked in the area of infant nutrition. During placement you get to practice the knowledge you have acquired in your previous two years studying while also developing a strong professional network and resumé. If you're like I was, searching through the CAO website and college booklets in hope of finding that perfect degree, have an interest in science or health and want to graduate from a leading university, then put this course down. You won't regret it!

Graduate View

Deirdre O'Shea | Executive Director, Agri Aware

My interest and passion for food and how this food impacts on our health led me to study Human Nutrition at UCD. The course provided the opportunity to learn about a wide array of topics from food safety and regulation to clinical and public health nutrition.



As part of the Human Nutrition degree programme, the entire third year consists of work placement with the opportunity to work abroad. I spent 10 months working in a teaching hospital in Sheffield where I worked on an intervention trial investigating the impact of probiotics on the gut microflora of male volunteers. This was a great opportunity to get a flavour for working with a team of researchers and professionals in the nutrition field and gain valuable insights into career paths available to nutrition graduates.

This degree provides graduates with well-rounded expertise that can lead to a career in many diverse areas including public health, industry, research, to name but a few. Because nutrition is something that impacts all of us and we are becoming more and more conscious of how food impacts on our bodies, there is a growing demand for graduates from this discipline.

Aside from the academic education, UCD has so much to offer in terms of extra-curricular activities and certainly for me, as an avid GAA player, this was a huge highlight of my time in UCD. There are many clubs and societies to suit everyone's needs and I would strongly advise students to get involved to further enhance your experience in UCD. I would highly recommend the Human Nutrition programme in UCD for those with an interest in science, food and how food impacts on human health.



PROFESSIONAL WORK EXPERIENCE

A year of professional work experience in third year gives you a unique opportunity to graduate with the skills necessary to enter the working world. This work placement also provides an excellent opportunity to gain practical experience and broaden your appreciation of the food industry or nutrition related employment. You can expect to find employment in national and international companies and government departments associated with the food industry or nutrition, or within world-class research groups in international or domestic universities.

"Possibly the best thing about this degree is third year, where you get to work for 10 months in Ireland or abroad. I was lucky enough to work in Danone Nutricia Early Life Nutrition in Dublin where I worked in the area of infant nutrition. During placement you get to practice the knowledge you have acquired in your previous two years studying while also developing a strong professional network and resumé."

- Brionn Coffey

CAREER PATHWAY

Human Nutrition

DN262

Year 1 Subjects

Principles of Cell Biology
Introductory Chemistry
Physics
Mathematics
Microbiology
Cell Biology & Genetics
Human Nutrition I
Intro to Biomolecules
Physiology for Nutrition
Elective Modules

Year 2 Subjects

Food Macronutrients
Nutrition Research Methods
Molecular basis of disease
Human Nutrition II
Basic Food Analysis
Nutritional Energy Metabolism
Nutrition & Health
Data Modelling for Science
Health, Safety & Welfare
Elective Modules

Year 3 Subjects

One year Professional Work Experience

Year 4 Subjects

Food Regulation
Nutrition and Communication
Molecular Nutrition
Clinical Nutrition
Food Safety
Public Health Nutrition
Human Nutrition Project
Nutritional Metabolism
Elective Modules

BSc Honours

UCD Graduate Study

MSc Clinical Nutrition and Dietetics
MSc Public Health Nutrition
MSc Research and PhD Options
MSc Food Regulatory Affairs
MSc Food Safety & Risk Analysis
MSc and PhD Research Opportunities
MEngSc Food Engineering
MSc Food Business Strategy

Career Opportunities

Public Health/Community Nutritionist
Sports Nutritionist
Management Nutritionist
Teacher
Scientist
Marketing Manager
Health Promotion

Quality Assurance
Food Safety
Journalism
Lecturer
Business Manager
Microbiologist
Government Official
R&D Technologist

Conversion or Complementary Courses

Graduate Veterinary Medicine
Graduate Medicine
Postgraduate Diploma Education
MSc Business Studies
Master of Business Administration
Master of Accounting

MAIN MENU



UCD Agriculture and Food Science Programme Office

Agriculture and Food Science Centre,
University College Dublin, Belfield, Dublin 4

Tel: +353 (0) 1 716 7194

Email: agandfoodprogrammes@ucd.ie

Web: www.ucd.ie/agfood



Every attempt has been made to ensure that the information contained within this booklet is correct at the time of going to press, however the Agricultural Sciences Programme Board accepts no responsibility for any errors or omissions. New programmes are continually being introduced and existing programmes revised and therefore readers are advised to contact the UCD Agriculture & Food Science Programme Office for up to date programme details.

