SCHOOL OF NATURAL AND ENVIRONMENTAL SCIENCE

BSc (Hons) Agriculture (D400)

BSc Agriculture with Honours in Agronomy (D444)

BSc Agriculture with Honours in Animal Production Science (D422)

BSc Agriculture with Honours in Farm Business Management (D402)

Supplement to the Undergraduate handbook

Degree Programme Information ACADEMIC YEAR 2019-2020
BSc. AGRICULTURE PROGRAMME FEATURES

Welcome

Congratulations on joining the Agriculture programme at Newcastle University, you are following in the steps of many successful alumni who are now leading and changing agriculture and its associated sectors Nationally and Internationally. We are confident that you are the next generation of reputable alumni that will continue the Newcastle tradition of questioning current practice, devising innovative solutions to the challenges of feeding an ever increasing population and affirming the reputation of Newcastle University as a proving ground for excellence in the sector.

As the programme director with a teaching and scholarship function, my primary concern is with your progress and achievement. I am however just a small part of an effective team, who are all committed to making your time at Newcastle engaging and challenging. We will collectively take you out of your comfort zone, we will query your assumptions and expect you to adopt an open mind. We will encourage and expect you to consider innovative, demanding and stimulating concepts; all of which will have a sound basis in demonstrable science and business principles.

Your role is to demonstrate continued improvement, learn from what you have already done, apply new knowledge, synthesise new ideas and to demonstrate your understanding through application.

My target is that in the next iteration of this introduction, you will be the successful alumni that I am referring to when illustrating the continued impact of Graduates from Newcastle on the Agriculture sector in the UK and internationally.

Summary of the Degree programme

This is a three-year full-time modular programme consisting of 120 credits per year for three years, with 10 credits being equivalent to 100 hours of study time (contact time and private study). Modules vary in valency from 10 to 20 credits.

Agriculture is a science based subject, which builds upon core disciplines such as soil science, botany, animal biology, genetics, and upon social sciences such as economics, management and marketing. This broad basis of disciplines is developed and further specialised as the degree progresses.

Field classes and degree-specific modules at every stage emphasise the integrated nature of the agriculture programme requiring interdisciplinary study. They also link into a varied range of employment opportunities upon graduation.

Your University programme is primarily intended to educate you in a particular discipline, but it will also provide training in transferable skills and personal development. The University maps these skills according to the Graduate Skills Framework (http://www.ncl.ac.uk/quilt/assets/documents/str-gsf-framework.pdf).

Each of your modules will be clearly linked to a series of graduate skills, some of which will be present in the learning and teaching activities and some of which will be assessed. You will be able to identify which skills are present in each module by looking at the module catalogue entry (http://www.ncl.ac.uk/module-catalogue/modules.php). Identifying the skills present in each module that you take will help you to recognise key skills that you can mention in interviews and on your CV.
<table>
<thead>
<tr>
<th><strong>Average number of contact hours for this stage / programme:</strong></th>
<th>In stage 1 you will undertake approximately 16 hours per week of contact time.</th>
</tr>
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<tbody>
<tr>
<td><strong>Mode of delivery:</strong></td>
<td>Delivery modes on the agriculture programme include lectures, seminars, field work, laboratories, practical exercises, distance learning.</td>
</tr>
<tr>
<td><strong>Normal notice period for changes to the timetable, including rescheduled classes:</strong></td>
<td>Wherever possible, changes to the programme will be notified at least 1 week in advance, on occasion it may be necessary to make amendments at short notice; wherever possible these will not involve change to time or location, it may be that adjustment is needed due to weather conditions or at the request of a visit host.</td>
</tr>
<tr>
<td><strong>Normal notice period for changes to the curriculum or assessment:</strong></td>
<td>Changes to assessment or curriculum will be notified at least 1 semester in advance and will (in the case of selected modules) be subject to agreement in advance.</td>
</tr>
<tr>
<td><strong>Normal deadline for feedback on submitted work (coursework):</strong></td>
<td>The school operate a target turnaround of 20 working days from submission date to offer feedback on assessed submissions.</td>
</tr>
<tr>
<td><strong>Normal deadline for feedback on examinations:</strong></td>
<td>The normal deadline for feedback on examinations is immediately following the board of examiners appropriate to the examination period. Where a candidate has exceptional circumstances for completion of examinations, the feedback may be adjusted accordingly.</td>
</tr>
<tr>
<td><strong>Professional Accreditation:</strong></td>
<td>There are currently no professional accreditations associated with the programme, additional qualifications will be advised.</td>
</tr>
<tr>
<td><strong>Assessment methods and criteria:</strong></td>
<td>Assessment methods and weighting are identified in the Module Outline Form available on the University web site. Assessment methods will include coursework, examinations, field work, practical, oral and case study exercises.</td>
</tr>
<tr>
<td><strong>Academic guidance and support:</strong></td>
<td>Academic guidance and support is available to all candidates via the tutorial system, though seminar sessions with module tutors and through the University’s support mechanisms.</td>
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</tbody>
</table>
Aims and Outcomes of the Degree

