

### UCD AGRICULTURE, FOOD SCIENCE AND HUMAN NUTRITION

UNDERGRADUATE PROGRAMMES 2022 ENTRY









# CONTENTS

Dean's Welcome	5
What to Expect	6
Professional Work Experience	8
Study Abroad	10
Careers	12
Alternative Entry and Progression	14
UCD Lyons Farm	16
DN250 Agricultural Science	18
DN250 Agricultural Systems Technology	20
DN250 Agri-Environmental Sciences	22
DN250 Animal and Crop Production	24
DN250 Animal Science	26
DN250 Animal Science-Equine	28
DN250 Crop Science	30
DN250 Dairy Business	32
DN250 Food and Agribusiness Management	34
DN250 Food Business with Chinese Studies	36
DN250 Forestry	38
DN250 Horticulture	40
DN261 Food Science	42
DN262 Human Nutrition	44
Alumni Spotlight	46
Further Information	47

### **UCD School of Agriculture and Food Science**

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**1st destination of choice in Ireland** for students interested in studying Agriculture and Food Science



**Ranked 51st Globally** for the study of Agriculture and Forestry.



Agricultural Sciences at UCD is ranked 1st in Ireland, 5th in Europe and 20th globally

(US News and World Report Subject Rankings 2022)



**Opportunity** 14 Undergraduate Programmes



International Opportunities 19 Exchange Partner Universities

### тор **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

350+ Undergraduate places on offer annually





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 183 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. We are proud of the School's long tradition, its roots dating back to the Albert College and the Glasnevin Model Farm 1838. Now, ranked number one in Ireland, twentieth 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 research, discovery 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 subjects central to many of the major global challenges of today. These include, food production, food security, non-food land uses, environmental sustainability, security, non-food land uses, 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, climate change, 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 163,600 people or 7.1% 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, from farm to human nutrition and health, 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. We pride ourselves not only in the quality of the educational experience our students receive but also in the School's culture which champions the principles of equality, diversity and inclusion.

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

Frank J. Monahan

**Professor Frank Monahan** Dean of Agriculture and Head of School UCD School of Agriculture and Food Science We pride ourselves not only in the quality of the educational experience our students receive but also in the School's culture which champions the principles of equality, diversity and inclusion.

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# 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 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 nonacademic 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 team and Student Adviser will be available to provide guidance and support in relation to any personal, social, academic or practical issues.

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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 was the highlight of the course.

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 | Dairy Business



# 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 following table. 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.



#### Each year approximately:



Students take their PWE placement overseas



Students participate in over 110 international placements



Students travel to over 15 international destinations



Industry-funded Travel Bursaries are awarded

Awards for PWE Placement Excellence



#### **Student View**

Laura Daly | Animal and Crop Production

PWE has been the highlight of my four years in UCD. The UCD School of Agriculture and Food Science has strong connections within the agri-food sector globally which helped me secure an excellent opportunity overseas. I travelled to New Zealand and worked on a 550 hectare dairy farm in Mid-Canterbury milking 2250 cows. I enjoyed the challenges and responsibilities and came home with a wealth of knowledge that influenced my career path. It also helped in my decision to focus on advanced dairy and grassland management modules when deciding what subjects to chose in final year. Working, travelling, and exploring another country was a distinct highlight of this course and one that I know will benefit my future career. Ireland is a global player in the agri-food industry and having the opportunity to travel and gain a global understanding was an invaluable experience for me.

# **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 some of the top universities in America, Australia, Europe, New Zealand and the United Kingdom under established exchange programmes. In 2021 a record number of 53 students will study abroad.

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. Kansas State University values our partnership with the UCD School of Agriculture and Food Science. The students that we have received from UCD have been exceptional and have taken advantage of the many opportunities available through K-State."

**Sara Boro** Kansas State University





#### **Student View**

Daniel Trass | Food and Agribusiness Management

The highlight of the degree for me was the opportunity to travel. I spent the first semester of third year in Cornell University in upstate New York, for which I received a Student Exchange Scholarship. The experience of studying at an Ivy League University is something I will never forget, as well as the friends I made and the opportunity to travel around America.

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DAWN MEAT

I was honored to spend my final year in UCD as Chair of the AgSoc Careers Committee. Despite restrictions the opportunities available and presented to final year students throughout the year was remarkable. The quality of graduates from the UCD School of Agriculture and Food Science is unrivaled and companies hold this in high regard. I'm truly amazed at the variety of fulfilling and challenging roles which await us as we enter a defining era in the Irish Agricultural and Food sector.

