Agriculture with Animal Production Science
BSc Honours
UCAS code D422
3 Years

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

- 4th in the UK – The Complete University Guide 2020 (Agriculture and Forestry category)
- 8th in the UK – The Guardian University Guide 2020 (Agriculture, Forestry and Food category)
- Joint 3rd in the UK – The Times/Sunday Times Good University Guide 2019 (Agriculture and Forestry category)
- 92nd – Life Sciences category – Times Higher Education World University Rankings by Subject 2018
- top 150 – Agriculture and Forestry category – QS World University Rankings by Subject 2019

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 will 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 will 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.

Study abroad

You may choose to study abroad for a year between Stages 2 and 3 of your degree. Alternatively you can study at an international university for one or two semesters.

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.

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
To support you in your studies, all new students entering year 1 or year 2 will receive a tablet. This enables you to download the online learning resources you’ll need for your course and helps us to make our campus more sustainable.

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.

Course Details

Modules for 2019 entry

Please note
The module and/or programme information below is for 2019 entry. Our teaching is informed by research and modules change periodically to reflect developments in the discipline, the requirements of external bodies and partners, student feedback, or insufficient numbers of students interested (in an optional module). To find out more read our terms and conditions.

Module/programme information for 2020 entry will be published here as soon as it is available (end of May 2020).

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. Further information, including the credit value of the module, is available in each of the module descriptions below.

Stage 1

Compulsory modules
ACE1006 Introductory Business Economics
ACE1008 Environment and Land Resources
ACE1055 Introduction to Agricultural Mechanisation
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
ACE2020 Introduction to Farm Management
ACE2024 Principles of Agronomy and Crop Improvement
ACE2028 Animal Feed Science and Technology
ACE2063 Managing Soils in Agricultural Systems
ACE2076 Sustainable Animal Production Systems
ACE2066 Academic and Professional Skills 2
Stage 2

ACE2068  Domestic Animal Reproduction and Genetic Improvement

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 40 credits from the following list:
ACE2035  Companion Animal Science
ACE3023  Combinable Crops
ACE3034  Applied Crop Protection
ACE3036  Farm Management
ACE3048  Livestock Behaviour
ACE3085  Non-Combinable Crops
ACE3089  Animal Science Conference - Current Issues and Debates
LAW2053 Law and Land Use

With the approval of the Degree Programme Director alternative optional modules to those listed above may be selected.

Teaching and assessment

Study at the cutting edge
Teaching is research-informed, so you’ll learn from staff engaged in real-world research on the University’s farms and learn at the cutting edge of the discipline. You can also engage in research of your own through a research-led final-year dissertation.

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.

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. Take a look at the most recent data available for our graduates.

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.

96% of our 2017 UK-domiciled UG/PG graduates progressed to employment or further study within six months of graduating.

85.5% of our graduates are in graduate level employment or further study within six months of graduating.

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)
See more information on all aspects of student finance relating to Newcastle University.

Tuition Fees (EU students)

<table>
<thead>
<tr>
<th>Entry Year</th>
<th>Fee</th>
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<tbody>
<tr>
<td>2019/20</td>
<td>£9,250</td>
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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.

Please note:
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)

<table>
<thead>
<tr>
<th>Year</th>
<th>Fee</th>
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<tbody>
<tr>
<td>2020</td>
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</tr>
<tr>
<td>2019</td>
<td>£22,110</td>
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*Please note:
You will be charged tuition fees for each year of your degree programme (unless you are on a shorter exchange programme).

The tuition fee amount you will pay may increase slightly year on year as a result of inflation.

If you spend a year on placement or studying abroad as part of your degree you may pay a reduced fee for that year.

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
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

Scholarships and Financial Support (International students)

We offer a range of scholarships to eligible international students:

- Vice-Chancellor’s International Scholarships
- Vice-Chancellor’s Excellence Scholarships
- Vice-Chancellor’s Global Scholarships

We also offer International Family Discounts which are available for all international students with a close family member who has graduated from or is now studying at Newcastle University.

Some of our subject scholarships and sports scholarships are also available for international students.

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

Take a virtual tour at www.ncl.ac.uk/tour