



# UCD Agriculture, Food Science and Human Nutrition UNDERGRADUATE PROGRAMMES 2021 ENTRY







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# UCD School of Agriculture and Food Science

# #1

## 1st destination of choice in Ireland

for students interested in studying Agriculture and Food Science



Ranked **19th Globally** & **5th in Europe** for Agricultural Sciences

(US news and World Report Subject Rankings 2019)



## Opportunity

14 Undergraduate Programmes



## International Opportunities

**13** Exchange Partner Universities

# TOP 1%

## Expertise

UCD is ranked in the top 1% of higher education institutions world-wide



**Only University in Ireland** with a School of Agriculture and Food Science



## Support

Over 70 student scholarships, prizes and medals awarded annually

# WELCOME

UCD is Ireland's Global University and is currently ranked within the top 1% of higher education institutions world-wide. With over 160 years of tradition, 30,000 students from over 139 countries, 400 exchange partners and 288,990 alumni worldwide, UCD is at the forefront of global knowledge. We provide programmes with a curriculum that is constantly changing, responding to external demands, is 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 is the number one destination of choice in Ireland for students who wish to study Agriculture, Horticulture, Forestry, Food Science and Human Nutrition. Ranked number one in Ireland, nineteenth globally and fifth in Europe for the study of agricultural science (US News and World Report Rankings), 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.

The School offers 14 undergraduate programme entry routes, including our new Crop Science programme, 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 School of Agriculture and Food Science is committed to gender equality and was one of the first four schools in UCD to be awarded the Athena Swan Bronze award in 2019.

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, food businesses and policy making.

Agriculture and Food is Ireland's largest indigenous industry, employing approximately 173,000 people or 7.7% of the total workforce, and is one that continues to show considerable growth and resilience with great potential into the future. 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 at UCD is unique being the only university in Ireland with a dedicated School of Agriculture and Food Science 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.

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.

A handwritten signature in black ink, appearing to read 'A Evans'.

**Professor Alexander Evans**  
UCD Dean of Agriculture

“

**Our focus at the UCD School of Agriculture and Food Science is to develop the next generation of agriculture and food leaders.**







# 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 and Maths on each programme. Each of these subjects are taught from a basic level to facilitate all students. 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, technologies and support. Students on our programmes will have access to modern lecture and teaching facilities, a full range of laboratories, a 250ha research farm, and the Rosemount Environmental Research Station. Professional Work Experience (PWE) and international study opportunities are available to students on each of our programmes and 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.

Student welfare is a priority at UCD and a number of non-academic support services are available. Peer Mentors' can assist with your transition to UCD offering support, advice and guidance through your first year. Throughout your time at UCD a dedicated Programme Office and Student Adviser will be available to provide guidance and support in relation to any personal, social or practical issues.

“

I spent my PWE working with a global agricultural asset manager in Southern Chile. Landing in Santiago, I was sceptical as to what the nation had to offer in terms of dairying, however I was eager to find out. The opportunity to work, travel and experience a completely new culture is a unique element of the course. Utilising the skills, knowledge and experience learned during the first two years of the course I quickly adapted and began an experience which has been the highlight of the course to-date.

PWE provided me with the opportunity to develop relationships which led to further experiences across Chile and an expedition to Leitíssimo, a 5,000-cow dairy operation, in Brazil.

.....  
**Dáire Brady** | Year 4, Dairy Business Student





# PROFESSIONAL WORK EXPERIENCE

Professional Work Experience (PWE) is the term the School of Agriculture & Food Science use for the student internship process which is undertaken as part of our undergraduate programmes.

There is huge importance attached to this applied learning experience which provides students the opportunity to experience the practical application of knowledge in their chosen area. Many students will say that PWE was the most memorable part of their degree programme.

Students may arrange to take one or a number of placements during their PWE and placements may be taken with an approved provider in Ireland or internationally. The opportunity to complete your PWE placement internationally and the network of partners available to apply to is a unique benefit based on our 180 years of experience and global research links.

The duration of PWE varies depending on what programme students are undertaking and is outlined in the table below. All placements take place in Stage 3.

Programme of Study	Duration	Start
Human Nutrition	40 weeks	September
Animal and Crop Production	30 weeks	January
Food & Agribusiness Management	28 weeks	January
Dairy Business	20 weeks	July
All other programmes*	16 weeks	April

*\* Students studying Food Business with Chinese Studies will study abroad in Year 3. PWE is optional on this programme.*



## In 2018/19:



29%

Students took their PWE placement overseas



115

International Placements



13

International Destinations



4

Industry Travel Bursaries awarded



11

Awards for PWE Placement Excellence



## Student View

Sarah Carney  
Human Nutrition, Year 4

I undertook my 10-month PWE in the Children's Hospital Ireland (CHI) at Crumlin, where I shadowed dietitians in clinics and on the wards. As part of my PWE, I undertook a research project and presented my findings at the hospital's research and audit day. I really valued this placement as it gave me a good insight into clinical nutrition and dietetics and as a result I will now pursue a Master's in Dietetics.

# STUDY ABROAD



**13**  
PARTNER  
UNIVERSITIES



**14%\***  
STUDENTS STUDYING  
ABROAD



**14\***  
STUDENT EXCHANGE  
SCHOLARSHIPS



STAGE 3



AMERICA, AUSTRALIA  
NEW ZEALAND



## STUDY ABROAD DESTINATIONS

UCD Majors	Michigan State University	Purdue University	Kansas State University	Iowa State University	Cornell University	Texas A&M University	University of Illinois at Urbana-Campaign	University of Connecticut	University of California (UC Davis)	University of Queensland	Lincoln University	University of Maryland	University of Vermont
Agri Environmental Sciences	•	•	•	•	•	•	•	•	•	•	•	•	•
Agricultural Systems Technology	•	•		•		•	•	•	•	•		•	
Animal & Crop Production	•	•	•	•	•	•	•				•		
Animal Science	•	•	•	•	•	•	•	•		•	•	•	•
Animal Science - Equine	•	•	•	•		•		•		•		•	
Crop Science	•	•	•		•	•							
Food & Agribusiness Management	•	•	•	•	•	•	•	•	•	•	•	•	•
Food Science	•	•	•	•	•	•	•	•	•	•	•	•	•
Forestry	•	•	•	•	•	•	•	•	•	•	•		•
Horticulture	•	•	•	•	•	•	•	•	•	•	•	•	•

# STUDY ABROAD

There are exciting opportunities for UCD students enrolled on the BAgrSc & BSc Food Science programme to study at partner universities overseas - we call this the Student Exchange Programme.

Students can avail of opportunities to spend a semester studying at American, Australian and New Zealand universities under established exchange programmes.

A semester on the student exchange programme provides a unique opportunity to experience a university environment in a foreign country, broaden your academic experience, earn college credits while living abroad, make lifelong friends and learn about agriculture and food science from another country's perspective, all while experiencing a different culture and lifestyle.

This opportunity can be taken in Year 3 and while no additional university fees are incurred, students are responsible for covering the cost of their own travel and accommodation expenses. There are a limited number of scholarships available which can support some of the costs associated with travelling.

“Michigan State University has always enjoyed hosting students from the UCD School of Agriculture and Food Science. UCD students not only bring a high caliber of academics to our robust classroom experience, but they are eager to get involved on campus. It has been wonderful to see UCD & MSU students build life-long friendships through our exchange partnership.”

**Lewis Cardenas**  
Michigan State University

## Student View

**Niall Diffley** | Food and Agribusiness Management, Year 4

To say my study abroad experience was life-changing, wouldn't be an understatement. I choose Purdue University as it is one of the highest ranked colleges for the study of Agriculture in the world. The different education system and learning environment can be challenging but is extremely rewarding.

The buzz around campus was amazing, particularly for home football games, where the on-campus stadium was rocking with a 57,000-seat capacity. The opportunity to travel and visit cities such as Chicago, Los Angeles and New York City are truly unforgettable experiences and ones I will cherish for a very long time. I would highly recommend doing the study abroad programme, not only due to personal development and experience, but also to gain an unrivalled educational experience and become exposed to different cultures and systems.

Cornell University



Michigan State University



Purdue University



“During my time as Careers Committee Chair for the Agricultural Science Society (AgSoc) I got to see first-hand the phenomenal interest companies have in meeting students from the UCD School of Agriculture and Food Science. The interest from employers to host information events and to recruit students was evident right through my time as careers chair. The spectrum of companies who value the skill set of graduates from UCD is staggering and something I never would have anticipated when starting the course.

**Owen Cashman**

Animal and Crop Production,  
Final Year Student & Careers  
Committee Chair, Agricultural  
Science Society 2019-2020



# CAREERS

Due to the broad nature of our degree programmes students gain positions of employment in a variety of roles. Graduates have an excellent record in obtaining challenging and fulfilling roles.

Careers in sectors such as food, health, agriculture, forestry, horticulture, environment, business and services include: Enterprise management; Technical service and consultancy; Research; Education; Policy; Marketing & communications and Primary production of quality food and drink products.

The School of Agriculture and Food Science has a very strong and unique relationship with industry and students are exposed to employers coming on to campus in search of talented soon-to-be graduates each year.

