uwe hartpury

Programme Specification

2011 Intake

Section 1. Basic Data:

Awarding institution/body	University of the West of England
Teaching institution	Hartpury College
Faculty responsible for programme	Hartpury
Programme accredited by	
Highest award title	BSc (Hons) Animal Science
Default award title	
Interim award title	BSc Animal Science DipHE Animal Science CertHE Animal Science
Modular Scheme title	Undergraduate Modular Scheme, Hartpury College
UCAS code	BUWE B80 D320A
Relevant QAA subject benchmarking group(s)	Agriculture, forestry, agricultural sciences, food sciences and consumer sciences
On-going	
Valid from (insert date if appropriate)	**September 2011**

Authorised by: Rosie Scott **Date: March 2011**

Version Code

8.0

Section 2. Educational aims of the programme:

The programme focuses on preparing individuals to become competent, flexible and accountable animal scientists. It enables the student to gain a working understanding and critical awareness of the problems and/or new insights in the field of animal science, including issues pertaining to the area of animal health, nutrition and modern reproductive techniques. The programme will prepare the learner with a foundation for lifelong learning and :

1. Builds on basic scientific principles to develop a knowledge and understanding of the animal in health and disease and uses this knowledge to study animals in the context of present day industry and environment;
2. Provides students with the opportunity to think constructively and critically, discuss and evaluate concepts and theories in the field of animal science, propose sound and reasoned solutions to problems and show clear developments of these skills as a result of the programme;
3. Allows students to choose from a range of options appropriate to their needs, while maintaining a coherent programme of study;
4. Assesses the abilities of the students in a rigorous but constructive way;
5. Meets the needs of the industry sector providing the foundation for a range of careers;
6. Provides students with the ability to transfer skills to different working environments;
7. Assists students to be adaptable to the changing demands of business and society;
8. Provides high quality education and professional development, supported by a strong base of creative and applicable research;
9. Enables students to progress into postgraduate study or research;
10. Subscribes and contributes to the philosophy and operation of the University of the West of England's Undergraduate Modular Scheme.

Section 3. Learning outcomes of the programme:

The programme provides opportunities for students to develop and demonstrate knowledge and understanding, qualities, skills and other attributes in the following areas:

A. Knowledge and understanding of:	**Teaching/learning methods and strategies:**
On successful completion of the programme, the student will have: 1. The ability to analyse and evaluate the problems and/or new insights in the field of animal science, with respect to nutrition, reproduction and animal health. 2. A comprehensive knowledge of anatomical, physiological and nutritional principles related to animal health and disease. 3. The ability to apply underpinning principles of genetics to the health of an animal. 4. An appreciation of the application, development and ethical considerations of reproduction technologies. 5. The ability to apply the knowledge gained during the programme, together with an understanding of how established techniques of research and enquiry are used to create and interpret knowledge in the applied science discipline.	Essential principles and a range of concepts are introduced in the first year and the depth and the breadth of the subject, progressively explored over the next two years through lectures, seminars, laboratory based practical, visits, demonstrations self evaluation and interactive learning through the world wide web (1 & 2). Underpinning principles and processes are examined theoretically and practical skills developed within the laboratory during the three years with continuous assessment of these skills throughout (3 & 4). Learners are exposed to a range of modules throughout the three years, which introduce and develop knowledge and understanding of underpinning sciences, communication skills and diagnostic concepts, through laboratory practical, seminars, lectures and interactive learning through the world wide web (4, 5). Throughout the programme, learners are encouraged to undertake independent reading both to supplement and consolidate what is being taught/learned and to broaden their individual knowledge and understanding of the subject (5). **Assessment** The assessment of knowledge and understanding (1-5) will be undertaken by a variety of means depending on the module. These could include written assignments, unseen examinations, oral and poster presentations and practical assessment.

