

PROGRAMME SPECIFICATION

Bachelor of Science with Honours (Fnd) in Animal Medicine (Zoology)

Awarding institution	Yunnan Agricultural University LJMU
Teaching institution	LJMU Yunnan Agricultural University
JACS Code	
Programme Duration	Full-Time: 4 Years
Language of Programme	All LJMU programmes are delivered and assessed in English
Subject benchmark statement	QAA Subject Benchmark Statement - Biosciences (2019)
Programme accredited by	
Description of accreditation	
Validated target and alternative exit awards	Bachelor of Science with Honours (Fnd) in Animal Medicine (Zoology) Diploma of Higher Education in Animal Medicine (Zoology) Certificate of Higher Education in Animal Medicine (Zoology)
Link Tutor	Rachael Symonds

Educational aims of the programme

To provide for all students a defined academic programme of study with clear learning outcomes through diverse learning and teaching methods, and assessment strategies.

To provide students with a wide knowledge and understanding of core subject matter to enable them to pursue a career in animal medicine (zoology) related employment.

To enable students to acquire a high level of practical, analytical, surgical and research skills in animal medicine (zoology).

Encourage students to develop critical, analytical problem-based learning, and transferable skills to prepare the student for graduate employment.

To develop a familiarity biological information technology, and develop communication, analytical and reflective skills necessary to enable students to undertake independent study, and to participate in professional development and lifelong learning.

Enhance graduate employability by providing students with the knowledge, skills required to gain careers in animal medicine or other areas that demand well developed critical thinking, professional practical, analytical and transferable skills.

Alternative Exit/ Interim Award Learning Outcomes - Certificate of Higher Education

A student who is eligible for this award will be able to:

Recall acquired knowledge, facts and procedures of basic concepts and principles relating to animal medicine (zoology).

Explain key concepts in animal medicine (zoology) and processes and interpret scientific data.

Operate in a range of scientific contexts related to animal medicine (zoology) and take responsibility for their contributions and outputs.

Alternative Exit/ Interim Award Learning Outcomes - Diploma of Higher Education

A student who is eligible for this award will be able to:

Apply a broad knowledge base, both theoretical and practical, to determine solutions to a range of scientific problems relating to animal medicine (zoology).

Critically analyse information, demonstrating significant judgement across a range of animal medicine (zoological) areas.

Accept responsibility for determining and achieving personal and/or group outcomes .

Target award Learning Outcomes - Bachelor of Science with Honours (Fnd)

A student successfully completing the programme of study will have acquired the following subject knowledge and understanding as well as skills and other attributes.

A student who is eligible for this award will be able to:

1. Evaluate, utilise and present fundamental facts, concepts, principles and theories of animal medicine (zoology) through the study of molecular, cellular, physiological and anatomical processes, genetics, evolution and behaviour of animals.
2. Demonstrate competence and progressive development in the basic and core experimental and practical skills appropriate to the study of animal medicine (zoology).
3. Recognise and discuss the complexity and diversity of animal anatomy, form and function.
4. Develop an understanding of the ethical and other issues relating to animal welfare and demonstrate familiarity with veterinary and animal research laws and welfare regulations.
5. Recognise the moral and ethical issues of investigations and appreciate the need for ethical standards and professional codes of conduct.
6. Develop a systematic and analytical approach to solving problems.
7. Demonstrate the ability to understand animal clinical diagnosis and treatment and management and prevention and control of animal diseases.
8. Discuss the interdisciplinary nature and professional application of animal medicine (zoology).
9. Recognise and apply zoological theories, paradigms, concepts or principles.
10. Develop an ability to analyse, synthesise and summarise information, including published research or reports, in a critical manner.
11. Apply knowledge and skills of animal medicine (zoology) to address unfamiliar scenarios.
12. Obtain and integrate several lines of evidence to formulate and test hypotheses.
13. Design, plan, conduct and report on investigations, which may involve primary or secondary data.
14. Obtain, record, collate and analyse data using appropriate techniques in practice or laboratory settings, working individually or in a group, as is most appropriate for the subject under study.
15. Undertake practical and/or laboratory investigations of animals in a responsible, safe and ethical manner.
16. Use and interpret a variety of sources of scientific information: textual, numerical, verbal and graphical.
17. Prepare, process, interpret and present scientific data, using appropriate qualitative and quantitative techniques, statistical programmes, spreadsheets and programmes for presenting data visually.
18. Communicate scientific information effectively in written, verbal and visual forms to varied audiences.
19. Cite and reference work in an appropriate manner, ensuring academic integrity and the avoidance of plagiarism whether intentional or not.
20. Use the internet and other electronic technology critically as a means of communication and a source of information.
21. Develop the skills necessary for independent lifelong learning e.g. working independently, time management, organisational and team working skills.
22. Identify and work towards targets for personal, academic, professional and career development.