The final year undergraduate students in the School of Agriculture & Food Science are the only student body on campus to organise their own Careers Fair annually. In 2020, more than 50 exhibitors attended a very successful UCD Agriculture, Food Science and Human Nutrition Career Day.

Students also have an invaluable opportunity to network with prospective employers when they are undertaking their PWE placements in Stage 3. Each year a substantial number of graduates commence employment with organisations that provided them with placement opportunities during PWE.

## What do UCD School of Agriculture and Food Science graduates do?

Each year the Higher Education Authority (HEA) commissions a report tracking the first destination of university graduates.

The First Destination Report highlights the employment rate of graduates directly following graduation.

The most recent First Destination Report for UCD School of Agriculture and Food Science graduates found:

**70.4%**

In Employment

**24.9%**

In Further Study or Training

## The Agriculture and Food Industry in Ireland

Each year the Department of Agriculture, Food and the Marine issues a report highlighting key activities of the Agriculture and Food Industry. The most recent report showed that:

**164,400**

or 7.1% of the total workforce are employed in the agri-food sector

**€14.5bn**

Value of Ireland's food and agri-Food products



## GRADUATE VIEW

**William Minchin** |

Ruminant Business Unit, MSD Animal Health

After staying with my sister on campus in Belfield during transition year I decided all I wanted to do was attend UCD. Three years later I started my studies in Agricultural Science (Animal and Crop Production), the best decision I ever made. I graduated with an honours degree and proceeded to complete a PhD in Teagasc Moorepark through UCD.

UCD gave me the opportunity to develop a great career. I could have gone in numerous directions as a result of my degree and PhD. I am currently the Director for the Ruminant Business Unit with MSD Animal Health. A job, company and colleagues I love working with.

As a company we have employed 7 UCD graduates in the last 5 years.

I was lucky enough to have played with some of the best footballers in the country in Sigerson competitions and as a Carlow man having won two Dublin Championship medals and several All-Ireland university medals, I feel really privileged. These are examples of the doors that UCD can open outside of academia. I have nothing but fond memories of UCD and would highly recommend prospective students to consider a programme at the UCD School of Agriculture and Food Science.

According to the HEA'S First Destination Report, the UCD School of Agriculture and Food Science class gained employment with a variety of organisations including:



**WATCH CAREERS DAY  
2020 ONLINE**

[ucdagfood](https://www.youtube.com/watch?v=ucdagfood)



# ALTERNATIVE ENTRY AND PROGRESSION

The UCD School of Agriculture and Food Science offer a number of alternative entry routes into our degree programmes in addition to entry from Irish school leaving examinations.

Alternative entry routes are considered from external applications to stage one, or to an advanced stage of our programmes. A fixed number of places are available via alternative entry and progression pathways each year, on a competitive basis.

Detailed information is available on the UCD School of Agriculture and Food Science website: [www.ucd.ie/agfood/study](http://www.ucd.ie/agfood/study)

Alternative Entry and Progression Pathways available are

- HETAC Higher Certificate/Ordinary Degree
- QQI-FET progression
- Open Learning
- Application on grounds of mature years
- Higher Education Access Route (HEAR)
- Disability Access Route to Education (DARE)
- Transfer from a level 8 programme
- Re-Admission to UCD
- UCD Progression Routes



## STUDENT VIEW

Megan Ennis | Food Science - Year 4

I am a mature student and applied to the Food Science programme through the CAO using my leaving cert results from 2009. I chose Food Science as I had worked as a chef and have always had an interest in food. The modules sounded interesting and challenging and the degree provides you with many career options.

At the beginning I found the maths challenging, but there are brilliant supports on campus for students. I found the Maths Supports Centre helpful with assignments and the tutors were supportive and patient. I have a disability and received some additional supports through the UCD Access and Lifelong Learning Centre.

I had so many positive experiences during my time at UCD. I rowed for UCD in 1st year, I got involved with UCD Failte Refugee, UCD Nutrition Society and sang in the UCD Music Society Choir. I have been able to attend many events like the UCD Women in Leadership Conference and got a part time job in a tech start up through a job listing advertised in UCD.

I also went on study abroad to Michigan State University for a semester and am now doing a structured elective "Towards a Sustainable and Healthy Society: Food, Agriculture and the Environment" which is a great addition to my degree. The UCD community is large and presents students with many opportunities if you look for them.



## STUDENT VIEW

Jody Sweeney |  
Animal and Crop Production, Year 4

I was determined to study agricultural science at UCD. I undertook the Leaving Cert for the first time and did not achieve the points required for Agricultural Science at UCD that year. After weighing all my options, I made the decision to re-sit the Leaving Cert and unfortunately, I was still a few points short of the requirements. My guidance counsellor introduced me to an "alternative entry" route to UCD. Each year UCD reserves a number of places for students who complete an approved Post Leaving Cert (PLC) course. I completed a one-year QQI Level 5 Certificate in Laboratory Techniques at Cavan Institute and after meeting the requirements I was finally accepted to UCD. The obstacles I overcame to make it to UCD made me a better student and a better person, and I feel I have been very successful at UCD.







# UCD LYONS FARM

Lyons Farm is a key enabler of UCD's teaching and research ambitions. It forms an integral part of the teaching and research infrastructure of the College of Health and Agricultural Sciences, and specifically of the School of Agriculture and Food Science and School of Veterinary Medicine.

UCD is unique amongst third level universities in Ireland by having its own teaching and research farm to provide students and academics with access to large animal and crop enterprises for the delivery of teaching and research programmes. These programmes are of national importance and underpin technical innovation and science-driven education and discovery for the agri-food industry, which helps maintain international competitiveness and addresses challenges and opportunities for innovation as they emerge.

Currently these include:

- Increasing globalisation and competition,
- The removal of production linked subsidies within the EU,
- The demand for production of healthy food at affordable prices,
- Food produced with due regard to animal health and welfare,
- The need for proper sustainable management of land and animals to protect natural resources (air, water and plant and animal biodiversity),

- The importance of maintaining viability of rural communities and recreational activities,
- The reduction of greenhouse gas emissions from agriculture (currently comprising 33% of national emissions),
- The need to reduce the fossil fuel inputs into agricultural production.

On many BAgSc programmes students visit UCD Lyons Farm in year two as part of the Health, Welfare and Safety module that takes place in preparation for Professional Work Experience. On some modules in year three, such as Soil Science Applications and Animal Reproduction, students visit UCD Lyons Farm for important practical classes. Animal and Crop Production and Animal Science degree programme students spend one day per week at UCD Lyons Farm during the final year of their studies.

There are also opportunities for students to obtain invaluable experience during the especially busy Lambing period at UCD Lyons Farm which takes place in March each year.

## Education and Research at Lyons Farm

### UCD Lyons Long-Term Grassland Platform

The UCD Lyons Long-Term Grassland Platform is an exciting new beef systems experiment established in 2019. The Platform consists of 24ha divided into three farmlets, each sown under a different sward type and grazed by its own beef herd.

Swards are:

- Perennial ryegrass
- Perennial ryegrass and white clover
- Multispecies mixture with grasses, legumes and forage herbs

This Platform will allow UCD researchers to investigate the long-term sustainability and resilience of pasture-based beef production in terms of animal performance and health, greenhouse gas emissions, biodiversity, water quality, soil fertility and carbon, and economic performance.

This site is part of the Global Farm Platform, an international network of sites working to improve the sustainability of ruminant production systems.

# Agricultural Science

DN250



# WHY AGRICULTURAL SCIENCE?

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

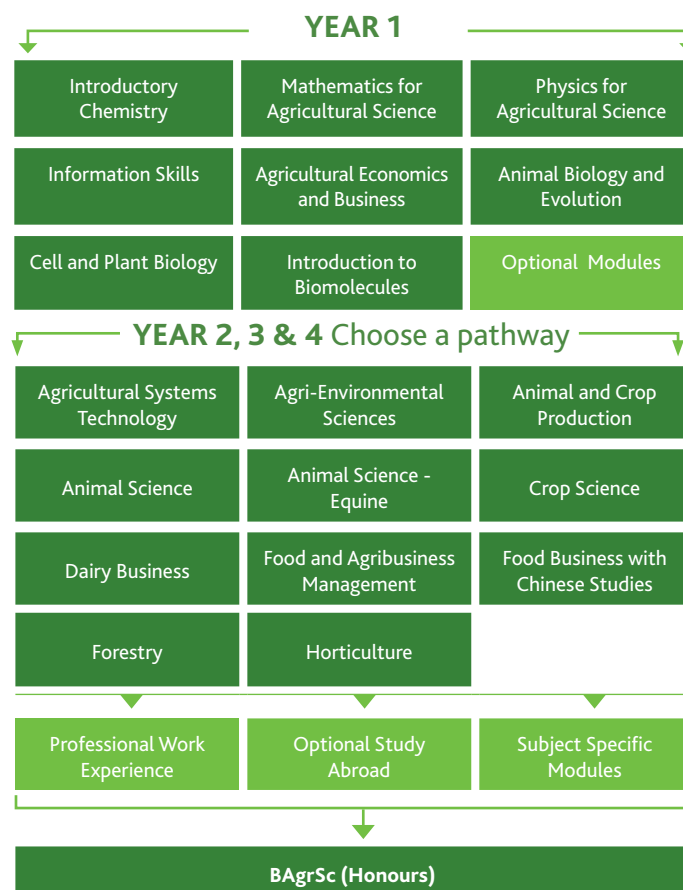
Our exciting range of programmes cover a wide variety of different subjects offering you a broad choice of lifestyle and career path. If you are interested in Agricultural Science, but are not yet certain of which area to specialise in, you can select the No Preference (NPF) option on your CAO form. 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 eleven specialisations from second year. If, on the other hand, you know which of the eleven programmes you'd like to specialise in, you can select this on your CAO application.