Forestry



University College Dublin Agriculture, Food Science and Human Nutrition

UNDERGRADUATE COURSES

Forestry



MAIN MENU

DN271



Forestry

Why Forestry?

Forestry is the science, art and profession of managing forests. Foresters manage and create forests in sustainable and environmentally friendly ways to provide a variety of ecosystem services including timber, biodiversity, carbon sequestration, recreation, conservation and aesthetics.

You will discover how the different components of a forest – the trees, soils, water, climate, flora and fauna interact with each other and are affected by human use. The protection and enhancement of biodiversity, soils and air quality are all highly relevant in the creation and management of forests today.

Other aspects of modern forest management which are also addressed in this programme include:

- Carbon sequestration
- Renewable energy resources
- Multifunctional forestry
- Bio-complexity
- Sustainable forest management
- Social and urban forestry
- Adaptation for and mitigation of climate change
- The conservation of genetic resources.

DN271 Forestry

CAO Points

Average 2017 (Round 1) **370**

Minimum 2017 (Round 1) **314**

Minimum A Level:

CCCd (Excluding Maths Bonus Points)

CCC (Including Maths Bonus Points)

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.*



Graduate View

Leighton Hoban | Country Manager (Belize), Fyffes

Despite being raised in inner city Dublin, when the time came to choose my undergraduate degree I was drawn towards a career path through forests and fields rather than office desks and filing cabinets. After some research during my final year of secondary school, I felt the UCD School of Agriculture and Food Science, particularly Forestry, appealed to me the most.

The Forestry course progressively delivers material in a way that melds the subjects seamlessly providing a solid foundation in relevant theory and practical skills at the end of the four years. From basic biology and chemistry subjects in the early years to complex GIS mapping and management theory in the final years, the array of subjects that will be taught during the course prepares you for many different career opportunities that may arise, even banana production! PWE will encourage you to go beyond your comfort zone within the college walls to a real working environment where you have to rely on your own capabilities. Through the School's many contacts and support networks, your options are limitless as to where you can conduct your PWE, with Madagascar, working for the WWF, being my chosen location.

Although the Forestry course in UCD is known for producing high calibre foresters in Ireland, the world is more accessible day-by-day and Forestry in UCD will equip you with the knowledge and skills to succeed wherever your chosen career path takes you.

Graduate View

Mary Clifford | Business Analyst, Coillte

I come from a farm forestry background and have been interested in the Irish forestry industry from a young age. When it came to filling out my CAO application, Forestry in UCD was an obvious first choice. The Forestry degree covers a broad range of science and forestry based modules and prepares students for careers in forest research, forest planning, forest management, and beyond. Stage 4 of the programme was very assessment and project based and gives students a chance to carry out a research project in a specific area of your own interest. The Forestry department in UCD is a small and tightknit faculty, the help, guidance and camaraderie within the department is fantastic. When it comes to applying for jobs in the forestry industry, the degree from UCD is highly regarded.



Since graduating I have joined Coillte Teoranta's Graduate Programme. I am just completing my first rotation with Coillte as Business Analyst over harvesting and general forest operations and am due to start my new role as an Operational Forester in the coming weeks. Forestry graduates are in demand in Ireland and the industry is growing. It is a dynamic industry and the Forestry degree provides you with the qualification and opportunities to work in a vast array of roles.



Michigan State University, USA

Professional Work Experience and Study Abroad Opportunities

A five month Professional Work Experience (PWE) placement is integral to your Forestry degree programme and is an invaluable learning and networking opportunity. Popular options include placements in Ireland, Europe and South America.

You can also study abroad for one semester, at universities including:

- University of California, USA
- Purdue University, USA
- Michigan State University, USA

There are a limited number of scholarships available, on a competitive basis, which support some of the costs associated with studying and completing Professional Work Experience abroad.

"PWE was a fantastic opportunity to gain practical hands on experience in the forest sector. My PWE provided me an opportunity to work with Coillte Teoranta here in Ireland and with the Icelandic Forest Service (Skógrækt ríkisins). A trip to the Blackforest in Germany with my class during Stage 4 was a real highlight and a brilliant opportunity to see large scale forest plantations, mills and harvesting operations."