The full aims and learning outcomes of the B.Sc. Agriculture degree programme are given in the degree programme specifications which are available on the School website http://www.ncl.ac.uk/undergraduate/degrees/d400/#courseoverview

Aims

The Honours Degree in Agriculture is designed to achieve the following aims and objectives.

a) To develop knowledge and understanding of the principles of agriculture in terms of science and practice.

b) To lay a broad foundation in animal and plant biology.

c) To lay a broad foundation in aspects of economics and management of farming and agricultural systems.

d) To stimulate an informed interest in the development and progress of agriculture and its relevance to human needs.

e) To build upon and consolidate the knowledge of science, management, economics, biometrics and computer skills as a basis for possible more advanced studies in appropriate fields of agriculture.

f) To develop the ability to use, appreciate, search through and evaluate scientific literature and to promote an awareness of the sources of information in the field (libraries, data bases, etc.) and their most effective use.

g) To develop the ability to communicate information and ideas through clear and concise written, graphical and verbal accounts.

h) To develop the ability to undertake a research project or review of literature and to write it up in a concise format. To understand how to collect and analyse data and interpret these results.

i) To develop the ability to work both individually and in a team as a means of developing learning skills.

j) To encourage the greatest possible degree of intellectual and technical development in terms of the degree classification achieved with the highest possible levels of professional competence and integrity.
**Intended Learning Outcomes**

Students graduating with an Honours degree in Agriculture should possess a broad scientific training and a knowledge of the fundamentals of a broad range of aspects of agriculture. They should also have an understanding of the specialised area relating to their final year option choice.

Graduates should have the intellectual and technical competence to undertake scientific investigations and be able to gather and present agricultural information. They should have acquired a number of transferable skills.

Graduates of Agriculture should be equipped to take up careers in a wide variety of fields. These could include scientific research, teaching, farm management, technical journalism, conservation and environmental organisations, commerce, advisory work and industry in general. Skills in numeracy, computing and communications should equip a graduate with an excellent basis for further training in a variety of professional fields including accountancy and banking.

Graduates with first or upper second class Honours degrees should have the ability to embark upon postgraduate studies through either research or taught courses.

You have the opportunity to undertake a year’s placement, if you wish to do this you will have to change onto the appropriate degree code listed below in Stage 2. More information regarding University placements and your responsibilities can be found here: [http://www.ncl.ac.uk/undergraduate/careers/skills/#workplacements](http://www.ncl.ac.uk/undergraduate/careers/skills/#workplacements)
OBJECTIVES

Stage 1

- To develop in students an understanding of the biological, chemical and social sciences which form the basis of the very broad subject which is Agriculture.
- To bring students with a diverse range of A Level and other pre-University qualifications to a level of competence in these subjects, such that they are able to benefit from Stages 2 and 3 of the Honours Degree programme.
- To develop the ability to communicate both verbally and in writing, and to understand the role that information technology can play in the acquisition and presentation of information.

Stage 2

The objective of Stage 2 is to build upon the base of biological, chemical, economic and mathematical principles established in Stage 1, to develop in students an understanding of the UK agricultural industry and the factors which influence the efficiency of its various components. Students will be taught the principles and practices of crop production, animal production and farm business management, and their interrelationships with the physical and economic environments. Basic numeracy skills and familiarity with computing and its various applications will be maintained and developed.

We expect that, at the end of Stage 2, students will have a good, general understanding of all aspects of UK agriculture, and will have been sufficiently stimulated in one of the main subject areas to specialise in that area for their Honours year (Stage 3).

Stage 2 has a key transitional role in the Degree Programme, cementing scientific understanding with practical illustration, and promoting development of transferable skills such as teamwork and oral presentation that are relied upon heavily at Stage 3.