#### Sean Tonra

Careers Committee Chair, Agricultural Science Society 2020-2021

# 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 in Ireland and abroad.

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 sustainable 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. The most recent Agriculture, Food Science and Human Nutrition Careers day was attended by a record number of over 50 exhibitors.

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:

163,600

€14.2bn

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

Value of Ireland's agrifood exports in 2020

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:











#### **Graduate View**

Dr. Anne-Marie Butler

President, Agricultural Science Association 2020-21

The Agricultural Science Association (ASA) has science at its core and represents the scientific interests of its 2,000 members. In my role as ASA President, I'm continuously meeting graduates from the UCD programmes. These graduates are highly regarded across the industry and noted for their strong basis in science . The school offers a tremendous network of lecturers who are there to support you through your learning and beyond. The degrees are well-grounded, practical and proven and can lead to tremendous possibilities.

I completed my undergraduate degree in the UCD School of Agriculture and Food Science. It was a wonderful platform for me to start my career and led me into a postgraduate degree following some time spent studying in the United States. Having enjoyed 13 years with Ulster Bank as Senior Agricultural Manager, I look forward to my new position with Teagasc as Head of Education.



Watch previous Agriculture, Food Science and Nutrition Careers Day on demand **o ucdagfood**  UCD is a University for All where Access and Inclusion is everyone's business. No two students are the same and every student arrives with their own unique story to tell.

Access and inclusion are embedded into UCD's values and strategy. Our teaching, learning and assessment practices are flexible and inclusive for all students.

UCD Access and Lifelong Learning ACCESS ACCESS LEADER LEADER

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# 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 Alternative Entry and Progression Pathways available are

- HETAC Higher Certificate/Ordinary Degree
- QQI-FET progression
- Open Learning (New 2022 Entry)
- 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
- University Access Courses



#### Student View

#### Áine Corkery | Animal and Crop Production

When I entered my sixth year of secondary school, I was unsure of what I wanted to do after completing my leaving certificate, so much so that I repeated my leaving certificate to buy myself more time to decide. I always knew that I had a passion for animals and agriculture, and I had researched many different college prospectuses but couldn't find any course that really took my interest.

I then attended the UCD Open Day where I went to one of the Agricultural Science talks and from that moment on I never looked back. Thankfully with the help of DARE and the team at UCD Access and Lifelong Learning, which is an irreplaceable resource for students entering UCD via an alternative entry or progression pathway, I was able to accept my CAO offer in 2019.

UCD, the UCD School of Agriculture and Food Science and Ag Soc have provided me with an abundance of opportunities and knowledge that I never would have imagined for myself before starting my course here.



#### Student View

#### Seán Murphy | Agricultural Science

Coming from a farming background, a career in agriculture was something I always wanted to pursue. Having explored the excellent teaching, laboratory, and research facilities at the UCD School of Agriculture and Food Science and having visited the campus for the UCD Open Day, studying Agricultural Science at UCD was what I aspired to do.

After my Leaving Certificate I completed a PLC in Laboratory Techniques. This course covered a broad range of science subjects, computer and laboratory skills which benefited me greatly in my first year of college. Following the completion of this course I was successfully offered a place on the UCD Agricultural Science programme.

There are many societies to join at UCD which help you settle in and get to know people while enjoying the wonderful social aspect of the UCD campus. I played hurling for UCD and was delighted to be part of an All-Ireland League Hurling winning team.

I would highly recommend studying Agricultural Science at UCD as it covers a broad range of topics offering excellent and varied career opportunities following graduation.





# **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 34% of national emissions),
- The need to reduce the fossil fuel inputs into agricultural production.

On many BAgrSc 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 busy lambing season 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 and multispecies mixture with grasses, legumes and forage herbs.

This platform will allow UCD researchers to investigate the long-term sustainability and resiliance 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.



WATCH ONLINE Check out our new video on UCD Lyons Farm

🖸 ucdagfood

### Agricultural Science DN250

18

# WHY AGRICULTURAL SCIENCE?

From animal science to farm management, addressing the climate challenge, 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 would like to specialise in, you can select this on your CAO application.

Students interested in progressing to the Food Business with Chinese Studies, Agricultural Systems Technology or Dairy Business degree must undertake specific 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 brochure.