B. Intellectual Skills:	Teaching/learning methods and strategies:
On successful completion of the programme, the student will be able to: 1. Use problem solving skills and decision making strategies to support the problems and/or new insights in the field of animal science, nutrition, reproduction and animal health. 2. Use skills of reflection, evaluation and critical thinking to support an effective understanding of anatomical, physiological and nutritional principles related to animal health and disease. 3. Demonstrate the ability to apply critical evaluation and informed decision making when discussing modern reproductive techniques used in the animal industries. 4. Demonstrate the ability to undertake sustained study applying deeper cognitive learning to an aspect of animal science. 5. Critically evaluate an aspect of animal science based on systematic rigorous research processes which highlights both implications and recommendations for developing current and future practice. 6. Use skills of reflection, evaluation and critical thinking to support an effective understanding of current legislation in relevant agricultural and animal related polices both in the United Kingdom and Europe. 7. Demonstrate a commitment to continuing professional development and lifelong learning through the development of skills in relation to self directed and independent study.	Intellectual skills (1-6) are developed through the use of enquiry based and problem based learning. For example, students will use case studies or scenarios to develop an understanding of dairy animals. Reflective skills (2) are developed through the use of lectures, seminars and personal tutorial support. Skills of critical thinking (2) are developed through the use of debate, discussion and exploration both within group seminar work and in contact with employers in the relevant industry through visits and guest lectures. Study skills tutorial support is available to help the weaker student develop and workshop sessions are run throughout the first semester which students are encouraged to attend. Assignment feedback gives direction and offers insights to students to establish their competency levels. The formulation of a Personal Development Plan (PDP) is encouraged through personal tutor support and group tutorial support. This encourages the student to be self reflective (2). Principles of problem solving (1) are explored and integrated throughout the modules. Problem solving activities are used within scenario based teaching and learning activities as the students progress through the programme. Skills of judgement are created through exploration of decisions made within the context of dairy herd management (3). A variety of learning methods are employed that are designed to move the student towards taking responsibility for their own learning and to promote the ethos of lifelong learning through key lecture, student led seminars, small group work, skills based practice sessions, student directed study including web based study and learning through professionally based study and learning through professionally based staff and employers in the industry (6 & 7). **Assessment** The assessments of intellectual skills (1-7) are undertaken by a variety of means depending on the module. These include written assignments, unseen or part seen written examinations, seminar oral and poster presentations. The dissertation (5) offers the student the opportunity to undertake a significant piece of independent study and so develop the critical skills of enquiry and analysis.

C.Subject/Professional/Practical Skills:	**Teaching/learning methods and strategies:**
On successful completion of the programme, the student will be able to: 1. Undertake skilled and competent evaluative and practical animal science skills; 2. Communicate effectively with individuals, establishing professional and ethical relationships; 3. Maintain the standards and practices required of the industry; 4. Recognise moral/ethical dilemmas and issues; 5. Perform professional tasks exercising personal responsibility and a capacity to make decisions appropriate to the role in the animal science industries.	Skills (1) are developed through formal teaching, seminars, workshops, and integrated practical sessions; Visits and guest speakers from the industry help the students appreciate the standards required in this field (2 & 3); Seminars and learner led discussions enable the student to appreciate ethical and welfare issues (4 & 5). **Assessment** Due to the applied nature of the programme a significant proportion of the modules include practical assessments, however, at least 50% of assessment will be carried out under controlled conditions.

D. Transferable skills and other attributes:	**Teaching/learning methods and strategies:**
On successful completion of the programme, the student will be able to: 1. Communicate effectively with a wide range of individuals using a variety of means; 2. Evaluate their own academic, vocational and professional performance; 3. Utilise problem solving skills in a variety of theoretical and practical situations; 4. Manage change effectively and respond to changing demands; 5. Take responsibility for personal and professional learning and development; 6. Manage time, prioritise workloads and recognise and manage personal emotions and stress; 7. Understand career opportunities and challenges ahead and begin to plan a career path; 8. Use information management skills, for example: information technology, library resources, the use of information technology in the workplace.	The acquisition of key and transferable skills (1-8) is facilitated through small group work, lectures and seminars. These discussions are extended with employers in the industry through visits and guest lectures. Students are encouraged to explore skills development and inter-professional working through scenario and problem based learning, as well as independent study that include web based learning resources. Students are encouraged to attend careers sessions and to use the UWE careers website (7) in order that they understand career opportunities and begin to plan a career path. Study skills workshops are available to students to facilitate development of time management, and workload prioritisation (6). Students evaluate their own performance through tutorial and assignment feedback and reflection with their PDP (2 & 5). **Assessment** Key transferable skills are assessed in undertaking formative class work, research project module and other module assignments.

Section 4. Programme structure

ENTRY ↓		Compulsory modules	Option modules	Interim awards
	Level 1	UIN XGB-20-1: Anatomy & Physiology	UIN XGG-20-1: Animal Behaviour UIN XGJ-10-1: Animal Microbiology 1 UIN XMR-10-1: Introduction to Animal Welfare UIL XDJ-20-1: Principles of Ecology UIN XGC-20-1: Introduction to Veterinary Science UIN XGD-20-1: Animal Nutrition UIN XGV-10-1: Animal Genetics UIN XGE-10-1-Evolution & Biodiversity	CertHE Animal Science Credit requirements: Requirements: 120 credits at level 0 or above of which not less than 100 are at level 1 or above
	Level 2	UFM EFE-20-2: Statistics & Research Methods	UIN VHD-10-2: Laboratory Animal Management UIN XHE-20-2: Applied Veterinary Science UIN XHF-20-2: Ethics & Welfare UIN XHG-20-2: Animal Production UIL XEC-20-2: Applied Ecology UIN XHJ 10-2: Parasitology UIN XHK-10-2: Animal Microbiology 2 UIN VHU-10-2: Exotic Animal Management UIN VLD-10-2: Behavioural Measurement UIE XBM-10-2: Equine Therapy I UIN VLR-10-2: Field Course UIN XHB-20-2: Applied Animal Nutrition UIN XHX-20-2: Animal Reproductive Physiology	DipHE Animal Science Credit Requirements: Requirements: 240 credits at level 0 or above of which not less than 220 are at level 1 or above and not less than 100 at level 2 or above
	Optional placement year		**UIN XHW-120P-2: Work Experience**	
	Level 3	UIN XJA-10-3: Independent Study UIN XJB-20-3: Developments in Animal Science UIN XJH-40-3: Dissertation	UIL XFL-20-3: Sustainable Management of the Rural Environment UIN XJC-20-3: Management of Animal Collections UIN XJD-10-3: Epidemiology UIN XJF-10-3: Anthrozoology UIN XJJ-20-3: Advanced Animal Production UIN XJK-10-3:Pharmacology UIN XJM-10-3: Animal Psychology UIN XJT-10-3: Life at the Limits	BSc Animal Science Credit Requirements: 300 credits at level 0 or above of which not less than 280 are at level 1 or above, not less than 160 at level 2 or above and not less than 60 at level 3 or above **Target award** BSc (Hons) Animal Science Credit Requirements:

