

BAGRSC (HONS) - BACHELOR OF AGRICULTURAL SCIENCE - CK412

Overview

NFQ Level 8, Major Award

This is a four year honours degree programme delivered by the School of Biological, Environmental and Earth Science in partnership with Teagasc, Moorepark. This programme includes a **30-week** period of work placement in Third Year.

First Year - Agricultural Science

To be admitted to the First University Examination in Agricultural Science a student must have satisfactorily attended modules amounting to **60** credits.

Second Year - Agricultural Science

To be admitted to the Second University Examination in Agricultural Science a student must have satisfactorily attended modules amounting to **60** credits.

Third Year - Agricultural Science

To be admitted to the Third University Examination in Agricultural Science a student must have satisfactorily attended modules amounting to **60** credits.

Internship (Work Placement)

Students will undertake a 30-week period of work placement (AG3001 Agricultural Science Work Placements), commencing in Semester 2 of Third Year. The work placement comprises a 18-week farm placement and a 12-week industry placement.

Fourth Year - Agricultural Science

To be admitted to the Fourth University Examination in Agricultural Science a student must have satisfactorily attended modules amounting to **60** credits.

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p. 1).

Programme Requirements

Code	Title	Credits
Year 1		
Students take 60 credits as follows:		
<i>Core Modules</i>		
AG1001	Agriculture I (Introduction to Agriculture)	10
BC1001	Introduction to Biochemistry and the Biological Basis of Disease	5
BL1002	Cells, Biomolecules, Genetics and Evolution	5
BL1004	Physiology and Structure of Plants and Animals	5
CM1202	Fundamentals of Modern Chemistry for Agricultural Sciences	10
FE1019	Introduction to Food and Agricultural Economics	5
FE1030	Introduction to International Food Policy	5

FS2005	Principles of Food Science and Technology	5
MA1001	Calculus for Science Part 1	5
PY1109	Physics for Agriculture & Environmental Science	5

Year 2

Students take **60** credits as follows:

Core Modules

AG2001	Agriculture II (Sustainable Food Production)	5
BC2001	Biomolecules	5
BC2002	Principles of Metabolic Pathways	5
BL2001	Plant and Animal Genetics	5
EV1002	Introduction to Environmental Science	5
FE2011	Introduction to Agri Business Management	5
MB1001	Introduction to Food and Industrial Microbiology	5
NT2023	Animal Nutrition	5
PL1012	Fundamentals of Physiology	5
PS2002	Ecological Plant Physiology	5
PS2003	Plant Identification	5
ST2001	Introduction to Biostatistics	5

Year 3

Students take **60** credits as follows:

Core Modules

AG3001	Agricultural Science Work Placements	15
AG3002	Soil Science and Soil/Land Management	5
AG3003	Growth & Lactation Physiology	5
AG3004	Grass and Forage Production	5
AG3006	Farm Safety and On-Farm Risk Assessment	5
GN3003	Population and Evolutionary Genetics	5
FE3023	Agri-Production Economics	5
FE3024	Agri-Food Co-operatives and Sustainability	5
FS3023	Milk Production and Quality for Processing	5
ST3910	Design and Analysis of Experiments for Agriculture and Animal Scientists	5

Year 4

Students take **60** credits as follows:

Core Modules

AG4001	Final Year Research Project	10
AG4002	Applied Bovine Genetics and Genomics	5
AG4003	Animal Nutrition II (including feed conservation)	5
AG4004	Grassland Management	5
AG4005	Farm Infrastructure Design and Farm Mechanisation	5
AG4006	Production Systems, Analysis and Management	5
AG4007	Bovine Health, Behaviour and Welfare	5
AG4008	Business Structures, Career Progression and HR Management on Farms	5
AG4009	Bovine Reproduction & Fertility Management	5
AG4010	Communication, Innovation and Innovation Support	5
FE4002	Global Food Policy	5

Total Credits **240**

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.

Programme Learning Outcomes

Programme Learning Outcomes for BAgrSc (Hons) (NFQ Level 8, Major Award)

On successful completion of this programme, students should be able to:

- Describe agriculture as an integrated system, involving application of aspects of environmental, chemical and biological sciences to the study of farmland and livestock in a sustainable practice;
- Explain the functioning and operation of Irish farm-orientated agriculture;
- Communicate and work effectively with the agricultural and food industry, and with society at large, to a professional standard;
- Apply scientific methods and techniques in the examination of the farmland environment and in the health and welfare of livestock;
- Appraise the social and economic agricultural and food development in a global context;