Agriculture with Animal Production Science

BSc Honours

UCAS code D422
3 Years

www.ncl.ac.uk/ug/D422

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This degree includes topics such as animal nutrition and growth, and livestock reproduction.

You study wide-ranging agriculture topics in your first two years, exploring plant biology, soil science, nutrition, management, accounting and law.

In your third year you specialise in animal production science and will visit a range of livestock businesses.

You have a choice of optional modules covering topics like:
- companion animals
- animal welfare and management
- livestock behaviour

You can boost your employability and professional skills with an optional placement year in industry or the commercial sector.

You also have the opportunity to organise and host a conference on animal health, developing and showcasing a range of skills employers value.

**Highlights of this degree**

**Quality and ranking**

Newcastle also ranks in the top 5 in the UK for Agriculture, Forestry and Food in The Guardian University Guide 2018. Agriculture at Newcastle also ranks in the top 150 universities in the world in the QS World University Rankings by Subject 2017.

**Flexible degree structure**
The first and second years are the same for students on all four of our agriculture degrees.

Our flexible degree structure means it is possible to transfer between any of our agriculture degrees up to the end of Stage 2 if you would like to.

See the Course Details section for more information about what you will study at each stage.

**Stage 1**
This stage covers scientific and quantitative aspects of the subject such as plant biology, animal science, and economics. You'll undertake laboratory work and IT applications for applying statistical techniques to agricultural data.

**Stage 2**
You apply the principles established in Stage 1 to animal and crop production and farm management. You also take a crop pests field course, focusing on the major insect, fungal and weed pests that affect crop production, engaging with leading industry experts in the field.

**Stage 3**
Students on our Agriculture BSc degree continue to follow a broad curriculum. Students on our other degrees follow a more specialist route in Agronomy, Animal Production Science or Farm Business Management.

**Boost your employability with a work placement**
Apply to spend 9 to 12 months on an optional work placement between Stages 2 and 3. You can apply to spend your placement year with any organisation and will receive University support to do so.

You'll gain first-hand experience of working in the sector, putting your learning into practice and developing your professional expertise.

It will extend your degree by a year and is subject to availability.

Find out more about Work Placements.

**Industry links**
The University is highly regarded within the industry and has been a leader in agricultural education since 1891.

We have strong links with the local farming community, which provide experience of a wide range of farming practices including:
- arable
- dairy
- beef
- sheep
- pig
- field-scale vegetable enterprises

In addition, you will have regular visits to the University's commercial farms.

We also provide hands-on experience through a second-year project managing your own crops, and vacation opportunities that include lambing and harvest jobs.

**Facilities and support**
This degree is run by the School of Natural and Environmental Sciences located at the heart of campus in the Agriculture Building.

**Facilities**
Our facilities include:
The Farms, a mixed farm facility in Northumberland, a short distance from Newcastle.

NU-Farms Research, comprising two main farm units in the Tyne Valley.

well-equipped modern laboratories, for teaching and research.

nu-food, our food and consumer research facility.

computing facilities, including computers running industry-specific software relevant to careers in agriculture.

Our two University farms are used for research, teaching and demonstration.

Support

You will have an academic member of staff as a personal tutor throughout your degree. They can help with academic and personal issues.

Peer mentors will help you in your first year. They are fellow students who can help you settle in and answer any questions you have.

There's also a staff-student committee, to give you an opportunity to have a say in how your degree works.

Social activities

A student-led Agric Society organises regular social events, and it’s a friendly cohort of students.

Students working in the Robinson Library.

Course Details

Modules for 2017 entry

Please note

The module and/or programme information below is for 2017 entry. Modules may be amended on an annual basis to take account of changing staff expertise, developments in the discipline, the requirements of external bodies and partners, and student feedback. Modules/programme information for 2018 entry will be published here as soon as it is available (end of May 2018).

Our degrees are divided into Stages. Each Stage lasts for an academic year and you need to complete modules totalling 120 credits by the end of each Stage.

Stage 1

Compulsory modules

ACE1006 Introductory Business Economics
ACE1008 Environment and Land Resources
ACE1013 Introduction to Genetics
ACE1022 Crop Pests
ACE1033 Introduction to Business Management
ACE1040 Academic and Professional Skills
ACE1041 Investigating Agri-food Systems From Farm to Folk
ACE1042 Animal Health
ACE1044 Introduction to Animal Physiology
ACE1046 Plants, Environment, Agriculture

Stage 2

Compulsory modules

ACE2006 Agricultural Economics
ACE2010 Agricultural Markets
ACE2018 Arable Crops
ACE2019 Grassland
ACE2020 Introduction to Farm Management
ACE2024 Principles of Agronomy and Crop Improvement
ACE2028 Animal Feed Science and Technology
ACE2063 Managing Soils in Agricultural Systems
ACE2064 Sustainable Livestock Systems
ACE2066 Academic and Professional Skills 2
ACE2068 Domestic Animal Reproduction and Genetic Improvement
Stage 2
The first two years are the same for all of our agriculture degrees so you have the flexibility to change between them up to the end of Stage 2 should you find your interests change.
If you wish to take ACE3037 Crop Pests Field Course at Stage 3, please note that this module will take place at the end of the Semester 2 assessment period of Stage 2.