		UIE XCE-10-3: Equine Therapy II	360 credits at level 0 or above of which not less than 340 are at level 1 or above, not less than 200 are at level 2 or above and not less than 100 at level 3 or above

→ GRADUATION

Section 5. Entry requirements:

Applicants must provide evidence which demonstrates to the University's satisfaction that they can benefit from study at honours degree level and are likely to achieve the required standard. Applicants will have achieved five subjects including English, Mathematics and Science at GCSE level and either 240 UCAS Tariff Points or 24 International Baccalaureate points (to include two A2s including a biological science) or equivalent.

We also welcome applicants from a diverse range of backgrounds who do not have the entry requirements outlined above. The university will consider applicants on the basis of evidence of personal, professional and educational experience which indicates an applicant's ability to meet the demands of an undergraduate degree programme. Applicants with non-standard entry criteria will be reviewed on an individual basis. This will take the form of an individual interview with members of the programme team and possibly the completion of a set task such as a written assignment.

Applicants whose first language is not English must also gain a minimum IELTS score of 6.0 prior to entry onto the programme.

Section 6. Assessment Regulations:

University Assessment Regulations

Section 7. Student learning: distinctive features and support:

The purpose of the programme is to provide a balance of vocational and academic study that is intellectually challenging, vocationally relevant, and provides a foundation for pursuing a career within the animal industry. Academic knowledge and understanding reinforces and supports the development of vocational skills, equipping the student with the ability and knowledge relevant to their employment and to the needs of employers.

The programme has been designed to build on the competencies of a wide spectrum of students who should be capable of taking up appropriate positions of responsibility within the varied range of enterprises to be found within the animal based industries.

Core modules in level 1 provide the student with a basic understanding of the physiology of animals in relation to anatomy, nutrition and reproductive technology as well as developing investigative skills for research. This knowledge is extended in the subsequent modules at level 2 with the option modules enabling the student to specialise in areas of particular interest to them. Level 3, whilst still focussing on planning and management, allows the student to maintain and expand specialist options that they have chosen as through the course of study.

The students will be encouraged to undertake an optional placement year where they will gain both practical and business knowledge in the animal industry. After consultation with the Vocational Panel members it was recommended that students have the opportunity to engage with the animal industry in the form of a placement.

Practicals and industry based visits will underpin the students' academic knowledge whilst giving the student the opportunity to practice and develop practical skills required in the industry.

Students are encouraged to maintain a Personal Development Plan (PDP). The PDP underpins the learners ability to evaluate their own academic, vocational and professional preformance with feedback from tutors and visiting speakers from the industry.

Learners will be supported throughout the programme through online web-based support such as the Virtual Learning Environment (VLE) and Digital Collection and individual tutorial sessions with a designated tutor.

Through complementary studies students are able to acquire professional qualifications such as first aid, health and safety, and risk assessment.

Opportunities for learners to develop their information technology skills are available through complementary studies where students can undertake European Computer Driving Licence (ECDL) with support through workshops and learning support.

Section 8. Reference points/benchmarks:

QAA Subject Benchmark Statement:

- Agriculture, Forestry, Agricultural Sciences, Food Sciences and Consumer Sciences

In addition the following benchmarks have been taken into consideration at subject level

- Code of Practice for the Assurance of Academic Quality and Standards in Higher Education: Placement Learning (QAA 2001);
- The Framework for Higher Education Qualifications in England Wales and Northern Ireland (QAA 2001) Foundation Degree QAA document
- University Teaching and Learning Policies: University of the West of England Learning and Teaching Strategy (2001)
- Employer interaction/feedback: Field of Animal Science Vocational Panel meetings.

This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of individual modules can be found in module specifications. These are available on the University Intranet.

Programme monitoring and review may lead to changes to approved programmes. There may be a time lag between approval of such changes/modifications and their incorporation into an authorised programme specification. Enquiries about any recent changes to the programme made since this specification was authorised should be made to the relevant Faculty Administrator.