#### DN250 Agricultural Science

CAO Points Average 2021 (Round 1): 504

#### Minimum A Level 2020: AAB or ABB +B @AS level (Calculations do not include maths bonus of 25 points)

### Agricultural Systems Technology

DN250

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.

Why Agricultural Systems

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

**Technology?** 

wingfood Awards Ceremony

#### DN250 Agricultural Systems Technology

**CAO Points** Average 2021 (Round 1): 504

**Guidelines for A-Level applicants based on 2021 entry requirements:** A\* AAe (Calculations do not include maths bonus)

#### **Agricultural Systems Technology DN250** Year 1 Subjects Year 2 Subjects Year 4 Subjects Year 3 Subjects Animal Biology & Evolution Agricultural Eng Principles Agri Mech: Engines and Crops Capstone Project Introductory Chemistry Food Physics Agri Mech: Hydraulics & Component Life Cycle Assessment Mathematics for Agriculture Animal Nutrition **Biosystems Eng Research Trends** Waste Management Physics for Agricultural Science Soil Science Basics **Business Management** Quantitative Risk Assessment Agricultural Economics & Business Principles of Crop Science **Grass & Forage Production** Precision Livestock Mgmt Information Skills Health, Welfare & Safety Numerical Methods for Agriculture **Optical Sensing Technology Biosystems Engineering** Introduction to Programming Sensors and Sensing **Precision Agriculture** Design Challenge Food Macronutrients Professional Work Experience Farm Business Mgmt Cell & Plant Biology **Applied Biostatistics** Applied Programming **Elective Module Optional Modules** Agricultural Microbiology Geographical Information System **Elective Modules** Databases & Information Systems **BAgrSc Honours UCD Graduate Study Career Opportunities Conversion or Complementary Courses MEng Food Engineering Technical Engineer** Technical Sales Manager MSc and PhD Research Teacher/Lecturer Scientist Professional Master of Education (PME) MSc Food Safety & Risk Analysis **Production Manager Environmental Consultant MSc Business Studies** MSc Public Health Farm Manager Project Manager Master of Business Administration MAgrSc Sustainable Agriculture **Operations Manager** Food Processing **HDip Computer Science** and Rural Development **Policy Analyst** Banker Master of Accounting MAgrSc Environmental Resource **Business Manager** Students interested in progressing to the Agricultural Systems Technology degree Management

through the omnibus route are advised to study Mathematics for Agriculture I (MATH10240) in Year 1.

#### **Student View**

#### Claudia McCormick

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 Agricultural Systems Technology (AST) programme 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.

#### **Graduate View Oisín Gryson** | Food and AgriBusiness, *ifac*

Growing up on a dairy goat farm, agriculture has always been one of my major passions in life. So, when it came to deciding which college course I wanted to do, Agricultural

#AgCredible



Science in UCD was my number one choice. Following first year in omnibus, I chose to specialise in Agricultural Systems Technology. With small class sizes, this degree allowed you to have great interaction with the lecturers and also meant you grew closer to your classmates. I joined the UCD GAA team during my second year. My current job in the *ifac* Food and AgriBusiness department allows me to work in the sector which I am most passionate about. We work as strategic consultants to food and agribusinesses whether they are looking to start a farm diversification project or an established business looking to access corporate finance. My degree played an integral role in helping me to secure my current position. It allowed me to expand my understanding of the agricultural sector and helped me to develop an alternative way of handling challenges.

Ag Credible Academy

My advice to anyone studying Agricultural or Food Science in UCD would be don't be afraid to try something different and step out of your comfort zone.

### Agri-Environmental Sciences

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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 2022, students will apply via the DN250 CAO Code.

#### CAO Points Average 2021 (Round 1): 504

#### **Guidelines for A-Level applicants based on 2021 entry requirements:** A\* AAe (Calculations do not include maths bonus)



#### **Graduate** View

Jamie Nolan | Climate Action Department, Louth County Council

I have always had an interest in the environment and how human activities impact it. With my background in agriculture and

having this interest, I thought Agri-Environmental Sciences (AES) would be a good programme choice for me and it didn't disappoint. I acquired a vast amount of knowledge about Ireland's diverse landscape and how agricultural activities are affecting it in both positive and negative ways.