Students interested in progressing to the Food Business with Chinese Studies degree must undertake three Chinese language modules by the end of year one.

## 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. Your subjects in year two, three and four will depend on which of the eleven programmes you decide to specialise in and are outlined within this booklet.



## DN250 Agricultural Science

### CAO Points

**Minimum 2020** (Round 1) **456**

**Minimum 2019** (Round 1) **425**

### Minimum A Level 2019:

AAB or ABB +B @AS level

(Calculations do not include maths bonus of 25 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](http://www.ucd.ie/registry/admissions/er.html) prior to submitting an application to determine the entry requirements for a particular programme.

# Agricultural Systems Technology

DN250



## Why 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.

## DN250 Agricultural Systems Technology

### CAO Points

**Minimum 2020** (Round 1) **456**

**Minimum 2019** (Round 1) **425**

### Minimum A Level 2019:

AAB or ABB +B @AS level

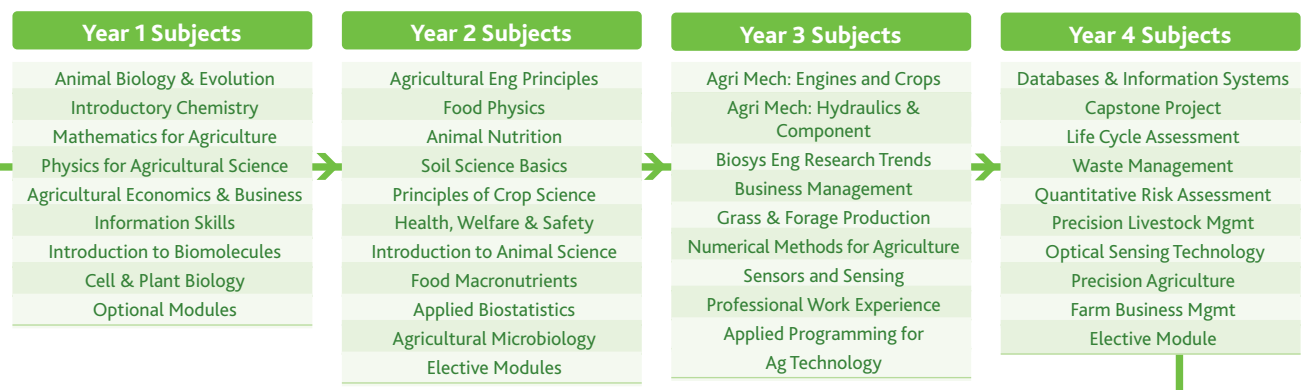
(Calculations do not include maths bonus of 25 points)

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# Programme Pathway

## Agricultural Systems Technology DN250



### BAgrSc Honours



## Student View

**Claudia McCormick | Year 4**



Growing up on a beef farm in Co. Offaly, I have always been involved in the day to day farming and felt Agricultural Science was the best path for me. I chose the course Agricultural Systems Technology (AST), as I have always had a keen interest in not only farming but engineering, technology, and understanding why things do what they do.

The course is a great way to understand the background of our farming practices and how we can use technology to improve them further. The course is small and close-knit, which means you know everyone, and it makes classes very enjoyable.

AST has given me so many opportunities, including studying for a semester abroad at Queensland University in Australia. I completed my PWE with Self Help Africa, where I worked on projects where technology is used to create better farming practices for third world country farmers.

With the way the world is changing and growing, I think studying AST is the way forward.

## Student View

**Philip O'Donnell | Year 4**



I choose to study Agricultural Systems Technology after entering the course through the omnibus route. Modules are a mixture of traditional agricultural science subjects which give you a good grounding in the agricultural side of things and then unique modules in computer coding, databases, algorithms, GIS mapping and sensors. The classes tend to be small and you get a considerable amount of interaction with the lecturers who are very

approachable. Having come from a tillage background, I chose to take my electives in this area to strengthen my knowledge on this subject. I was fortunate to win the Grant Thornton PWE Excellence Award for my placement with the Department of Agriculture, Food and the Marine and Teagasc.

Coming from Kilkenny, I have always played hurling and began in first year playing with the UCD fresher's team. Hurling is a great way to make new friends - highlights have been two junior league final medals and reaching the All-Ireland intermediate final.

# Agri-Environmental Sciences

DN250

## 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
- Interpersonal and professional skills required to follow your chosen career path.

DN250

## Agri-Environmental Sciences

*For entry to the Agri-Environmental Sciences programme in 2021, students will apply via the DN250 CAO Code.*

### CAO Points

**Minimum 2020** (Round 1) **418**

**Minimum 2019** (Round 1) **403**

### Minimum A Level 2019:

ABB or ABC+C @AS level

(Calculations do not include maths bonus of 25 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](http://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

DN250



## Why Animal and Crop Production?

The science and business of producing animals and crops in an efficient, sustainable and environmentally friendly manner is one example of the challenges facing Agricultural Scientists, Farmers and Agribusinesses. 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.

DN250

## Animal and Crop Production

CAO Points

**Minimum 2020** (Round 1) **456**

**Minimum 2019** (Round 1) **425**

**Minimum A Level 2019:**

AAB or ABB +B @AS level

(Calculations do not include maths bonus of 25 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](http://www.ucd.ie/registry/admissions/er.html) prior to submitting an application to determine the entry requirements for a particular programme.





# Animal Science

DN250



## Why 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 translating these principles into livestock production. The degree will give you an appreciation of:

- The growth and development of domestic farm animals
- 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.

DN250

## Animal Science

CAO Points

**Minimum 2020** (Round 1) **456**

**Minimum 2019** (Round 1) **425**

**Minimum A Level 2019:**

AAB or ABB +B @AS level

(Calculations do not include maths bonus of 25 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](http://www.ucd.ie/registry/admissions/er.html) prior to submitting an application to determine the entry requirements for a particular programme.

## Animal Science

DN250

### Year 1 Subjects

Animal Biology & Evolution
Introductory Chemistry
Mathematics for Agriculture
Physics for Agricultural Science
Agricultural Economics & Business
Information Skills
Introduction to Biomolecules
Cell & Plant Biology
Optional 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
Food Microbiology
Professional Work Experience
Exp Design & Data Analysis
Animal Nutrition II
Elective Modules

### Year 4 Subjects

Animal Health, Behaviour & Welfare
Grass & Forage Production
Students visit UCD's Lyons Research Farm to get hands-on practical experience
Non-ruminant Animal Production
Farm Business Management
Professional Communications
Agricultural Policy
Beef Production
Sheep Production
Dairy Production
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 by Research

### 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

Professional Master of Education (PME)
Graduate Veterinary Medicine
MSc Business Studies
Master of Business Administration
HDip Computer Science
Master of Accounting

## Student View

**Christopher Heffernan** | Year 4



From an early age I knew a career in agriculture was for me. From the Kingdom of Kerry, the move to Dublin seemed a daunting venture. However, during my first week of college UCD's peer mentor programme showed me the real community spirit of Ag and that's when I knew I had made the best decision for my future.

I always had a keen interest in cattle and particularly genetics. I embarked down the pathway of animal science as I loved all things dairy cattle orientated. For my second semester of third year I completed a semester abroad at Cornell University in Upstate New York. As the No.1 Animal Science Institute in the US, I received the best and most cutting-edge education possible. I was able to choose my own modules which meant I could exclusively focus on dairy science and this in particular fuelled my drive to pursue a career in Dairy Nutrition. While in America I completed a section of my professional work experience on the world-renowned Research Dairy Farm in Cornell and spent a month working on the 2018 US Innovative Dairy Farm of the Year, Schrack Farms, where they milk >1000 cows in an indoor system.

Professional work experience offers you huge flexibility while also ensuring you develop an understanding of the four main animal production systems. The course is highly regarded throughout the industry and I found this to be a huge asset when organising my PWE. It certainly opened many doors to me. The highlight of my final year in college was joining the UCD Ag Soc committee. Getting to make strong connections with future industry professionals while organising and running events, all to raise money for charities. This experience really helped me to develop as an individual. There is no other society like it in UCD and it ensures that every semester in UCD is one to remember.

## Graduate View

**Amii McKeever** | Editor, Irish Country Living - Irish Farmers Journal

Final year in secondary school is a very young age to decide what direction your life is going to take you. I consider myself lucky that I made the decision to keep my options very broad by studying Animal Science in UCD. With ag - your course and the ag block was also like a small rural college and a familiarity and family to come home to.

This degree gives you endless varied opportunities. Since I graduated, I have been awarded a funded masters scholarship (Walsh Fellowship), lectured in equine science in the UK, experienced life as a lobbyist and worked in corporate affairs for an international Irish company. I now edit Irish Country Living, the magazine of the biggest agricultural publication in the state. I also travelled the world between agricultural scholarships and conferences I have been privileged to attend through my work. Would you say that is a career plan that could be mapped out? I doubt it.