Work Placement (optional)
You can apply to spend 9 to 12 months on an optional work placement between Stages 2 and 3. You can apply to spend your placement year with any organisation and will receive University support to do so. It will extend your degree by a year and is subject to availability. Find out more on about Work Placements.
If you choose to take this option, you will take the following module:
NCL3000 Careers Service Placement Year Module

Stage 3
Compulsory modules
ACE3022 Animal Welfare and Environment
ACE3040 Animal Product Quality and Marketing
ACE3043 Livestock Reproduction
ACE3088 Forage Utilization
ACE3098 Agriculture Dissertation
ACE3204 Applied Animal Nutrition

Optional Modules
You take 50 credits from the following list:
ACE2035 Companion Animals
ACE3023 Combinable Crops
ACE3034 Applied Crop Protection
ACE3035 Sustainable Land Use and Management
ACE3036 Farm Management
ACE3048 Livestock Behaviour
ACE3085 Non-Combinable Crops
ACE3089 Animal Science Conference - Current Issues and Debates
ACE3206 Land-Based Enterprise Development
LAW2053 Law and Land Use

Teaching methods
Lectures and laboratory practicals will teach you the scientific principles that underpin agriculture.
Visits to the University farms and other local farming businesses will help you to understand the practical application of the theory you learn.
You’ll also complete project work and reports, working as an individual and in groups.

Assessment methods
Assessment is by formal examination at the end of each semester and by continuous assessment based on projects and essays. The continuous assessment can account for half of your total marks, particularly in the final year.

Find out more
Visit our Teaching & Learning pages to read about the outstanding learning experience available to all students at Newcastle University.

Entry Requirements
All candidates are considered on an individual basis.
If your qualifications are not listed here, please see our additional entry requirements web pages to find out which other qualifications are considered.
The entrance requirements below apply to 2018 entry.

A Levels
ABB-BBB excluding General Studies. A science A Level is preferred. For Biology, Chemistry and Physics A levels, we require a pass in the practical element. GCSE Biology and Chemistry (or Dual Award Science) at grade C or 4 required if not offered at A or AS level.

Scottish Qualifications
AABBB-AABB at Higher Grade, including Biology and/or Chemistry. Combinations of Highers and Advanced Highers accepted.
Scottish qualifications can be taken in more than one sitting.

International Baccalaureate
30-32 points with Chemistry and/or Biology at Higher Level. Chemistry and/or Biology should be offered at Standard Level if not offered at Higher Level.

Irish Leaving Certificate
H2H3H3H3-H2H3H3H3H3 at Higher Level, including Biology and/or Chemistry.

Access Qualifications
45 level 3 credits including chemistry and biological sciences, with at least 30 level 3 credits at Merit. Business Studies is desirable.
Pearson BTEC Level 3 National Extended Diploma/OCR Cambridge Technical Level 3 Extended Diploma
In Agriculture or Applied Science at overall D’DD-DDD.

Cambridge Pre-U
D3, M2, M2 - M2, M2, M2 in Principal Subjects. GCSE Biology and Chemistry (or Dual Award Science) at grade C or 4 required if not offered at a higher level.

Extended Project Qualification
We welcome applications from students offering an Extended Project and value the skills of research and independent learning that it is designed to develop. If you offer an Extended Project, it will be taken into account as part of your application profile, but we will not usually include it in offer conditions for this degree programme.

PARTNERS - A Levels
BCC excluding General Studies. GCSE Biology and Chemistry (or Dual Award Science) required if not offered at A or AS level.

The PARTNERS Programme is Newcastle University’s supported entry route for students from schools and colleges in England and Northern Ireland. Find out more about the PARTNERS Programme.

PARTNERS - Pearson BTEC Level 3 National Extended Diploma/OCR Cambridge Technical Level 3 Extended Diploma
In Agriculture or Applied Science at overall MMP.

The PARTNERS Programme is Newcastle University’s supported entry route for students from schools and colleges in England and Northern Ireland. Find out more about the PARTNERS Programme.

Additional Information
Evidence of relevant experience of agriculture is useful.

English Language Requirements
Applicants whose first language is not English require a minimum score of IELTS 6.5 or equivalent.

If you need help to meet our English Language requirements, we can provide support with extra tuition.

Read more about UK visas and immigration requirements.

Other International Qualifications
ABB at A level is typically the minimum required for entry to an undergraduate course. You can check the equivalent grades for qualifications offered in your country.

International Foundation Programmes
If you are an international student and you do not meet the academic and English language requirements specified above, you should consider a pre-sessional course at INTO Newcastle University, which will help to prepare you for study on this degree course.

INTO Newcastle University is based on the University campus and offers a range of courses including the International Foundation in Biological and Biomedical Sciences.