AES was a very practical programme thanks to the large amount of field trips to various locations. The programme gives you a lot of freedom and allows you choose your own path in areas that you have a specific interest in through elective modules, PWE and your final year thesis. I spent my professional work experience working in a local Teagasc office alongside an Agricultural Consultant and in an environmental composting factory. My thesis focused on habitat diversity in dairy farms and required me to carry out habitat surveying on farms using GIS software to create maps containing the results.

Since graduating I have completed a MSc in Environmental Resource Management and subsequently worked in the Central Statistics Office in the Sustainable Development Goals department. I am currently working in the Climate Action Department of Louth County Council where I am working on developing future climate action plans.





#### **Student View**

#### Alison Bourke

I always had a strong passion for the environment and Irish agriculture and this led me to choose Agri-environmental science. Agri-environmental science provided me with a valuable insight into the challenges that Irish agriculture currently faces. Climate change has and will continue to force the agricultural sector in Ireland to change, adapt and evolve to meet this new environmental landscape. This degree combines learning through field work, practical's and lectures to give the best learning experience and provides invaluable practical knowledge. PWE was a great opportunity to use my knowledge in the real working world and I gained a huge amount from this aspect of the degree. I am confident that the knowledge and skills learnt relating to both farming and environmental protection will be invaluable in my future career. UCD provided me with the chance to try new things from a ski trip with UCD Snowsport to kayaking in Clare with UCD Canoe Club.

### 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 Average 2021 (Round 1): 504

**Guidelines for A-Level applicants based on 2021 entry requirements**: A\* AAe (Calculations do not include maths bonus)





#### **Student View**

#### Edel Cashman

Growing up on a dairy and poultry farm in Cork, I always had a keen interest in agriculture. Upon hearing about the Agricultural Science degree in UCD, I knew it was the programme for me. I entered through the omnibus route which offered fantastic flexibility to learn where my interest lay. In third year, I was awarded an industry sponsored scholarship towards the cost of my PWE. The experience gained on PWE is invaluable and has greatly benefitted both

my knowledge and my personal development. Being a member of AgSoc has been a huge part of my time in UCD, helping me to get to know my classmates, and the events organised by the society ensured each semester was one to remember. The combination of practical and theory-based learning in Stage 4, through lectures and field trips to UCD Lyons Farm has, I feel, prepared me very well for my entry into the Agri-Food industry. Due to a longterm illness, I had many dealings with the programme office, and I cannot praise them enough for their constant support, often going above and beyond to help me.

#### **Graduate View**

#### **David Fogarty** | Dairy Farmer

When I heard about Agricultural Science at UCD during 6th year at school, I was quietly confident that it was the 3rd level course for me. It would combine my main interests of

Science, Agriculture & Business all-in-one. I studied Omnibus in first year and opted for Animal & Crop Production from there on.

PWE in 3rd year affords a great opportunity to get out and experience the Agri-sector for yourself. I was lucky to have worked with top-class farmers and progressive businesses during this period and it definitely helped me decide what direction I wanted to develop my career in after graduation.

After my four years at UCD, I decided I wanted to travel overseas and experience grass-based dairying in New Zealand. My UCD degree was instantly recognised by the farmer I applied to for a job. Spending 3 years farming in New Zealand firmly set my mind on dairying when I returned to Ireland. Since moving home, I have managed two large dairy farms in Kilkenny & Wexford. Looking back on my career to date, UCD gave me a solid foundation from which to build my future in the agricultural industry.



### **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. This 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** Average 2021 (Round 1): 504

**Guidelines for A-Level applicants based on 2021 entry requirements:** A\* AAe (Calculations do not include maths bonus)



#### **Student View**

#### Bríd Garry

I choose to study Animal Science at UCD as I felt it would give me a broad view and an in-depth knowledge of the Irish agricultural sector while learning from some of the best agricultural science lecturers in Ireland.

When I arrived at UCD the place felt so big and daunting, however during orientation students were assigned to peer mentor groups. These groups enable you to meet people from your course in a smaller setting and make friends from day one. I lived on campus and got to mix with students that were completing courses in different faculties across UCD which was a great experience.

The lecturers are excellent and are more than willing to give any help needed. UCD has both a Maths Support Centre and Writing Centre available which are great facilities to have. I found attending labs and practicals helped me put the information learned in lectures into practical use. Having access to UCD Lyons Farm is a huge asset when completing a degree in UCD. Students get to see how the best farming practices and knowledge learned is applied to day-to-day farming. We also get to experience how research trials take place in case you decide to go on and complete a Masters or PhD at UCD Lyons Farm.