# Animal Science - Equine

DN250



## Why 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 on equine reproduction and genetics/genomics.

DN250

## Animal Science - Equine

CAO Points

Minimum 2020 (Round 1) 456

Minimum 2019 (Round 1) 425

Minimum A Level 2019:

AAB or ABB +B @AS level

(Calculations do not include maths bonus of 25 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](http://www.ucd.ie/registry/admissions/er.html) prior to submitting an application to determine the entry requirements for a particular programme.



# Crop Science

DN250

NEW  
FOR 2021  
ENTRY



## Why Crop Science?

Agronomy is the science of crop production and soil management, leading to improvements in crop yield and quality. Environmental challenges, production of biofuels, and the growing demand for major food crops like wheat and rice, make agriculture and crop science a vital subject for our future well-being.

You will learn about the science, production and management of crops, from genes and cells through to fields, farms and the development of future crops from subject experts who are active researchers in the most rapidly developing area of agriculture and agri-business. This is a very suitable degree if you intend to pursue full-time farming or combine part-time farming with a professional career.

## DN250 Crop Science

### CAO Points Guide

**Minimum 2020** (Round 1) **456**

**Minimum 2019** (Round 1) **425**

### Minimum A Level 2019:

AAB or ABB +B @AS level

(Calculations do not include maths bonus of 25 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](http://www.ucd.ie/registry/admissions/er.html) prior to submitting an application to determine the entry requirements for a particular programme.



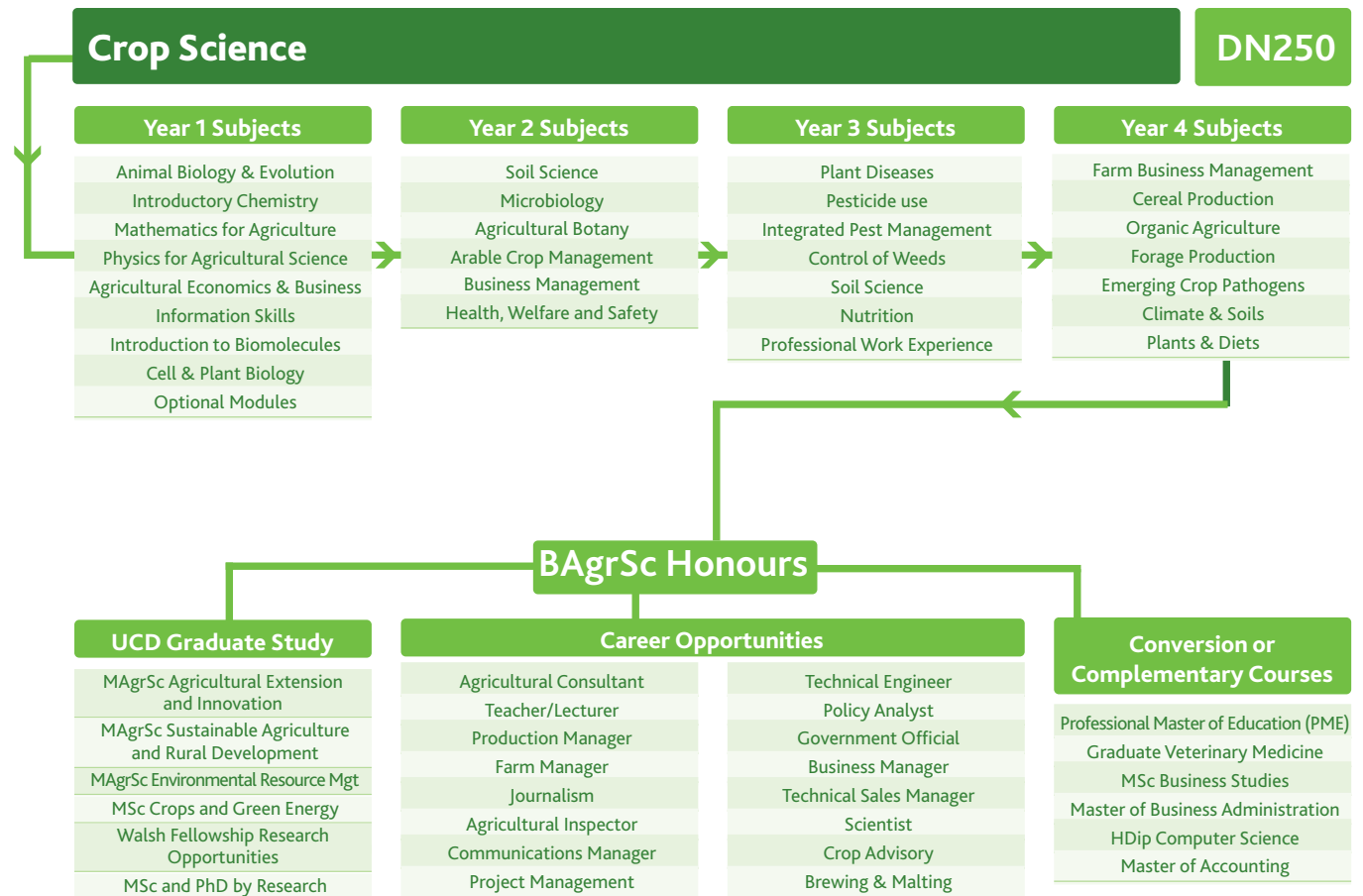
## Exciting new Crop Sciences programme at UCD

The new Crop Science programme offered at the UCD School of Agriculture and Food Science is the only third level Crop Science degree programme offered in Ireland. There is an increasing demand for highly qualified graduates in the area of crop agronomy and graduates from this programme will be qualified to address a skills shortage in this sector as identified by the Department of Agriculture, Food and the Marine Foodwise 2025 Strategy. It is estimated that over the next decade there will be growth opportunities for the tillage sector in areas such as increasing demand for barley and malt for the rapidly expanding brewing sector in the whiskey, and micro-brewing industries. Additionally, increased demand for oats, due to their health and nutritional benefits, will drive the requirement for higher value-added tillage crops. The production strategy for these crops requires a higher degree of agronomic management and supply chain management to ensure the products attain their premium markets.

This exciting new programme will also address the growing responsibility for the tillage sector with regard to climate change. The tillage sector has the potential to produce animal and human protein ingredients utilizing soil and crop carbon management strategies that reduce GHG emissions from the sector and from the food supply chain.



# Programme Pathway



## Consus Project

UCD has partnered with the leading agribusiness company, Origin Enterprises plc to develop the next generation of digital tools for use by the farmer and agronomist. CONSUS is a €17.6m programme over 5 years, which is jointly funded by Science Foundation Ireland and Origin Enterprises.

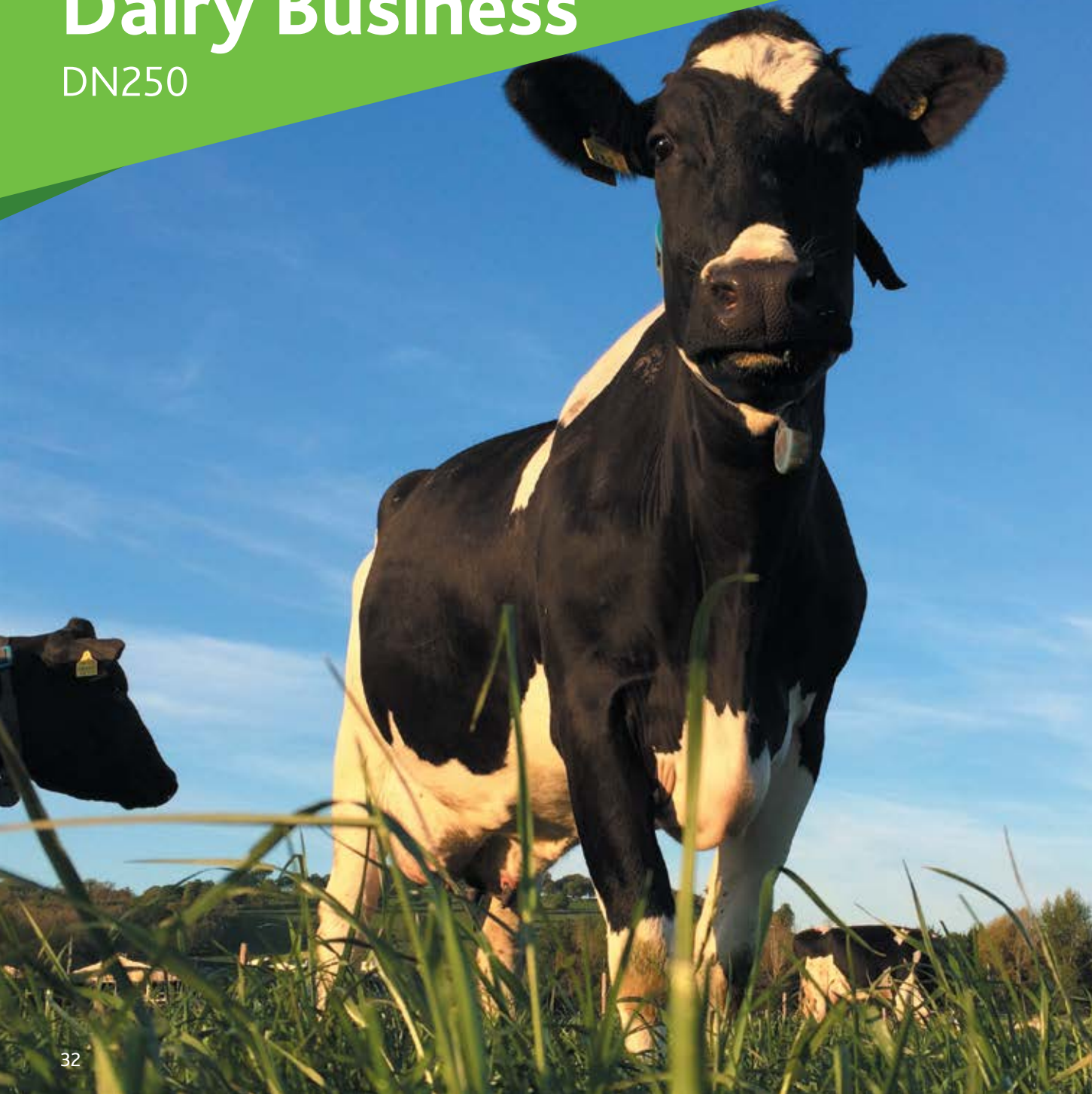
CONSUS, is a collaborative research programme focused on the application of