- Mary Clifford

CAREER PATHWAY

Forestry

DN271

Year 1 Subjects

Animal Biology & Evolution
Introductory Chemistry
Physics
Mathematics
Ag Economics & Business
Trees and Forests in Ireland
Information Skills
Cell and Plant Biology
Intro to Biomolecules
Elective Modules

Year 2 Subjects

Principles of Forestry
Professional Forestry Practice
Soil Science Basics
Physiological Plant Ecology
Tree Structure & Function
Business Management
Agricultural Botany
Applied Biostatistics
Agricultural Microbiology
Engineering & Surveying
Health, Welfare & Safety
Elective Module

Year 3 Subjects

Forest Establishment
Forest Protection
GIS & Remote Sensing
Wood Science
Silviculture of Forest Stands
Professional Work Experience
Forest Management
Forest Harvesting
GIS & Forest Sampling
Elective Modules

Year 4 Subjects

GIS & Forest Inventory
Forest Management Plan
GIS & Experimental Design
SFM Assessment
Forest Planning
Research Project
Elective Modules

BAgrSc Honours

UCD Graduate Study

MSc and PhD Research Opportunities
MAgrSc Environmental Resource Management
MAgrSc Rural Environmental Conservation & Management
MAgrSc Sustainable Agriculture and Rural Development
MSc Humanitarian Action

Career Opportunities

Forester
Teacher
Technical Advisor
Forest Inspector
Forest Development Officer
Purchasing Manager
Operations Manager
Harvesting Manager
Consultancy
GIS Analyst
Scientist
Entrepreneur
Pricing Analyst
Marketing Executive
Government Official
Farm Management

Conversion or Complementary Courses

Postgraduate Diploma in Education
MSc Business Studies
Master of Business Administration
Master of Accounting
HDip Computer Science

MAIN MENU



UCD Agriculture and Food Science Programme Office

Agriculture and Food Science Centre,
University College Dublin, Belfield, Dublin 4

Tel: +353 (0) 1 716 7194

Email: agandfoodprogrammes@ucd.ie

Web: www.ucd.ie/agfood



Every attempt has been made to ensure that the information contained within this booklet is correct at the time of going to press, however the Agricultural Sciences Programme Board accepts no responsibility for any errors or omissions. New programmes are continually being introduced and existing programmes revised and therefore readers are advised to contact the UCD Agriculture & Food Science Programme Office for up to date programme details.

Horticulture, Landscape and Sportsturf Management



University College Dublin Agriculture, Food Science and Human Nutrition

UNDERGRADUATE COURSES

Horticulture, Landscape and Sportsturf Management



MAIN MENU

DN272



Horticulture, Landscape and Sportsturf Management

Why Horticulture, Landscape and Sportsturf Management?

Horticulture is the art, science, technology and business of plant cultivation for human use. If you like biology or other science subjects, or you're interested in business studies, home economics or languages, then this course may be for you. It will give you an appreciation of the importance of plants for human life and well-being.

The course covers the sciences, environmental studies, business, management and communications, as well as growing food and non-food plants. Landscape & Sportsturf Management focuses on the science behind developing and maintaining Ireland's designed landscapes, golf courses, tennis courts and sport pitches.

The objectives of this degree are to give you:

- Knowledge of the growth, development and protection of plants, and use of plants for food, leisure, sports, social and environmental benefits
- An understanding of horticultural plant production systems and how their components are integrated and managed in an environmentally friendly and sustainable manner
- The skills to become a competent, competitive and confident leader who will excel in the national or global horticulture community as a professional horticulturist or horticultural scientist

DN272 Horticulture, Landscape and Sportsturf Management

CAO Points

Average 2017 (Round 1) 386
Minimum 2017 (Round 1) 300

Minimum A Level:

CCC (Excluding Maths Bonus Points)
CCDe (Including Maths Bonus Points)

**Students should note that entry requirements and programme quotas are subject to change and students are advised to contact www.ucd.ie/registry/admissions/er.html prior to submitting an application to determine the entry requirements for a particular programme.*



President of UCD, Professor Andrew J Deeks speaking at UCD Rosemount Environmental Research Station Open Day in 2017

Employer View

Andrew Wilson | Managing Director, Keelings Farms



At Keelings we grow in excess of 4 million kilograms of soft fruit, Apples and Stone Fruit every season, under some of the most sophisticated growing systems in Europe. The complexity and rapid change requirements to our production methodologies, in order to keep up with the changing market requirements are both challenging and stimulating. As leaders in the field, we are constantly researching, travelling and asking questions in regard to developing and maintaining best practice. The UCD Horticulture degree is the first stop for any new recruitment opportunities and a completed UCD degree qualification is a substantial competitive advantage in any recruitment process. Wherever possible, we like to recruit trainee management and staff that have a solid, professional educational grounding in horticultural and business practice. This facilitates a reduction in potentially costly mistakes, there is less need for extensive internal training, but most importantly, our recruits are pre-gearred for additional responsibility. If you have the interest and qualification, we have the challenges.