Stage 3

The objectives are to encourage students to make a detailed study within a particular Honours Option. Specifically, students will be encouraged to locate, evaluate, organise and present scientific evidence gathered from a range of different sources. The ability to work both alone and in teams will be developed, as will the ability to communicate both verbally and in writing.

All students at the end of this Stage should have a level of technical competence and personal development which enables them to make an effective contribution to the agricultural industry in its widest sense.

At the end of their degree, honours students who wish to do so should be capable of conducting independent research and of going to a higher degree.
COURSE STRUCTURE

Agriculture is a science based subject, which builds upon core disciplines such as biochemistry, botany, biometrics, animal biology, and genetics, and upon social sciences such as economics and marketing. This broad basis of disciplines is then developed and further specialised as the degree progresses.

Anyone who has initially chosen a specific option may, within limits, change at the start of Stage 3.

Stage 1

In Stage 1 of the Honours Degree programme in Agriculture, there is no choice about which modules you will study. Irrespective of the Honours Option which you may intend to study at Stage 3, all students are required to study the same 10 modules (120 credits) at Stage 1. These Modules are listed below and more detail about the content of each of the modules is provided in the Module Outlines, which can be accessed from the School web page.

Students must complete, and satisfy the examiners in all modules at Stage 1 before they can progress to Stage 2.

Stage 2

As with stage 1, there is also no choice about which modules you will study, and all students will study the same modules (120 credits) at Stage 2. The titles of these modules are listed below and further detail about the content of each of the modules can be obtained from the School web page.

In keeping with the objectives of Stage 2, the modules combine scientific principles with a practical understanding to cover the full breadth of UK agriculture, from Animal Feed Science and Technology (ACE2028) to Arable Crops (ACE2018), Agricultural Economics (ACE2006) to Academic and Professional Skills (ACE2066).

Honours students must complete and satisfy the examiners in all modules at Stage 2 before they can progress to Stage 3.

Stage 3

In Stage 3 you are required to specialise in one of four options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Code</th>
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<tbody>
<tr>
<td>Agronomy</td>
<td>D444</td>
</tr>
<tr>
<td>Animal Production Science</td>
<td>D422</td>
</tr>
<tr>
<td>Farm Business Management</td>
<td>D402</td>
</tr>
<tr>
<td>Agriculture</td>
<td>D400</td>
</tr>
</tbody>
</table>

This is to enable you to focus your attention on a narrower range of subjects and to develop your capacity to study in depth. In Stage 3 you can choose any one of the four honours options. The title of your degree depends on the Honours option which you have studied (e.g. BSc in Agriculture with Honours in Agronomy).

In the Honours options 80 credits are obtained from compulsory modules (in Animal Production Science this is only 70 credits) which includes a dissertation with a valency of 30 credits. The remaining 30 credits (40 in APS) are normally made up from the optional modules listed in the regulations, and occasionally from other modules available in School and/or Faculty. These lists
have been constructed to enable you to specialise to varying degrees in the subject area of your choice. For example, a student who opts for Animal Production Science will be obliged to study 70 credits in that subject area while the remaining 50 credits could be obtained from farm management and crop production, enabling the student to retain a reasonably broad profile. Alternatively, the remaining 50 credits could be obtained from animal science subjects, thus enabling the student to become very specialised.

Similar choices are available for students in each of the major Honours options.

The choice of major option and of additional modules should be discussed with your tutor. You may also wish to consult individual module leaders. If you are to make the most of the final year, it is important that you are enthusiastic about your subjects, as they will all involve a considerable amount of private study time.

TEACHING METHODS

Most modules are taught principally by lectures, some will also involve practical work, tutorials and farm visits.

In Stage 1 you will often find that students on the Agriculture Degree Programme are taught together with students from other related degree programmes (especially Animal Science) and the group size can therefore be large. Please do not hesitate to contact the module leader if you need help or advice about additional reading.

There are laboratory practical classes in some modules. Please follow instructions carefully in the interest of safety, and make sure that you understand when you are required to write up practical work as part of the assessment for the course. *Failure to do so may impede your progress.*

Some courses also provide tutorials to augment the lectures. Assignments may be set and discussed in these sessions, and again these may contribute to the final mark for a module. Tutorials provide an opportunity for you to seek clarification of some points, which you may not have understood, from the lectures. The more you contribute to them, the more you are likely to benefit.