precision agriculture to crop production with a particular emphasis on optimisation of agri-food production systems leading to more efficient food production with lower environmental impacts. The outcomes from this research programme will deliver a step-change in crop agronomy tools and practices, leading to enhanced global competitiveness and inform teaching on the new Crop Science degree programme.



# Dairy Business

DN250



## Why Dairy Business?

The Irish dairy industry makes a major contribution to the Irish economy adding over €4 billion to food exports and employing approximately 18,000 dairy farmers and a similar number working on farms, in the processing industry and 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. 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.

DN250

## Dairy Business

*For entry to the Dairy Business programme in 2021, students will apply via the DN250 CAO Code.*

### CAO Points

**Minimum 2020** (Round 1) **410**

**Minimum 2019** (Round 1) **398**

### Minimum A Level 2019:

ABB or BBC +A\* @AS level

(Calculations do not include maths bonus of 25 points)

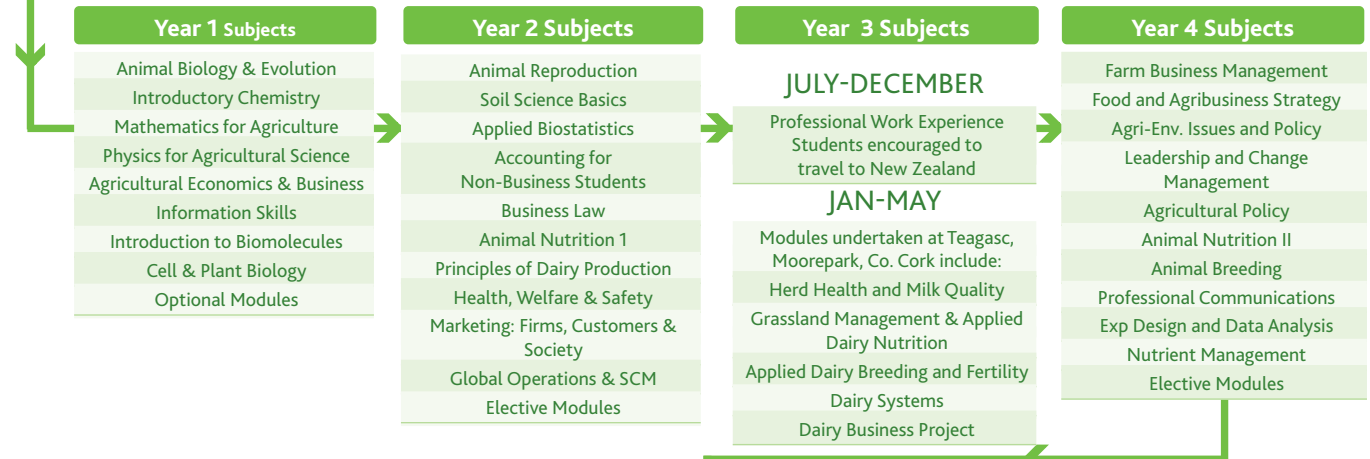
\*Students should note that entry requirements and programme quotas are subject to change and students are advised to contact [www.ucd.ie/registry/admissions/er.html](http://www.ucd.ie/registry/admissions/er.html) prior to submitting an application to determine the entry requirements for a particular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



# Programme Pathway

## Dairy Business

DN250



## BAgrSc Honours

### UCD Graduate Study

- MAgrSc Sustainable Agriculture and Rural Development
- Walsh Fellowship Research Opportunities
- MSc/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
- Lecturer/Teacher
- Agricultural Consultant
- Marketing Manager
- Journalism
- Business Manager
- Communications Manager
- Technical Sales Manager
- Scientist
- Government Official
- Policy Analyst
- Consultant

### Conversion or Complementary Courses

- Professional Master of Education (PME)
- Graduate Veterinary Medicine
- MSc Business Studies
- Master of Business Administration
- HDip Computer Science
- Master of Accounting



## Graduate View

**Thomas Whitley | Dairy Farmer**

I really enjoyed the Dairy Business course at UCD as it offered a broad range of subjects relevant to the agricultural industry. I chose this course as it has a blend of both agricultural science and business modules. It also gave me the opportunity to go abroad to learn more about dairy farming in New Zealand which was the highlight of the course for me.

I always wanted to explore different parts of the world so after graduating I took up a role in Australia working as a senior herdsman at an intensive American style 8000 cow dairy farm. I was surprised at how quickly I was given the job and how well UCD and Teagasc were recognised on the other side of the world. I spent almost two years working in breeding and health teams where I put the theory from UCD into practice. I mainly focused on overseeing breeding programmes, pregnancy testing and performing artificial insemination of cows. Health team activities were challenging but rewarding. I spent a lot of time examining cows for illnesses, diagnosing problems, administering medication and helping with operations. I also gained a lot of experience around calving time, with on average 40 cows calving per day.



## Student View

**Mary Kate Condren | Year 3**

Having come from a dairy farming background in Co. Wicklow, agriculture always played a huge role in my life. This course combines both the business and management elements while also having a strong focus on agricultural topics such as nutrition and genetics. As part of my professional work experience, I spent 20 weeks on the South Island of New Zealand on an 1100-cow farm. I was fortunate to be awarded

a travel bursary from the ASA/Irish Farmers Journal, which helped cover some of the costs incurred for this trip. For the second semester of third year, we were based in Teagasc Moorepark and were privileged to have been lectured by some of the top dairy researchers in Ireland and the world over. The opportunity to be mentored by progressive, high class farmers to develop grassland management skills and to obtain an insight into their business, imparting the knowledge and skills they gained, makes this course unique.

# Food and Agribusiness Management

DN250

## Why Food and Agribusiness Management?

If you enjoy science and business, the Food and Agribusiness Management degree programme provides an excellent opportunity to obtain an understanding of both subjects.

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 that consumers 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.

DN250

## Food and Agribusiness Management

CAO Points

Minimum 2020 (Round 1) 456

Minimum 2019 (Round 1) 425

Minimum A Level 2019:

AAB or ABB +B @AS level

(Calculations do not include maths bonus of 25 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](http://www.ucd.ie/registry/admissions/er.html) prior to submitting an application to determine the entry requirements for a particular programme.



## Student View

**Clodagh Dolan | Year 4**

The Irish and International food industry has always interested me. While working in the sales and marketing department of our family company, I discovered my interest for the business side of the operation, so I decided to study Food and Agribusiness Management at UCD.



UCD had always been at the top of my list of colleges, and it didn't disappoint. The campus, student life and opportunity to travel abroad made UCD stand out to me and the university has an array of clubs and societies to join. During my final year I held a position on the UCD Commerce and Economics committee where I got to meet people from across the university and work on exciting events such as Comm Ball, UCD's largest annual black-tie event.

During my third year, I had the chance to study abroad at the University of Illinois, which is ranked in the top 10 Agriculture Schools in the United States. My experience in Illinois was eye-opening and has contained some of the best memories of my time at college. I was lucky enough to receive a Student Scholarship Award to attend the University.

During the second half of third year I completed my PWE with Keeling's Retail. The experience allowed me to gain a real understanding of the FMCG industry. One of the highlights of my placement was travelling to Holland to complete a project for the company. I was delighted to be awarded a Grant Thornton PWE Excellence award for my placement at Keelings.



