

# POSTGRADUATE DIPLOMA IN ANIMAL SCIENCES

PGDip (Animal Sciences) - NQF Level 8 (120 credits)

Qualification code: PDAA23

SAQA ID: 119094, CHE NUMBER: H/H16/E221CAN

Campus where offered: Pretoria Campus

## REMARKS

*a. Admission requirement(s):*

An Advanced Diploma in Animal Sciences, **or** a Baccalaureus Technologiae: Agriculture: Animal Production, **or** a relevant bachelor's degree, **or** an equivalent qualification at NQF Level 7 with 120 credits. Preference will be given to candidates who obtained an average of 60% in the previous qualification.

Holders of any other equivalent South African or international qualification may also be considered, see Chapter 1 of Students' Rules and Regulations.

*b. Selection criteria:*

Admission is subject to selection. Prospective students will be evaluated based on the marks obtained in the previous qualification and/or work experience.

All applicants received by the published due dates will be ranked. After consideration of the Departmental Student Enrolment Plan (SEP), only the top performing applicants will be selected. A waiting list consisting of the remainder of the applicants will provide an opportunity for applicants to fill places created by accepted students failing to meet the enrolment dates. Applicants will be informed of their status per official letter from the Office of the Registrar, alternatively, they can check their application status on the TUT website, [www.tut.ac.za](http://www.tut.ac.za).

*c. Recognition of Prior Learning (RPL), equivalence and status:*

See Chapter 30 of Students' Rules and Regulations.

*d. Intake for the qualification:*

January only.

*e. Presentation:*

Block-mode classes offered over a period of one year. Classes are offered during the day or in the evenings as determined by the Department.

*f. Minimum duration:*

A minimum of one or two years (depending on the programme offering).

*g. Exclusion and readmission:*

See Chapter 2 of Students' Rules and Regulations.

## CURRICULUM

### ATTENDANCE

CODE	MODULE	NQF-L	CREDIT
AAG108G	Applied Animal Breeding and Genetics	(8)	(30)
AAN108G	Applied Animal Nutrition	(8)	(30)
AAR108G	Applied Animal Reproductive Physiology	(8)	(30)
ASR108G	Animal Science Research	(8)	(30)
TOTAL CREDITS FOR THE QUALIFICATION:			<b>120</b>



## MODULE INFORMATION (OVERVIEW OF SYLLABUS)

The syllabus content is subject to change to accommodate industry changes. Please note that a more detailed syllabus is available at the Department or in the study guide that is applicable to a particular module. At time of publication, the syllabus content was defined as follows:

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### **ANIMAL SCIENCE RESEARCH (ASR108G)**

**CONTINUOUS ASSESSMENT**

*(Module custodian: Department of Animal Sciences)*

Key concepts and principles of Animal Science Research. Ethical considerations related to animal science research. Research project proposal writing. Review of relevant literature. Research Methodology: Data collection methods and techniques. Scientific Research Project Execution. Data Analysis Methods and Techniques. Scientific writing and preparation of scientific manuscripts. Submit a Research Report. Presentation of seminars. (Total notional time: 300 hours)

### **APPLIED ANIMAL BREEDING AND GENETICS (AAG108G)**

**1 X 3-HOUR PAPER**

*(Module custodian: Department of Animal Sciences)*

Key concepts and principles of Applied Animal Breeding and Genetics. Animal recording systems and international guidelines for genetic evaluation. Quantitative traits and selection methods in livestock improvement. Evaluation of animal breeding programmes and mating systems. Determination of genetic relationships and covariance between relatives. Development of statistical models for estimation of animal breeding values. Estimation of genetic parameters and application of animal breeding values. Application of modern molecular genetic technologies in livestock improvement. (Total notional time: 300 hours)

### **APPLIED ANIMAL NUTRITION (AAN108G)**

**1 X 3-HOUR PAPER**

*(Module custodian: Department of Animal Sciences)*

Key concepts and principles of Applied Animal Nutrition. Identification of feedstuffs and determination of feedstuff quality. Nutritional analysis of feed ingredients. Applied ruminant nutrition at different physiological stages and for different production purposes. Applied non-ruminant nutrition at different physiological stages and for different production purposes. Ration formulation and evaluation for animals at different stages of production. Applied animal nutrition practices and interactions with the environment. Animal feed industry structure and regulatory standards. (Total notional time: 300 hours)

### **APPLIED ANIMAL REPRODUCTIVE PHYSIOLOGY (AAR108G)**

**1 X 3-HOUR PAPER**

*(Module custodian: Department of Animal Sciences)*

Key concepts and principles of Applied Animal Reproductive Physiology. Gametogenesis in farm animals. Applied endocrinology in farm animals. Growth and development physiology in farm animals. Embryology in farm animals. Reproductive failure in farm animals. Modern assisted reproductive technologies in farm animals. Regulations and ethical issues of assisted reproductive technologies in farm animals. (Total notional time: 300 hours)