For my PWE I got to work on some of the most progressive farms and businesses in Ireland. I was lucky enough to be awarded the "KEPAK Excellence in PWE Award" for which I received a bursary. PWE was the highlight of my time in college and showed me how many opportunities are open to us in the agricultural industry when we graduate.

Animal Science			DN250
Year 1 Subjects	Year 2 Subjects	Year 3 Subjects	Year 4 Subjects
Animal Biology & Evolution Introductory Chemistry Mathematics for Agriculture Physics for Agricultural Science Agricultural Economics & Business Information Skills Introduction to Biomolecules Cell & Plant Biology Land use and Environment Introduction to Animal Science Introduction to Crop Science Optional Modules	Genetics & Biotechnology Animal Nutrition I Applied Biostatistics Business Management Agricultural Microbiology Soil Science Basics Buildings & Environment Agricultural Biochemistry Health, Welfare and Safety Elective Modules	Animal Reproduction Animal Breeding Animal Physiology Animal Genomics Food Microbiology Professional Work Experience Exp Design & Data Analysis Animal Nutrition II Elective Modules 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
UCD Graduate Study	BAgrSc Ho Career Op Teacher/ Lecturer	portunities	Conversion or Complementary Courses
MAgrSc Sustainable Agriculture and Rural Development MagrSc Environmental Resource Mgt MAgrSc Agricultural Extension and Innovation Walsh Fellowship Research	Production Manager Farm Manager Journalism Agricultural Consultant Agricultural Inspector Communications Manager	Quality Assurance Officer Technical Engineer Policy Analyst Government Official Business Manager Technical Sales Manager	Professional Master of Education (PME Graduate Veterinary Medicine MSc Business Studies Master of Business Administration HDip Computer Science

#### **Graduate View**

Niall Hurson | Researcher, Ear to the Ground - RTÉ The wide variety of career paths available to Animal Science graduates is one of the key reasons I decided to study at UCD. It was during PWE in third year where I found my interest in agri-journalism. As Agriculture and Rural Affairs Editor with The University Observer, UCD's student newspaper, I was able to further this interest. Since graduating in 2020, I have worked for the Irish Farmers Journal as a News Correspondent. I have been awarded the 2020 Simon Cumbers Media Fund and as part of this project I will travel to Ethiopia, exploring climate action and agriculture in the region. Currently, I work for RTÉ's Ear to the Ground as a Researcher. Animal Science at UCD is a springboard to endless opportunities. While agriculture has its challenges, it's a sector where UCD graduates thrive. With ongoing shifts in agriculture policy, UCD graduates are at the coalface, influencing how the sector will meet its targets. After four years at UCD you will have all the academic and professional skills to meet these challenges.

### 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 Average 2021 (Round 1): 504

**Guidelines for A-Level applicants based on 2021 entry requirements:** A\* AAe (Calculations do not include maths bonus)



#### **Student View**

#### **Megan Sheedy**

Having grown up surrounded by horses in the heart of Tipperary and being an active member of the Irish Pony Club and Riding Club Association, choosing Animal Science-Equine at UCD was a given for me.

During my 4 years at UCD I learnt about the theoretical and practical aspects of the equine industry through lectures and field trips. Classes included exercise physiology, nutrition and genetics and were delivered by experts that are passionate about this subject area. This course provided me with the foundation I need to pursue a career in the equine industry.

Outside of class I enjoyed engaging in college life and was an active member of Agsoc, RacingSoc and the Equestrian club. I completed my PWE in third year with the horse racing trainer Aidan O'Brien in Ballydoyle. Here I gained practical experience riding and caring for racehorses during their racing career. I got an insight to the tremendous work and passion that goes into creating a successful racehorse. I was given the opportunity to learn about all aspects of it from riding out in the morning to working with water treadmills and pools in the evening. I thoroughly enjoyed my time there.

UCD has been unforgettable and has provided me with lifelong friends and memories. I hope to use my degree to help me follow my aspirations of being successful in the Equine world.





#### Graduate View

#### Christopher Farrell | Magic Millions

I graduated from the Animal Science – Equine programme in UCD in 2015 and I am currently working in Australia as a Bloodstock Consultant and Auctioneer for Magic Millions. I found the course very enjoyable. Over the four years it was very much agriculture and equine based. In third year, I got the opportunity to travel to Japan for six months and work on a commercial stud farm which really helped my decision with regards to developing a career after college.