## Graduate View

**Patrick Hennessy | Supply Chain & Procurement Advisor, Bord Bia, London**

Growing up on a mixed dairy and beef farm in Tipperary, a career in the food industry was a no brainer for me! I felt Food and Agribusiness Management gave me a great insight into the Food and Agribusiness sector, not only in Ireland, but globally. I was chosen to spend my 3rd year placement with Dawn Meats in France, and this was a fantastic opportunity to see how

# Programme Pathway

## Food & Agribusiness Management

DN250



## BAgrSc Honours

### UCD Graduate Study

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

### 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
Entrepreneur
Accountant

### Conversion or Complementary Courses

Professional Master of Education (PME)
MSc Business Studies
Master of Business Administration
HDip Computer Science
Master of Accounting
MSc Management
MSc Digital Marketing

Irish companies operate internationally. Upon completion of my degree, I worked for Glanbia in their agribusiness team before joining their group procurement team in Kilkenny.

I am currently studying a Masters in Supply Chain & Procurement, an 18-month programme run by Bord Bia and the Michael Smurfit Business School. I am undertaking my placement in London where I am working as a buyer for Compass Group, the largest contract foodservice company in the world.

# Food Business with Chinese Studies

DN250



## Why 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.

### STUDY ABROAD IN CHINA

Students will complete year three of their studies in Renmin University in Beijing, one of China's top universities, where you will take intermediate or advanced Chinese language courses and a range of interesting and relevant modules.

DN250

## Food Business with Chinese Studies

CAO Points

**Minimum 2020** (Round 1) **456**

**Minimum 2019** (Round 1) **425**

**Minimum A Level 2019:**

AAB or ABB +B @AS level

(Calculations do not include maths bonus of 25 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](http://www.ucd.ie/registry/admissions/er.html) prior to submitting an application to determine the entry requirements for a particular programme.



## Student View

Max Geoghegan | Year 3



Within the past decade trade relations between Ireland and China have become increasingly positive. China is now Ireland's third largest export market and trade between the two countries is expected to rise exponentially. I chose this course as it provides students with an opportunity to study a language spoken by more than one billion people as well as also learning about the food sector as a whole through participating in a number of scientific and business modules. The opportunities afforded to me during this course will allow me to graduate with a high level of proficiency in Mandarin due to spending a year in Beijing, as well as also having an extensive knowledge of the food industry in both Ireland and China.



# Programme Pathway

## Food Business with Chinese Studies

DN250



## BAgrSc Honours

### UCD Graduate Study

MSc Humanitarian Action
MAgrSc Sustainable Agriculture and Rural Development
Walsh Fellowship Research Opportunities
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

Professional Master of Education (PME)
MSc Business Studies
Master of Business Administration
HDip Computer Science
Master of Accounting

\* Students interested in progressing to the Food Business with Chinese Studies degree through the omnibus route must undertake three Chinese language modules by the end of year one.

## Industry View

Tara McCarthy | CEO, Bord Bia



China has a population of 1.4bn people, a rapidly growing economy, increasing urbanization and an appetite for high quality food and ingredients that cannot be sourced locally. Irish food & drink exports to China was approximately €794 million in 2019, making it Ireland's 5th largest export market and second

largest market for dairy and pork. It is critical that Ireland develops a sustainable pipeline of talented, globally focused young people who can lead Irish food and drink's continued success in this market. The UCD Food Business with Chinese programme is well equipped to deliver these future industry leaders.

# Forestry

DN250

## Why Forestry?

Forestry is the science, art and profession of managing forests. Foresters create and manage forests to provide a variety of ecosystem services including timber, biodiversity, carbon sequestration, recreation, conservation and aesthetics. Forestry operates under the paradigm of 'Sustainable Forest Management' which seeks to balance environmental, economic and social factors.

Students 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 of paramount importance in the creation and management of forests today. Forestry employs high spec technology in planning, forecasting and supporting the long-term management of forests.

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

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

DN250

## Forestry

*For entry to the Forestry programme in 2021, students will apply via the DN250 CAO Code.*

### CAO Points

**Minimum 2020** (Round 1) **311**

**Minimum 2019** (Round 1) **303**

**Minimum A Level 2019:** BCD or AA

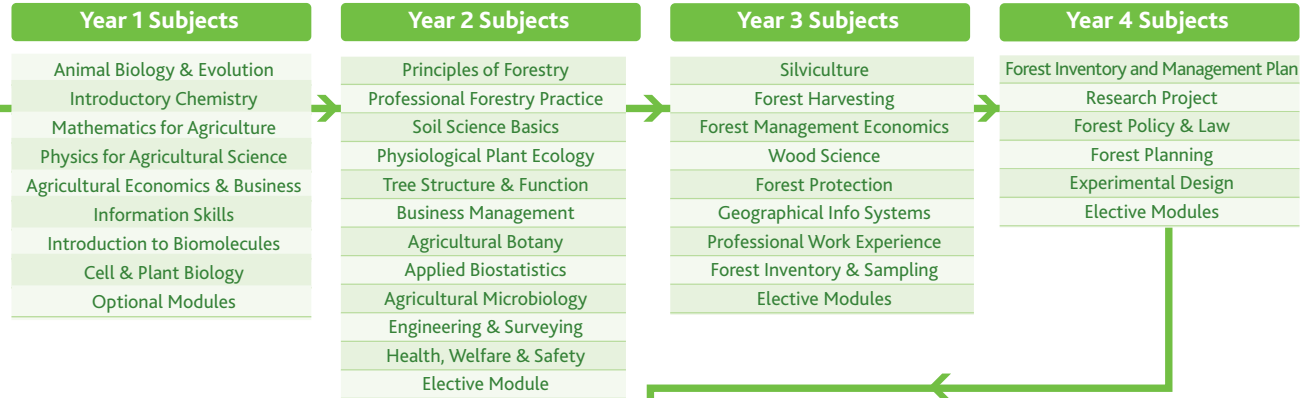
(Calculations do not include maths bonus of 25 points)

\*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](http://www.ucd.ie/registry/admissions/er.html) prior to submitting an application to determine the entry requirements for a particular programme.

# Programme Pathway

## Forestry

DN250



## BAgrSc Honours



## Graduate View

**Stephen Sheridan** | Forestry Inspector,  
Department of Agriculture, Food and the Marine

Studying Forestry in UCD has equipped me with the knowledge, skillset and passion to work in a range of challenging and demanding roles in the Irish Forestry sector. The diversity of the core modules along with the combination of classroom, laboratory, PWE and field-based lectures created a challenging and enjoyable learning environment.

After graduation I worked in a commercial setting where my role involved working with private forest owners to manage, mobilise and harvest their woodlands in a sustainable and economical way whilst adhering to the very best silviculture practices. Currently I work for the Department of Agriculture, Food & Marine in Forest Protection. Our focus here is on protecting Ireland's forests and woodlands from invasive pests and diseases. These two roles are distinctly different but my studies at UCD have ensured that I could confidently apply my learnings to both.

As the benefits of forestry to the social, environmental and economic wellbeing of the country are becoming increasingly clear to the public so too is the importance of having suitably qualified people to manage and care for these resources. Studying the forestry programme in UCD has the potential to open many doors for anybody who wishes to pursue a career in this area.



## Student View

**Emma Reilly** | Year 3

The forestry programme at UCD offers a wide range of both practical and academic modules. This combination of learning provides a fun and interactive experience which makes the course thoroughly enjoyable. This had a major influence on my decision to undertake this course in UCD.

The PWE opportunity on this course provides students with leading practical experience

from within the forestry sector and allows you to apply the skills you have learned in the classroom in the real world. Throughout the first two years you are provided with a high calibre of core science modules which give you a great foundation.

The forestry industry in Ireland is growing and the demand for graduates in this field is increasing year after year. As a result of my experience in UCD and of this course, I would highly recommend anyone who was thinking of choosing it, to do so.

### WATCH ONLINE

Learn more about where a degree in forestry can take you.



# Horticulture

DN250

## Why Horticulture?

Horticulture is the art, science, technology and business of plant cultivation for human use.

Our world faces immense challenges; climate change, mass migration from the countryside to mega cities, food shortages, excess consumption, food waste and pollution. Through the sustainable cultivation of plants and an increase in plant-based diets, many of these challenges can be overcome. Plants provide the oxygen we breathe, the food we eat, our shelter and medicines, and they bring living colour to our lives. This course covers the sciences, environmental studies, business, management and communication skills related to growing food and non-food plants. You will also study 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.

DN250

## Horticulture

*For entry to the Horticulture programme in 2021, students will apply via the DN250 CAO Code.*

### CAO Points

**Minimum 2020** (Round 1) **297**

**Minimum 2019** (Round 1) **252**

**Minimum A Level 2019:** CCD or BB

(Calculations do not include maths bonus of 25 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](http://www.ucd.ie/registry/admissions/er.html) prior to submitting an application to determine the entry requirements for a particular programme.