Teaching, Learning and Assessment

The methods used to enable outcomes to be achieved and demonstrated are as follows:

Knowledge and understanding is promoted through a range of diverse taught sessions including lectures, computer based sessions, workshops, practical laboratory sessions and clinical and surgical sessions, problem based learning and independent study. Knowledge and understanding are assessed in a variety of ways including: written examinations, oral examinations, laboratory and experimental reports, essays and critical reviews, data analysis, case studies, seminar and poster presentations.

Intellectual skills, are developed through all levels of the program. For example, applying theories and concepts;

analysing and synthesising information critically; integrating evidence; applying knowledge and recognition of moral and ethical issues are developed in all modules with an increasing emphasis through the levels of the programme and culminate in the level 6 Research Project. Written exams, laboratory reports, A range of examination questions (e.g. essays, interpretative questions) and a wide variety of coursework including: laboratory and fieldwork reports; critical reviews; data analysis and interpretation exercises; seminar and poster presentations, assess ability for these intellectual skills.

Practical and professional skills are taught during laboratory sessions, during visit and practice sessions at the onsite animal teaching hospital and in workshops. Core principles and minimum standards of practical work are introduced at level 3 and 4, and are further developed through level 5 where more specialist skills are also introduced. The Research Project in level 6 introduces an opportunities for students to apply these practical skills independently. These core practical and professional skills are assessed through written exams, practical reports, on the spot tests and assessment of practical laboratory skills.

Transferable and key skills are inherent within the programme, but specifically they are taught in core modules at all Levels (Skills and Presentations at Level 3; Fundamentals of Scientific Research at Level 4; Research Methods at Level 5, and the Research Project at Level 6). These transferable and key skills are assessed through assessment activities at all levels, in all modules and specifically in the modules mentioned above.

Programme structure - programme rules and modules

Level 6	Potential Awards on completion	Bachelor of Science with Honours (Fnd)
Core	Option	Award Requirements
6501YAUGEN Dissertation-Research Project (40 credits) 6501YAUZOO Current Topics in Zoology (20 credits) 6502YAUZOO Applications of Genetics in Health and Disease (20 credits) 6503YAUZOO Animal Hygiene and Health (20 credits) 6504YAUZOO Obstetrics (10 credits) 6505YAUZOO Animal Infectious Disease prevention and Control (10 credits)		120 core credits at level 6 0 option credits at level 6
Level 5	Potential Awards on completion	
Core	Option	Award Requirements
5501YAUGEN Research Methods (20 credits) 5501YAUZOO Genes and Genomes (20 credits) 5502YAUZOO Disease and Infection Control (20 credits) 5503YAUZOO Animal Quarantine and Drug Residue Detection (20 credits) 5504YAUZOO Surgery, Internal Medicine and Small Animal Diseases (10 credits) 5505YAUZOO Professional Training: Clinical Experiments (10 credits) 5506YAUZOO Epidemiology and Pathological Diagnostic Techniques (20 credits)		120 core credits at level 5 0 option credits at level 5
Level 4	Potential Awards on completion	
Core	Option	Award Requirements
4501YAUGEN Fundamentals of Scientific Research (20 credits) 4501YAUZOO Microbiology and Immunology (20 credits)		120 core credits at level 4 0 option credits at level 4

4502YAUZEN Biochemistry (20 credits) 4502YAUZOO Molecular Biology and Pharmacology (20 credits) 4503YAUZOO Experimental Techniques (20 credits) 4504YAUZOO Professional training: laboratory Skills in Animal Medicine (10 credits) 4505YAUZOO Animal Anatomy and Pathology (10 credits)		
Level 3	Potential Awards on completion	
Core	Option	Award Requirements
3501YAUZEN Anatomy and Physiology (20 credits) 3501YAUZOO Fundamentals of Zoology (20 credits) 3502YAUZEN Skills and Presentations (20 credits) 3502YAUZOO Animal Physiology and Biochemistry (20 credits) 3503YAUZOO General Mathematics (20 credits) 3504YAUZOO General Chemistry (20 credits)		120 core credits at level 3 0 option credits at level 3