A series of visits to the University Farms and other farms/businesses in the region are carried out where you may be looking at general aspects of farm management or there may be a very specific objective linked to one of the modules e.g. Mammalian Physiology.

Teaching in Stage 3 is usually very different from that in earlier Stages with much less emphasis on formal lectures, and a greater emphasis on seminars, tutorials and projects in which informal discussions between staff and students play a vital role. You will be expected to read and research certain topics prior to seminars and tutorials, and will be expected to contribute to discussions during them. *Your contributions (both formal and informal) on these occasions may be assessed.* You will be informed in advance if this is to be the case.

The dissertation, which has a valency of 30 credits is an opportunity to study a subject of your own choice in depth and to develop your report writing skills. As part of the dissertation, you will be required to make two presentations of your work which will be held in the middle of the first semester and towards the end of the second semester. As well as the formal presentation, you will be required to answer any questions raised by staff or fellow students. Your performance will be assessed, and the mark awarded will contribute 5% of the final mark for the dissertation for the first presentation, and 10% for the second.
Individual modules may also involve visits to farms and other agricultural businesses, linked to projects or other written exercises and/or contributions from visiting speakers.

**ASSESSMENT**

Modules are marked according to the convention:

- First Class: >70%
- Upper second class: 60-69
- Lower second class: 50-59
- Third class: 40-49
- Fail Honours: <40

All modules will be examined by the end of the semester in which they are taught. Most will involve a formal examination and an assessment of coursework. The exact breakdown of marks for each component is either listed in the module outline or will be fully explained at the start of the module. **Please ensure that you understand the assessment method for each module.**

Formal examinations for modules with a valency of 10 credits will normally be a two hour examination, those with a valency of 20 credits will normally be three-hour examinations (examined at the end of the second semester). All modules will be examined by the end of the semester in which they are taught.

In-course assessments may take the form of essays, projects, numerical exercises, practical exercises or oral examinations.

You are reminded of the School’s examination conventions with respect to the submission of continuous assessment work. The school has a set policy for late submissions, so you should be careful to submit all assessments well in advance of the deadline. If work is submitted within 7 calendar days of the deadline, it will be capped at the pass mark (40 for undergraduate programmes). If you submit a piece of work more than 7 days after the deadline, it will receive a mark of zero.

You are also required to retain and, if asked, to make available to the examiners, any or all of the continuously assessed work which contributes to your degree and which has been returned to you after marking. You should therefore be able to produce, if required to do so, work from both Stage 2 and Stage 3.

In addition to the normal internal marking, Honours examinations (Stage 2 and 3 Modules) will be subject to scrutiny by an external examiner from another University. This also applies to the dissertation.
CONTRIBUTION TO FINAL DEGREE CLASSIFICATION

Stage 1

There is no formal carry-over of marks from Stage 1 to later Stages of the Degree Programme. However, it is important to remember that you cannot progress to Stage 2 until you have satisfied the examiners in all 12 Stage 1 modules (i.e. you have achieved a mark of 40% or more in each module).

Knowledge that you gain from study of Stage 1 modules forms the basis of your future studies in Stage 2 and Stage 3. Therefore, it is beneficial for you to aim to do as well as you can – not just to achieve the minimum pass mark of 40%. Generally, students that perform well in Stage 1 examinations do better in the remainder of their degree programme than students who only achieve a borderline pass at the end of Stage 1. Those at the borderline generally tend to fail more examinations and, as a consequence have more resits.

Stage 2

In Stage 2 the normal rule applies, that students must satisfy the examiners in all 120 credits at Stage 2 before they can progress to Stage 3. Also, in this Degree Programme the marks awarded for assessments in Stage 2 contribute to your final degree classification. The weighted mean of your Stage 2 results will contribute 25% of the marks determining your final grade.

Stage 3

The 120 Stage 3 credits contribute 75% to your overall average mark, the remaining 25% having been decided at Stage 2. Your final degree classification is therefore based partly on your performance at Stage 2, but mostly on your performance at Stage 3.

Your final grade is decided on the basis of the Stage 2 and Stage 3 average. A full description can be found in the University Regulations, Undergraduate Examination Conventions.

Information about the dissertation, the rules relating to it and some hints for your guidance are presented as a separate handbook.