The lecturers in UCD such as Dr Barbara Murphy and Prof. Emmeline Hill are world leaders. You are surrounded by some very intelligent people that want to see you do well in the industry. I'd highly recommend this course to anybody interested in developing a career in the equine industry.

# Crop Science





#### 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** Average 2021 (Round 1): 504

**Guidelines for A-Level applicants based on 2021 entry requirements:** A\* AAe (Calculations do not include maths bonus)



### Exciting new Crop Sciences programme at UCD

The new Crop Science programme offered at the UCD School of Agriculture and Food Science was launched in 2021 and 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. 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.





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

#### 🛞 CONSUS

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 with €5.1 billion of dairy products exported to approximately 143 countries in 2020, 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 2022, students will apply via the DN250 CA0 Code.

**CAO Points** Average 2021 (Round 1): 504

**Guidelines for A-Level applicants based on 2021 entry requirements:** A\* AAe (Calculations do not include maths bonus)



MSc Food Safety & Risk Analysis

\* Students interested in progressing to the Dairy Business degree through the omnibus route are advised to study Introduction to Management (BMGT10060) and Business Plan (BMGT10140) in Year 1.



#### **Student View**

#### Shane Galligan

Studying Dairy Business in UCD has being the most fulfilling experience. The course has provided me with vast knowledge and skills in what is a hugely exciting sector. 3rd year was the highlight for me. I spent 20 weeks working on a large-scale dairy farm in New Zealand. Subsequently, learning from renowned researchers in Teagasc Moorepark on topics such as grassland management & breeding

was a brilliant experience. Being exposed to some of the experts in the country and being partnered up with a mentor farmer on whom we completed a farm project really helped me in understanding the key metrics and practices which make these farmers so efficient. I hope to pursue an exciting career in the dairy sector and I believe this course has equipped me with the necessary skills and technical ability to succeed in what is a hugely exciting but everchanging sector.

#### **Graduate View**

Mento

#### **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.

### Food and Agribusiness Management

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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** Average 2021 (Round 1): 504

**Guidelines for A-Level applicants based on 2021 entry requirements:** A\* AAe (Calculations do not include maths bonus)



#### **Student View**

#### **Isobel Jones**

I chose the Food and Agribusiness Management programme as it combines business and agriculture. I am not from an agricultural background nor did I study Agricultural Science for my Leaving Certificate but this did not hinder me whatsoever. The friendly and welcoming nature of every Agricultural science student made it extremely easy for me to make friends. I joined the school debating team and competed in the All-Ireland Great Agri-Food debate.

I completed my PWE in third year at Deloitte where I worked as part of the Debt Advisory team working for clients within the food industry. This integrated work experience is a reason why I chose this course as it gave me an opportunity to sample a corporate office environment, before committing to a full-time job.

I also completed a semester abroad at Cornell University, New York. This is one of the many advantages to studying at UCD. Their partnership with an IVY League University meant that I got to spend four months studying in upstate New York, sampling life as an American college student and learning from world-renowned professors. We took every opportunity to travel during our stay and visited Toronto, spent thanksgiving in Montreal, watched an NBA game in Boston and of course spent a couple of days in the city that never sleeps. I was awarded a UCD Student Exchange Scholarship, which helped with some costs associated with the semester.





#### **Graduate View**

Shane O'Neill | Marketing Advisor - Middle East, Bord Bia

Growing up in Kilkenny I was fortunate to witness the rapid development of the agriculture and food sector. Working on my uncles farm during school holidays really sparked my interest in agriculture and influenced my decision to study Agricultural Science. Upon graduating from Agricultural Science in WIT I decided to transfer to UCD to study Food and Agribusiness Management. With a keen interest in Agricultural Economics, transferring was one of the best decisions that I have ever made. The friendships that I made have also proven to be an invaluable network that I can always rely on for insight and advice. Since graduating, I completed a graduate visa in New York where I worked with Ornua as a Sales and Marketing executive. I am currently studying a Masters in International Marketing with Bord Bia and the UCD Michael Smurfit Business School and am based in Dubai where I am working with a number of Irish companies on market development activities.

### Food Business with Chinese Studies

DN250

#### DN250 Food Business with Chinese Studies

Why Food Business with Chinese

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.