Student View

Yang Shen | Year 4



University College Dublin is a time-honoured university with a high international reputation. As there are students from all over the world, I feel I have benefitted from the multi-cultural atmosphere as an international student. Besides this, I think it was a good choice to study an agriculture-related subject in Ireland. Horticulture is a complex subject concerning botany, agriculture and business, as well as art and architecture relating to the landscape. From studying this programme I have learned a wide range of knowledge which enables me to work in fields like landscape design and management, food production and food business, and plant science. As people are paying an increasing amount of attention to human wellbeing, I think it has been beneficial to study horticulture as it meets the needs both mentally (landscape) and physically (food production) of society.

The excellent modules in this programme will make you a professional in the horticultural field. Apart from classroom-taught modules, I have benefitted from field trips, which enabled me to get in touch with the food production industry including vegetables, fruit and mushrooms, etc. Both students and lecturers are friendly in the School of Agriculture and Food Science and I enjoyed the atmosphere. Overall, UCD provides a good learning experience and plenty of social activities, which will surely give you a colourful college life.



The majority of our graduates become professional horticulturists. The HLSM degree is a recognised qualification by the Chartered Institute of Horticulture for



Professional Work Experience and Study Abroad Opportunities

A five month professional work experience (PWE) placement is integral to your Horticulture, Landscape and Sportsturf Management degree programme and is an invaluable learning and networking opportunity. Popular options include placements in Ireland, Europe, North and South America, New Zealand and Australia. You can also study abroad for one semester, at universities including:

- University of California, USA
- Cornell University, USA
- Iowa State University, USA
- University of Maryland, USA
- Texas A & M University, USA

There are a limited number of scholarships available, on a competitive basis, which support some of the costs associated with studying and completing Professional Work Experience abroad.

CAREER PATHWAY

Horticulture, Landscape and Sportsturf Management

DN272

Year 1 Subjects

Animal Biology and Evolution
Introductory Chemistry
Physics
Mathematics
Ag Economics and Business
Plants and People
Cell and Plant Biology
Intro to Biomolecules
Elective Modules

Year 2 Subjects

Fundamentals of Horticulture
Business Management
Soil Science Basics
Physiological Plant Ecology
Agricultural Botany
Engineering and Surveying
Agricultural Microbiology
Food Macronutrients
Agricultural Biochemistry
Health, Welfare and Safety
Elective Modules

Year 3 Subjects

Plant Protection - Pests
Soil Science Applications
Elements of Landscape Design
Landscape Trees and Shrubs
Sportsturf Construction
Landscape Management
Plant Diseases: Biology
Horticulture Seminar
Scientific Writing and Review
Professional Work Experience
Elective Module

Year 4 Subjects

Applied Biostatistics
Fruits, Vegetables & Protected Crops
Nursery Production & Management
Sportsturf Management
Enterprise Development
Professional Communications
Research Project
Elective Module

BAgrSc Honours

UCD Graduate Study

MSc and PhD Research Opportunities
MAgrSc Sustainable Agriculture and Rural Development
MSc Humanitarian Action
MAgrSc Environmental Resource Management
MAgrSc Rural Environmental Conservation & Management
MSc Food, Nutrition and Health

Career Opportunities

Entrepreneur
Technical Advisor
Quality Assurance Inspector
Sportsturf Consultant
Scientist
Researcher
Management
Teacher/Lecturer
Horticulture Production, Logistics and Retail positions

Conversion or Complementary Courses

Postgraduate Diploma in Education
MSc Business Studies
Master of Business Administration
Master of Accounting

MAIN MENU



UCD Agriculture and Food Science Programme Office

Agriculture and Food Science Centre,
University College Dublin, Belfield, Dublin 4

Tel: +353 (0) 1 716 7194

Email: agandfoodprogrammes@ucd.ie

Web: www.ucd.ie/agfood



Every attempt has been made to ensure that the information contained within this booklet is correct at the time of going to press, however the Agricultural Sciences Programme Board accepts no responsibility for any errors or omissions. New programmes are continually being introduced and existing programmes revised and therefore readers are advised to contact the UCD Agriculture & Food Science Programme Office for up to date programme details.