## Graduate View

**Conor Cullen O'Reilly** | Horticulture Lecturer  
- College of Agriculture, Food and Rural Enterprise (CAFRE), Northern Ireland



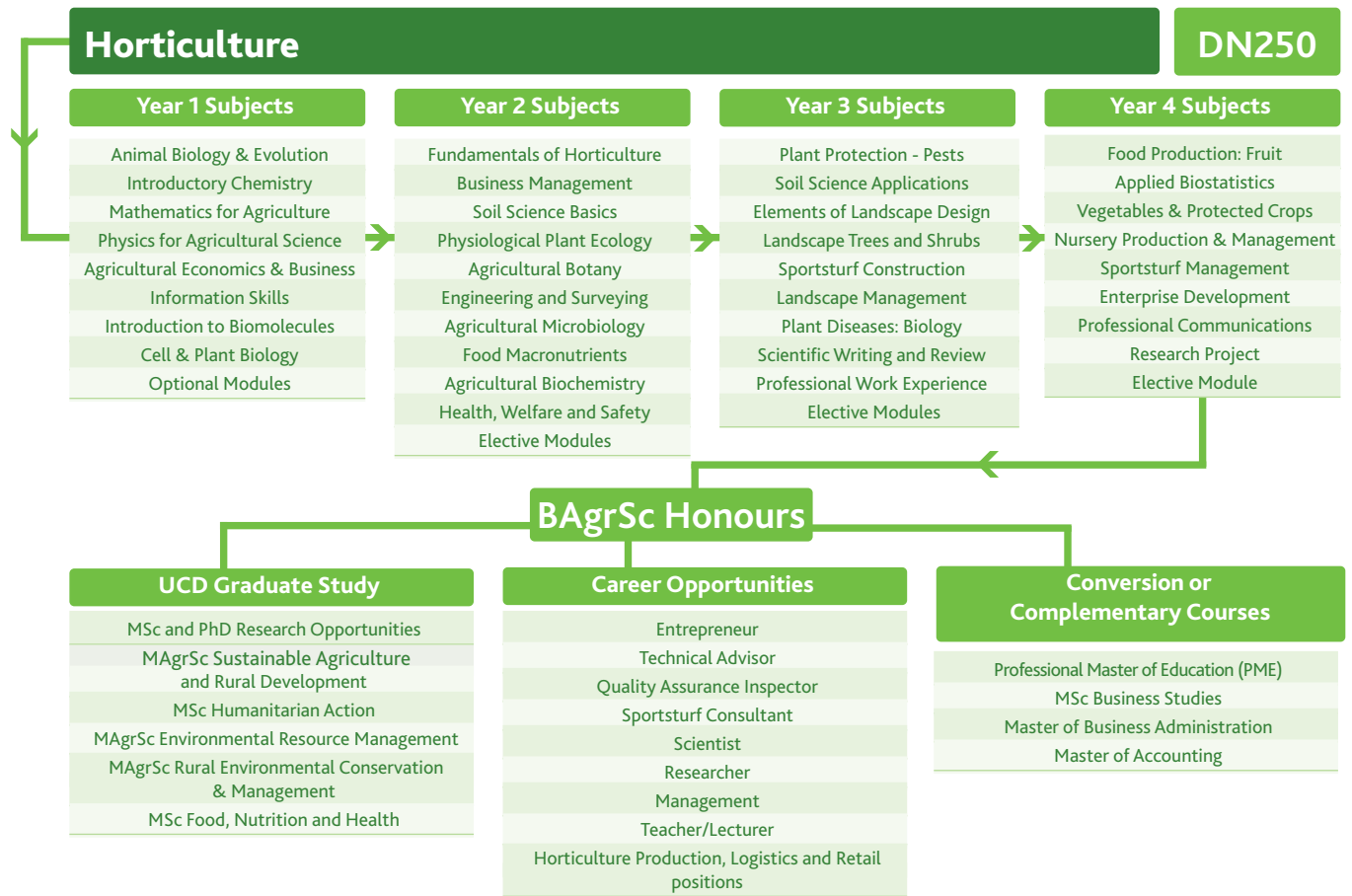
The Horticulture course at UCD covers a wide breadth of topics, such as science, business, design and practical horticultural knowledge. Gaining experience in these areas opened my eyes to topics I would have never thought of before beginning the course, including the importance of soil health in improving crop production and sustainability. This was the subject of my final year research project.

I particularly enjoyed my professional work experience placement in the Horticulture Division of the Department of Agriculture, Food and the Marine. During this time, I worked on biosecurity inspections and awareness raising campaigns relating to the prevention of invasive plant pests and pathogens entering Ireland. This experience directly helped me to secure a job with the College of Agriculture, Food and Rural Enterprise in Northern Ireland, where I now work as a Horticulture Lecturer. The staff in the horticulture section in UCD were friendly and approachable throughout my time there and I would thoroughly recommend the course.



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

# Programme Pathway



## Graduate View

**Niamh Flannelly** | Graduate

This broad course suited my interest in both the horticulture and sportsturf industry.

My best experience from UCD was getting the opportunity to travel to Canada for my professional work experience where I assisted in a million-dollar project constructing six new holes on an exclusive golf course, with TDI International. I also assisted in soccer pitch

development and construction and green space development. This was something I would have never imagined doing before I came to UCD and it took me out of my comfort zone. During my final year of the Horticulture degree programme I developed a strong interest in the area of sustainable agriculture and sustainable food production systems. This led me to undertake a Masters's in Sustainable Agriculture and Rural Development at UCD where my minor thesis focused on sustainable vegetable production in Ireland.

# Food Science

DN261



## Why Food Sciences?

Food Science focuses on the biological, chemical and technological aspects of food products and how they are manufactured. If you choose to specialise in Food Science, you will develop your scientific knowledge of how to produce high quality, safe and healthy foods and beverages.

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 is accredited by the Institute of Food Technologists and ensures students develop the knowledge and skills required for a successful career in the food industry.

**DN261**

## Food Science

### CAO Points

**Minimum 2020 (Round 1) 477**

**Minimum 2019 (Round 1) 451**

### Minimum A Level:

A\*AB or AAA

(Calculations do not include maths bonus of 25 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](http://www.ucd.ie/registry/admissions/er.html) prior to submitting an application to determine the entry requirements for a particular programme.



## Student View

Jennifer Olatunji | Year 4

Attending the UCD summer school confirmed my ambition to pursue studying Food Science at UCD. The campus is breath-taking, and the day gave me a great insight into the degree programme and career prospects. I have always been intrigued by food products in supermarkets and would question what exactly a food label meant. I had a keen interest in the commercial side of food, but I wanted to gain a thorough understanding of the entire food chain from production to the supermarket shelf.

In third year, I completed a semester abroad in Kansas State University which was undoubtedly the best decision I made during my time at UCD. I was lucky enough to attend the Agriculture Future of America's Leaders Conference in Missouri spending four days with academic and industrial agricultural leaders.

UCD is a fantastic university in terms of developing your skills. During the summer of second year I completed a Global Food Summer School at Wageningen University in The Netherlands where I got the opportunity to study and live with other students passionate about food from across the globe. I even got to work with Mars and Heineken on new product development cases. I also participated in a 9 month 'Coaching with purpose' mentoring programme with Kerry Foods during which I was paired with their Marketing Director.



## Food Science

DN261



## Graduate View

Brian O'Connell | Regulatory Technologist - Kerry Group

The Food Science degree offered in UCD is a very dynamic, broad course that is perfect for anyone with a scientific interest in food and nutrition. There are many interesting modules throughout the course such as Product Development, Food Chemistry and Human Nutrition which involve completing well designed projects, assignments and laboratory work.

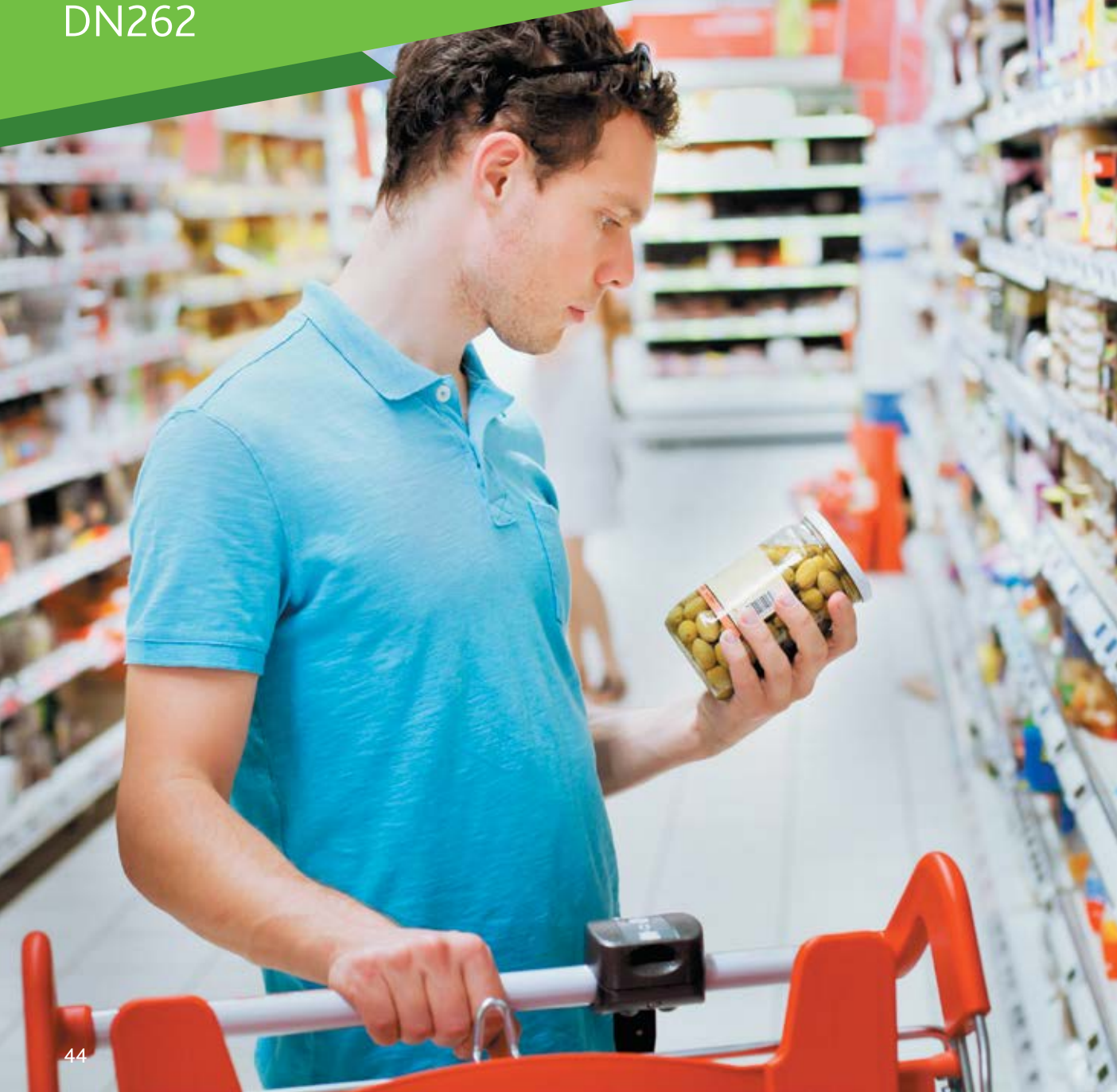
One of the highlights of the course is professional work experience in third year. I completed my professional work experience with Glanbia as a whey quality assistant. This was a hugely enjoyable and beneficial part of the course and gave me a good insight into the food industry. The skills I obtained throughout my time in UCD have stood to me in my current role with the Regulatory Department in Kerry Group, where I manage technical data for new and existing products, ensuring that accurate and timely information is supplied to major customers in the food industry, R&D, manufacturing and commercial teams.