Details of your programme specification and regulations are available on the on the University website at: http://www.ncl.ac.uk/regulations/programme/2019-2020/sciences.php. The listing of modules is also provided towards the end of this supplement. In addition you can find more detailed information on individual modules through the module catalogue: http://www.ncl.ac.uk/module-catalogue/
Honours Options

On the following pages, information is provided about the objectives and structure of each of the 4 honours options.

D444 AGRONOMY

Course Co-ordinator
Dr P E Bilsborrow
Room 4.06, Agriculture Building
Tel: 0191 208 6868
E-mail: paul.bilsborrow@ncl.ac.uk

Course Objectives

1) Provide students with a series of core courses in the technology of crop production in temperate climates.

2) Develop an understanding of the physiological factors influencing crop yield and quality.

3) Explain the relationship between current agronomic practices and the scientific understanding of crop growth and development.

4) Explain the role of field experimentation in developing a sound understanding of crop responses to management inputs and climatic variables.

5) Provide an opportunity for students to develop their communication skills in preparing reports and oral presentations.

Methods of Teaching

Stage 3 students will participate in a wider range of learning situations than hitherto. The following teaching methods will play a prominent role during the academic year.

i) Lectures
Lectures remain an important component of the Stage 3 teaching programme. They are the most effective way of developing new concepts and presenting factual information within a short time. With the smaller Stage 3 group sizes, a far greater degree of dialogue is achieved between lecturer and students. Students are always encouraged to question and discuss information presented in lectures.

ii) Seminars
Seminars may be presented by members of staff, visiting speakers, or more commonly, by students to the option group. They are best described as a small group discussion where the presenter leads the discussion on a selected topic. They should not be regarded as a lecture from a fellow student. The success of a seminar is normally measured by the extent to which all students participate in discussion.
iii) **Group Tutorials**
As with the seminar, this is a small group discussion session in which all students make a contribution. Topics tend to be very focused and the presentations are generally shorter. Again much emphasis is placed on all group members contributing to the discussion.

iv) **Outside Visits**
A small number of visits to relevant farm and ancillary industries concerned with crop production will be organised during the academic year. Visits to the University Farms will focus on a series of crop walking exercises where students evaluate crop growth/protection characteristics and prepare agronomy reports.

v) **Projects**
A number of projects will be undertaken in selected modules (e.g. weed collection, disease assessment) and will contribute towards their continuous assessment programmes.

**D422 ANIMAL PRODUCTION SCIENCE**

**Course Co-ordinator - To Be Confirmed**

**Course Aims and Objectives**

During the first two stages of the degree programme students will have received a balance of modules covering animal science, crop science and management. This honours option gives students the opportunity to consider, in more critical detail, aspects of animal production science.

1) Core modules develop student knowledge and understanding of the key areas of animal breeding and growth, farm animal nutrition and forage utilisation.

2) A range of optional modules enables students to specialise and obtain expertise in related areas e.g. product quality, product marketing or tropical agriculture.

3) Both core and optional modules take an integrative approach. They do not look to repeat information detailed on a species basis in Stage 2 but to encourage students to compare and contrast the different livestock enterprises and to integrate scientific knowledge into sound production systems within the context of the demands of both the market and the population.

4) Students are encouraged to develop their skills of literature searching to enable them to locate and interpret information. They are encouraged to develop critical and questioning skills with regard to information they acquire from various sources.

5) The development of presentational skills is one of the major aims of the option in Stage 3. Both written and verbal presentations are important methods of communication both for the modules and for subsequent employment.
Course Objectives

1) To provide students with a core of management orientated courses covering the full stratification of an agricultural business; estate; farm; and individual enterprises.

2) To explain the management techniques used for decision making in agricultural businesses and the environment in which these businesses operate in the UK.

3) To provide the opportunity for students to apply these techniques to farm case-studies and to integrate their knowledge from other courses.

4) To encourage the development of skills in preparing reports with written and verbal presentations.
Additional Costs and Materials

All applicants are required to have access to appropriate footwear and weather protection for farm visits and practical activities. Where possible, candidates should be able to wear steel toe boots or wellingtons.

Laboratory practical sessions require that candidates have access to an approved lab coat.