Undergraduate Admissions Policy
See our Admissions Policy 2017 Entry (PDF: 109 KB).

See further policies related to admission.

Careers

Animal Production Science careers
Newcastle agriculture graduates are highly regarded in the world of agriculture and related industries, and as a result have a wide choice of careers open to them.

Whilst many graduates are employed in farm management or go on to manage their own farms, others use the breadth of skills and experience that they develop during their degree to follow a range of opportunities in the service and supply industries. These include research or advisory and consultancy work with public and private organisations.

Graduates also find employment in commercial companies supplying fresh and processed produce, seeds, fertilisers, agrochemicals, animal feedstuffs, veterinary products and equipment.

Building on their background in economics, business studies, and farm and estate management, some of our students enter careers in finance, where they are particularly well equipped to work as agricultural specialists. We are confident that Newcastle agriculture graduates have the breadth of knowledge and skills needed to succeed in whatever they choose to do.

Some of our recent graduates have gone on to a variety of positions such as: agronomist, Agrovista UK Ltd; farm management consultant, Brown and Co; reserves officer, Durham Wildlife Trust; Director of Rural Research, Bidwells Property Consultants; higher executive officer, DEFRA; farm manager, Co-operative Farms; and animal nutritionist, Harbro Ltd.

Find out more about the career options for Agriculture from Prospects: The UK’s Official Careers Website.
What our graduates go on to do: employment and further study choices

See what our recent graduates went on to do and view graduate destinations statistics. These statistics are based on what graduates were doing on a specific date, approximately six months after graduation. The most recent data available is for graduates who completed their course in 2014/15.

The destination data is available in varying levels, beginning with the University and moving through Faculty and School down to individual course reports. This final level may give you some useful ideas about possible options after your course or a course you are considering.

Careers and employability at Newcastle

Newcastle University consistently has one of the best records for graduate employment in the UK.

94% of our 2014/15 UK/EU graduates progressed to employment or further study within six months of graduating.

Of our graduates who entered employment 85% were in a professional or managerial position.

We provide an extensive range of opportunities to all students through an initiative called ncl+. This enables you to develop personal, employability and enterprise skills and to give you the edge in the employment market after you graduate.

Our award-winning Careers Service is one of the largest and best in the country, and we have strong links with employers.

Fees & Funding

Tuition Fees (UK students)

2018 entry*:
£9,250
For programmes where you can spend a year on a work placement or studying abroad, you will receive a significant fee reduction for that year.
Some of our degrees involve additional costs which are not covered by your tuition fees.
*Please note:
The maximum fee that we are permitted to charge for UK students is set by the UK government.

Tuition Fees (EU students)

2018 entry*:
£9,250 in 2018-19
EU students starting at Newcastle in 2018 will pay the UK (Home) tuition fee for the full duration of their course.
For programmes where you can spend a year on a work placement or studying abroad, you will receive a significant fee reduction for that year.
Some of our degrees involve additional costs which are not covered by your tuition fees.
*Please note:
The maximum fee that we are permitted to charge for UK (Home) students commencing studies in 2018-19 is set by the UK government.
As a general principle, you should expect the tuition fee to increase in each subsequent academic year of your course, subject to government regulations on fee increases and in line with inflation.
See more information on all aspects of student finance relating to Newcastle University.

Tuition Fees (International students)

2018 entry:
£21,000 per year
You will be charged tuition fees for each year of your degree programme (unless you are on a shorter exchange programme).
If you spend a year on placement or studying abroad as part of your degree you may pay a reduced fee for that year.
Please note that the tuition fee amount you will pay may increase slightly year on year as a result of inflation.
See more information on all aspects of student finance relating to Newcastle University.

Scholarships and Financial Support (UK students)

You may be eligible for one of a range of Newcastle University Scholarships in addition to government financial support.

Newcastle University Scholarships
Government financial support
There are also scholarships available for particular subjects.
Scholarships and Financial Support (EU students)

You may be eligible for one of a range of Newcastle University Scholarships in addition to government financial support.

Newcastle University Scholarships
Government financial support
There are also scholarships available for particular subjects.

Scholarships and Financial Support (International students)

You may be eligible for an International Family Discount (IFD).
There are also scholarships available for particular subjects.

Apply

Applying to Newcastle University through UCAS

To apply for undergraduate study at Newcastle you must use the online application system managed by the Universities and Colleges Admissions Service (UCAS).

UCAS codes for Newcastle University
- institution name - NEWC
- institution code - N21

UCAS buzzword

Ask your teacher or adviser from your school or college for the UCAS buzzword. You need the buzzword when you register on the Apply system. This makes it clear which school or college you are applying from.

All UK schools and colleges and a small number of EU and international establishments are registered with UCAS.

If you are applying independently, or are applying from a school or college which is not registered to manage applications, you will still use the Apply system. You will not need a buzzword.

Making your application

On the UCAS website you can also find out more about:
- application deadlines and other important dates
- offers and tracking your application

Application decisions and enquiries

Find out more about our admissions process and who to contact if you need help with your application.