Information about assessment regulations

All programmes leading to LJMU awards operate within the University's Academic Framework.
<https://www.ljmu.ac.uk/about-us/public-information/academic-quality-and-regulations/academic-framework>

Opportunities for work-related learning (location and nature of activities)

Practical teaching is an important part of this program. Therefore this program will ensure that the practical component accounts for greater than 30% of the total teaching hours, which is mainly implemented through the following specific links:

1. Curriculum experiments: the vast majority of professional courses occupy approximately 1 / 3 experimental content, ensuring the combination of theory and practice.
2. In- school practice: in addition to the general scientific research facilities available at YAU such as the Agricultural Science Centre, the College of Veterinary Medicine also has our own scientific research facilities such as the veterinary medicine experimental teaching center, which is of more than 2000 square meters, an Animal teaching hospital of more than 3000 square meters, Provincial key laboratory of Banna minipig inbreeding strain and other research platforms. These facilities can provide strong guarantee for the students ability to carry out veterinary clinical practical teaching and learning as well as the final year research project.
3. Off-site visit and practice: a certain proportion of the off-site visit and practice is designed as follows: at present, there are more than 10 off-campus practical teaching bases (farms and vet clinic), which will guarantee the student visits and practice.
4. Research Project: In this programme, LJMU staff will provide online and remote guidance for the Research Project of the students, which lasts throughout the fourth academic year.

Criteria for admission

Overseas qualifications

Students will be recruited from the National Entrance Examination (Gao Kao). Minimum requirement for English must be 90 out of 150 for the exam in Gao Kao.

External Quality Benchmarks

All programmes leading to LJMU awards have been designed and approved in accordance with the UK Quality

Code for Higher Education, including the Framework for Higher Education Qualifications in the UK (FHEQ) and subject benchmark statements where applicable.

The University is subject to periodic review of its quality and standards by the Quality Assurance Agency (QAA). Published review reports are available on the QAA website at www.qaa.ac.uk

Programmes which are professionally accredited are reviewed by professional, statutory and regulatory bodies (PSRBs) and such programmes must meet the competencies/standards of those PSRBs.

Support for students and their learning

The University aims to provide students with access to appropriate and timely information, support and guidance to ensure that they are able to benefit fully from their time at LJMU. All students are assigned a Personal Tutor to provide academic support and when necessary signpost students to the appropriate University support services.

Students are able to access a range of professional services including:

- Advice on practical aspects of study and how to use these opportunities to support and enhance their personal and academic development. This includes support for placements and careers guidance.
- Student Advice and Wellbeing Services provide students with advice, support and information, particularly in the areas of: student funding and financial matters, disability, advice and support to international students, study support, accommodation, health, wellbeing and counselling.
- Students studying for an LJMU award at a partner organisation will have access to local support services

Methods for evaluating and improving the quality and standards of teaching and learning

Student Feedback and Evaluation

The University uses the results of student feedback from internal and external student surveys (such as module evaluations, the NSS and PTES), module evaluation questionnaires and meetings with student representatives to improve the quality of programmes.

Staff development

The quality of teaching is assured through staff review and staff development in learning, teaching and assessment.

Internal Review

All programmes are reviewed annually and periodically, informed by a range of data and feedback, to ensure quality and standards of programmes and to make improvements to programmes.

External Examining

External examiners are appointed to programmes to assess whether:

- the University is maintaining the threshold academic standards set for awards in accordance with the FHEQ and applicable subject benchmark statements
- the assessment process measures student achievement rigorously and fairly against the intended outcomes of the programme(s) and is conducted in line with University policies and regulations
- the academic standards are comparable with those in other UK higher education institutions of which external examiners have experience
- the achievement of students are comparable with those in other UK higher education institutions of which the external examiners have experience

and to provide informative comment and recommendations on:

- good practice and innovation relating to learning, teaching and assessment observed by external examiners
- opportunities to enhance the quality of the learning opportunities provided to students

Please note:

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, teaching, learning and assessment methods of each module can be found in module and programme guides.