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

# Human Nutrition

DN262



## 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.

DN262

## Human Nutrition

CAO Points

Minimum 2020 (Round 1) 531

Minimum 2019 (Round 1) 495

### Minimum A Level:

A\*A\*B or A\*AA+ C@ AS level

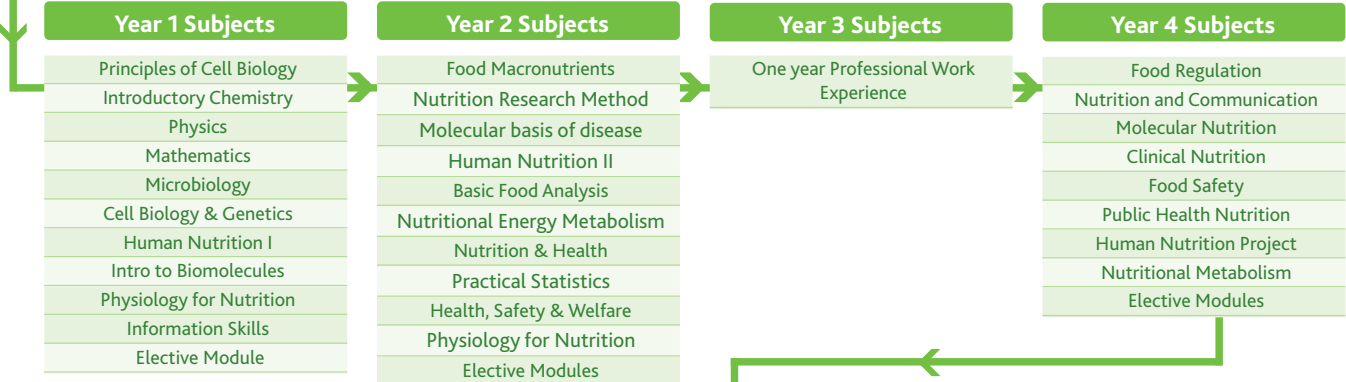
(Calculations do not include maths bonus of 25 points)

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# Programme Pathway

## Human Nutrition

DN262



## 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
Professional Master of Education (PME)
MSc Business Studies
Master of Business Administration
Master of Accounting



## Student View

Sophie Callanan | Year 4

My interest in Biology and Home Economics in school combined with a personal passion for food and health influenced my decision to study Human Nutrition. Since the day I accepted my CAO offer I have never looked back. I have enjoyed studying a broad range of modules delivered by outstanding lecturers who are experts in their field. UCD have an excellent support system for all students for the duration of their studies, but especially in the early days to ease the transition from school to university life.



From the start of my journey in UCD, I have thrived academically far beyond my expectations. I was delighted to be awarded an Ad Astra academic scholarship for my academic results in first year. I was also awarded the Glanbia Human Nutrition Medal and the Bachelor of Science (Human Nutrition) scholarship.

For my PWE placement, I was lucky enough to work alongside the team in the Perinatal Research Centre in the National Maternity Hospital. This was an incredible experience that has opened my eyes to the opportunities in nutrition research that lie ahead.

Human Nutrition is an exciting, up and coming area of study with endless opportunities. I would strongly recommend anyone interested in pursuing a career in food and health to choose UCD as the place to start your journey.



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



## Student View

Michael Rossiter | Year 2

My fascination with the role diet plays in promoting health was the reason I chose to study Human Nutrition at UCD. Nutritional science is an area that can be often overlooked when it comes to health, but its role cannot be of greater importance.

The Human Nutrition programme hosts a small class size, enabling the lecturers to provide close support to students. I found the small class size a comforting start to college life and

it has resulted in a very close group of friends within the course. The teaching methods employed within the course give a full 360° view of the area of nutritional science from lectures, to lab work and small tutorial sessions to reinforce learning.

For my professional work experience, I will be part of a research team in Newcastle University. I am eager to put the knowledge I have acquired in UCD to practice in a workplace setting. I am currently serving as the Auditor of the Nutrition Society; a role that has allowed me to channel my passion for nutrition outside of the curriculum.

# ALUMNI SPOTLIGHT



Mairead McGuinness

European Commissioner for Financial Stability, Financial Services and the Capital Markets Union



Richard Kennedy

Group CEO, Devenish  
EY Entrepreneur of the year & EY International Entrepreneur of the year 2019



Gillian Willis

Small Business Development Manager,  
Bord Bia



Tendai O'Connor

Brand Manager, Pernod Ricard  
2019 Grad Ireland – Employee of the Year



Daniel Davey

Performance Nutritionist  
Dublin GAA & Leinster Rugby



Anne-Marie Butler

Senior Agricultural Manager, Ulster Bank & President, Agricultural Science Association



Bill Callanan

Chief Inspector,  
Department of Agriculture, Food and Marine

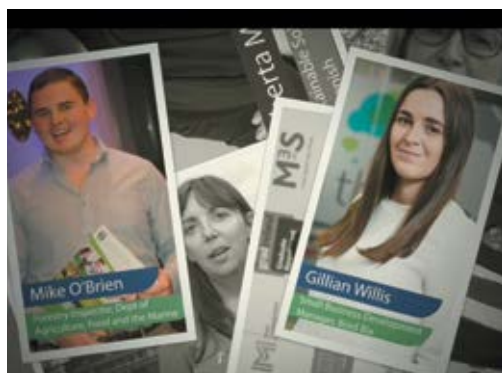


Anna Ferguson

Category Manager, Lidl

# FURTHER INFORMATION

In addition to this prospectus further information on the Bachelor of Agricultural Science, BSc in Food Science and BSc in Human Nutrition degree programmes are available through a variety channels as outlined below.



## TESTIMONIALS

Students and alumni share their experience of their time at the UCD School of Agriculture and Food Science.

[www.ucd.ie/agfood/study](http://www.ucd.ie/agfood/study)



## INFORMATION VIDEOS

Watch a series of virtual information videos featuring academic staff and students from across all programmes.

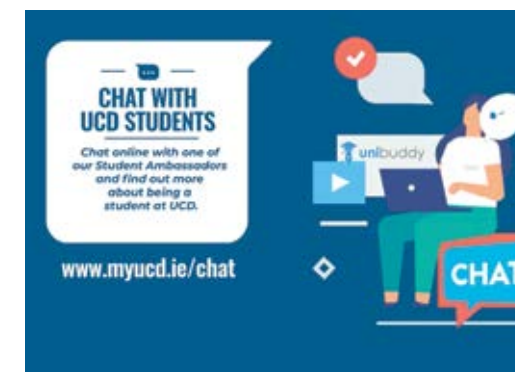
[www.youtube.com/agfood](http://www.youtube.com/agfood)



## UPCOMING EVENTS

Information events will be hosted throughout the year as you make your decision about your future study plans.

[www.ucd.ie/agfood/newsandevents](http://www.ucd.ie/agfood/newsandevents)



## CHAT WITH STUDENTS

Want to find out more about student life? Chat with our student ambassadors and ask any questions you have.

[www.myucd.ie/chat](http://www.myucd.ie/chat)

## FOLLOW US

Follow our social media channels for up to date information and announcements





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**Chat:** [www.myucd.ie/chat](http://www.myucd.ie/chat)



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.