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.

Studies?

**STUDY ABROAD IN CHINA** 

**CAO Points** Average 2021 (Round 1): 504

**Guidelines for A-Level applicants based on 2021 entry requirements:** A\* AAe (Calculations do not include maths bonus)


\* 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** 

MSc Food Business Strategy

EXPORT

#### 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.

#### **Student View**

#### Luke Greene

I chose to study Food Business with Chinese Studies as I had a keen interest in the Chinese language, culture and business. China is a major opportunity market for Irish food

products, and I believe the skills acquired on this course will be highly desirable to future employers.

The Confucius Institute in UCD is a state-of-the-art institute for learning Chinese in Ireland. The class sizes are small and personal, and you get the opportunity to meet many different students from other faculties that are also studying Chinese.

The food business aspect of the course is delivered by the well-renowned UCD School of Agriculture and Food Science. It incorporates general Agricultural Science modules in first year with plenty of lab, practical work and several field trips to farms and processing plants. From second year, there is more of a focus on business modules while also getting the option to choose an elective module.

The third year of the course is the highlight in that you get to spend the entire year studying in Renmin University, Beijing. This is a great opportunity to immerse yourself in the language and experience the Chinese culture first-hand.



# 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 2022, students will apply via the DN250 CA0 Code.

#### CAO Points

Average 2021 (Round 1): 504

#### **Guidelines for A-Level applicants based on 2021 entry requirements:** A\* AAe (Calculations do not include maths bonus)

\*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

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**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 fieldbased lectures created a challenging and enjoyable learning environment.

COII

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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.



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

ucdagfood

### Student View

#### Orlaith Tobin

Studying forestry in UCD has enabled my love for the outdoors to branch out in new directions. While I come from an agricultural background, forestry was an area that I lacked experience in. However, the immense range of modules, field trips, and PWE has provided me with the basis of essential knowledge and skills needed for the ever-evolving industry. I was fortunate to complete a 14-week period of work experience with Coillte in the timber harvesting area, while also independently gaining additional management experience from the private sector.

I look forward to building a career with this knowledge and set of skills and am delighted to have secured a role as an Operations Forester with Veon for the Mid-west region directly after completing this course.

# Horticulture

### 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 plantbased 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 2022, students will apply via the DN250 CA0 Code.

#### Average 2021 (Round 1): 504

**Guidelines for A-Level applicants based on 2021 entry requirements:** A\* AAe (Calculations do not include maths bonus)

\*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**

#### **Eoin Farnan**

After visiting UCD during transition year I knew I wanted to study there. The vast range of facilities on campus including the free gym and numerous athletic fields were two



attractions for me. A love of sport and my part-time summer job with a landscaping company led me to the Horticulture programme. The variety of subjects studied appealed to me as I was unsure what I wanted to specialise in after my four years.

The highlight from my time at UCD was my PWE which I completed in third year. I spent seven months with a landscaping company and was able to apply the information I had learnt in my modules to the working world, something I thoroughly enjoyed. Following my PWE I knew what I wanted to do after college.

My final year research project allowed me to research the management of sportsturf facilities which overlapped with my passion for sport and highlighted the diversity of the course.

I would recommend this course to anyone with an interest in sport, horticulture, science, or landscaping as it allows you to explore all topics before you decide on what you would like to specialise in.



# Chartered Institute of Horticulture

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

## **Graduate View**

Mary Harty | Assistant Professor in Horticulture, UCD School of Agriculture and Food Science

After fifteen years working in IT, I decided to pursue a career change. I had always loved plants and gardening and enjoyed working outdoors so I decided to study horticulture as a mature student. I initially studied in the National Botanic Gardens, then transferred to the Level 8 degree at UCD. I didn't have a clear plan for my future but my time in UCD really opened my eyes to understanding the science behind horticulture and I was hooked. I made the decision to pursue an academic career. I completed an MSc Environmental Science at UCD and a PhD.

I have recently joined UCD as a Lecturer in Horticulture. I am very excited to join the team at a time when plant-based food is so critical to providing essential nutrients for a balanced diet and helping to reduce the environmental impact of food production.