Facilities

Agriculture programmes at Newcastle are supported by a range of facilities that undergraduate students may wish to access with appropriate permissions, or when required so to do as a part of the learning and teaching timetabled processes. These facilities include however are not limited to:

- Cockle Park Farm
  - Dairy Unit
    - Calves
    - Cows
    - Beef
  - Pig Unit
    - Breeding Sows
    - Rearing Pigs
    - Finishing Pigs
  - Arable Enterprises
    - Cereal Crops
    - Oilseed Crops
  - Palace Leas
  - Forage Crops and Stores
  - Anaerobic Digestion Unit

- Nafferton Farm
  - Conventional Dairy Unit
    - Calves
    - Cows
    - Beef
  - Organic Dairy Unit
    - Calves
    - Cows
    - Beef
  - Arable Enterprises
    - Organic Cereals
    - Organic root crops
  - Organic grassland
  - Organic forage stores

- Computer cluster(s)
- Laboratories
- Libraries
- Soil assessment facilities
A variety of methods of teaching are used to encourage students to develop their learning skills.

Lectures remain one of the most important methods of teaching. They are the most effective way of transmitting information and developing a concept in a limited amount of time. During many lectures discussion and questioning will be encouraged - they will not be monologues!

Seminars presented by staff and fellow students will be used to promote discussion of specific topics. They are used in some modules as a forum for students to present the findings of group work.

The Dissertation provides the opportunity for students to undertake an investigation of their own choosing.

A number of the modules include small case studies or projects. Examples include a whole farm forage utilisation exercise and a feed formulation. These exercises encourage integrative skills and report writing.

Occasional outside visits to farms, establishments and industry are used as appropriate throughout the year.

**Methods of teaching**

**Lectures** are used when they are the most effective way of developing a concept or transmitting information within a short time. However, even within lectures it is likely that there will be a two-way dialogue.

**Workshops** take place within the context of a lecture and consist of short exercises set and reported back within the class to give students immediate practice of certain management techniques.

**Seminars** may be presented to fellow students and to members of staff and are used to promote discussion within the group. They are also used as a forum for students to present project work.

**Projects / Case Studies** form a major component, particularly of the management courses. Projects are set, usually using live farm information, which require students to apply the management techniques presented in the course to particular management problems, and to integrate knowledge from other subject areas. Farm visits are used where appropriate to the project, and written reports are prepared.

**Demonstrations / Practicals** Farm management computer software is an important part of the Farm Business Planning and Control course. This is firstly presented in a demonstration and then practical exercises are used to provide the opportunity for students to practice their use.
Outside visits. A number of farm visits are used in the projects/case studies throughout the course. These visits are designed to provide insight into a number of aspects of farming and the wider agricultural industry in the UK and include:-

- Large estate management
- Large farm management
- Small farm management
- Diversification
- Group marketing
- Technology in agriculture

Management of the B.Sc. Agriculture Degree Programme

Mr Simon Parker (Degree Programme Director)
Dr Helen Adamson (Stage 1 Co-ordinator)
Dr Jeremy Franks (Stage 3 FBM Hons option leader)
Dr Paul Bilsborrow (Stage 3 Agron.Hons option leader)

Honours Option leaders will provide advice and guidance on choices of optional modules and likely consequences of these on career employment opportunities etc. They will also seek your views on organisation and content of the degree, using both questionnaires and discussions which will be fed into the continuous process of programme review and improvement.
All candidates are required to attend direction on best practice in management of health and safety at the university and on-site visits. Health and safety is integral to the ethos of the school of Natural and Environmental Science. The school will make all students aware of the importance of Health and safety at all times during the induction week, however the introduction is intended to encourage all participants to consider how they can better plan and manage health and safety of themselves and their colleagues throughout their time at Newcastle and into their professional status. Failure to attend the health and safety briefing during induction week will preclude a candidate from participating in university activities until the necessary training has been undertaken.

**DEGREE PROGRAMME ADMINISTRATION**

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Email</th>
<th>Agriculture Building Office No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mrs Helen Adamson</td>
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<tr>
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<td>4.06</td>
</tr>
<tr>
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<tr>
<td>Dr Julia Cooper</td>
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</tr>
<tr>
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</tr>
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<td>4.08</td>
</tr>
<tr>
<td>Dr Ankush Prashar</td>
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<td>5.11</td>
</tr>
<tr>
<td>Professor Neil Boonham</td>
<td>Professor of Applied Crop Science</td>
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<td>TBA</td>
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<tr>
<td>Professor Giles Budge</td>
<td>Professor of Applied Crop Science</td>
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<td>5.51 (Ridley Building 2)</td>
</tr>
</tbody>
</table>

**External Examiner for B.Sc. Agriculture**

The appointment for our external examiner is to be confirmed.