# Food Science



# Why Food Science?

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** Average 2021 (Round 1): 543

**Guidelines for A-Level applicants based on 2021 entry requirements:** A\* A\* Ab (Calculations do not include maths bonus)

\*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**

#### **Eithne Murray**

My favourite subjects in school were Home Economics, Biology and Agricultural Science so Food Science was a natural progression for me. I was enticed by the broad range of



career opportunities within the ever-changing and expanding global food industry. What I enjoyed most about UCD is that no two days are ever the same and you will encounter endless opportunities, both course and non-course related, if you seek them out. This has provided me with many highlights across my four years including the opportunity to study abroad at the University of Queensland in Brisbane, completing PWE in third year, being able to keep up my Spanish as an elective, volunteering with UCDVO on a project in Uganda, social basketball and being a member of the windsurfing club committee. At UCD, hard work is undoubtedly recognised and rewarded and I was fortunate to receive both a GPA scholarship and a study abroad scholarship. Graduating as a food scientist, I am excited for what the future holds in the global effort towards sustainable food production as I embark on my next chapter as a Research and Development intern with Kerry Group in the United States.



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



#### **Graduate View**

**Brian O'Connell** | Regulatory Technologist - Kerry

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 PWE in third year, which I completed 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.

# **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 Average 2021 (Round 1): 580

**Guidelines for A-Level applicants based on 2021 entry requirements:** A\*A\*A\*a (Calculations do not include maths bonus)

\*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.

46





Growing up on a farm in Co. Limerick, competing as an athlete and the BSc Human Nutrition has solidified my passion for nutrition in terms of food, fuel and health. In third year I combined nutrition and sport completing a 10-month research based placement in the University of Limerick. I provided nutrition support to the Limerick U-20 hurling team, project managed a European funded study and presented results of my own intervention study at the All Ireland Conference of

Undergraduate Research and The Nutrition Society conferences. This placement was one of the highlights of the degree. The approachable lecturers, small class size and teaching methods make the BSc Human Nutrition and UCD a fantastic choice. There are many career paths open to graduates including research, industry, applied practice, public health or further study. I currently work in a research role and I also provide sports nutrition support to GAA teams. This course has afforded me these options and career opportunities. I highly recommend the course to anybody who wants to work in the field of Nutrition, Food and

## **Graduate View** Kenneth Coyle | Senior Formulation Scientist - Nutritional Products, Oriflame

I have always had a large interest in sport nutrition, weight management and wellbeing which led me to the Human Nutrition degree in UCD.

Following my degree, I worked as a

Technologist with Glanbia Performance Nutrition based in Middlesbrough where I quickly realised that I had an aptitude for product development. Fast forward a couple of years and I had successfully developed protein bars and powders for global companies such as Optimum Nutrition, Nutramino, BSN and Body & Fit. Currently, I work with Oriflame R&D as a Senior Formulation Scientist, where I mainly develop food and food supplements. My most recent achievement was successfully developing a vegan society approved meal replacement which will be sold in over ten global markets including Russia, Poland, Belarus, Peru, and Chile.

This role is heavily focused on bringing concepts to reality, it encompasses all facets of new product development including nutrition, sensory, regulatory, food safety and consumer testing. The food industry is a fast-paced environment and the knowledge gained from my undergraduate has provided me with a solid foundation which allows me to be adaptive in an ever-changing industry. The undergraduate degree in human nutrition can be a stepping stone to many places.



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

#### **Human Nutrition**

# **ALUMNI SPOTLIGHT**



Mairead McGuinness

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



**Dr. Frank O'Mara** Director, Teagasc



Dr. Aileen Connolly Senior Regulatory Affairs Manager, Danone



Darragh McCullough Broadcaster and Journalist



John Heslin Market Access and Marketing Manager, Allflex Ireland & GAA Player, Westmeath





**Evelyn Garland** Co-Founder, Simply Fit Food



**Dale Crammond** 

Agricultural Inspector – Climate Change, Department of Agriculture, Food and the Marine & Former Agriculture Counsellor, Embassy of Ireland, Washington D.C.



**Clare Fahey** Global Brand & Strategic Projects Manager, Alltech

# **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



#### **INFORMATION VIDEOS**

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

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



#### 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

# **FOLLOW US**

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#### UCD School of Agriculture and Food Science

Agriculture and Food Science Centre, University College Dublin, Belfield, Dublin 4 Tel: +353 (0) 1716 7194 Email: agandfoodprogrammes@ucd.ie Web: www.ucd.ie/agfood Chat: www.myucd.ie/chat f V 0 in 0 ucdagfood

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.