

NATIONAL DIPLOMA: AGRICULTURE: ANIMAL PRODUCTION

Qualification code: NDAP04 - NQF Level 6

Campus where offered: Pretoria Campus

Important notification to new applicants:

Students who intend to enrol for this qualification for the first time in 2017 or thereafter, should note that it will not be possible to continue with any Baccalaureus Technologiae as from 2020, since it is being replaced by qualifications aligned with the newly-implemented Higher Education Qualification Sub-Framework. Potential students are advised to consult the University's website for any new qualifications which might not be published in this Prospectus.

REMARKS

a. *Admission requirement(s) and selection criteria:*

• FOR APPLICANTS WHO OBTAINED A SENIOR CERTIFICATE BEFORE 2008:

Admission requirement(s):

A Senior Certificate or an equivalent qualification, with at least an E symbol at Higher Grade or a D symbol at Standard Grade for English and Mathematics.

Recommended subject(s):

Agricultural subjects. Preference will be given to applicants with Biology and/or Physical Science.

Selection criteria:

Applicants are selected by means of a formula for academic merit, based on scholastic performance.

Formula for determination of academic merit:

SYMBOL	HG VALUE	SG VALUE
A	8	7
B	7	6
C	6	5
D	4	3
E	2	1

Applicants are given two additional points for the following subjects (SG or HG):

Agricultural Economics, Agricultural Science, Agriculture, Biology, Chemistry, Computer Principles, Computer Studies, Field Husbandry, Geography, Mathematics, Physical Science, Physics, Practical Agriculture, Statistics.

- Applicants with a score of 23 and more according to the formula for academic merit determination will be considered for admission.
- Applicants with a score of 20 to 22 according to the formula for academic merit determination will be kept on a waiting list from which the applicants with the highest scores will be selected. Waiting lists will be cleared at the end of September and November.

• FOR APPLICANTS WHO OBTAINED A NATIONAL SENIOR CERTIFICATE IN OR AFTER 2008:

Admission requirement(s):

A National Senior Certificate with a bachelor's degree or a diploma endorsement, or an equivalent qualification, with an achievement level of at least 4 for English (home language or first additional language) and 3 for Mathematics or 4 for Mathematical Literacy.



Recommended subject(s):

Preference will be given to applicants with Biology, and/or Physical Sciences.

Selection criteria:

To be considered for this qualification, applicants must have an Admission Point Score (APS) of at least **19** (with Mathematics) or **20** (with Mathematical Literacy).

Assessment procedures:

- Applicants with a score of 23 and more will be considered for admission.
 - Applicants with a score of 20 (19 with Mathematics) to 23 will be kept on a waiting list from which the applicants with the highest APS will be selected. Waiting lists will be cleared at the end of September and November.
- b. *Minimum duration:*
Three years.
- c. *Presentation:*
Day classes.
- d. *Intake for the qualification:*
January only.
- e. *Exclusion and readmission:*
See Chapter 2 of Students' Rules and Regulations.
- f. *Recognition of Prior Learning (RPL), equivalence and status:*
See Chapter 30 of Students' Rules and Regulations.
- g. *Work-Integrated Learning I and II:*
See Chapter 5 of Students' Rules and Regulations.
- h. *Subject credits:*
Subject credits are shown in brackets after each subject.

Key to asterisks:

- * Information does not correspond to information in Report 151.
(Deviations approved by the Senate in August 2005.)

CURRICULUM

FIRST YEAR			
CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
FIRST SEMESTER			
AAP101T	Agricultural Anatomy and Physiology I	(0,125)	
AGS101T	Agricultural Science I	(0,125)	
NPT101T	Natural Pastures I	(0,125)	
TOTAL CREDITS FOR THE SEMESTER:		0,375	
SECOND SEMESTER			
ANU201T	Animal Nutrition II	(0,125)	Agricultural Science I
APE101T	Animal Production Economics I	(0,125)	
CVT101T	Cultivated Pastures I	(0,125)	
TOTAL CREDITS FOR THE SEMESTER:		0,375	
TOTAL CREDITS FOR THE FIRST YEAR:		0,750	



SECOND YEAR

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
FIRST SEMESTER			
BPD201T	Beef Production II	(0,125)	Agricultural Anatomy and Physiology I
MPD201T	Milk Production II	(0,125)	Agricultural Anatomy and Physiology I
PFM201T	Pig Production II	(0,125)	Agricultural Anatomy and Physiology I
POD201T	Poultry Production II	(0,125)	Agricultural Anatomy and Physiology I
SSP201T	Small Stock Production II	(0,125)	Agricultural Anatomy and Physiology I
TOTAL CREDITS FOR THE SEMESTER:		0,625	
SECOND SEMESTER			
MPM101T	Manpower Management I	(0,124)*	
plus three of the following subjects:			
BPD301T	Beef Production III	(0,167)	Beef Production II
MPD301T	Milk Production III	(0,167)	Milk Production II
PFM301T	Pig Production III	(0,167)	Pig Production II
POD301T	Poultry Production III	(0,167)	Poultry Production II
SSP301T	Small Stock Production III	(0,167)	Small Stock Production II
TOTAL CREDITS FOR THE SEMESTER:		0,625	
TOTAL CREDITS FOR THE SECOND YEAR:		1,250	

THIRD YEAR

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
FIRST OR SECOND SEMESTER			
EXP1AAP	Work-Integrated Learning I (on completion of all the above subjects)	(0,500)	
EXP2AAP	Work-Integrated Learning II	(0,500)	Work-Integrated Learning I
TOTAL CREDITS FOR THE THIRD YEAR:		1,000	
TOTAL CREDITS FOR THE QUALIFICATION:		3,000	



SUBJECT/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 subject/module. On 01 August 2017, the syllabus content was defined as follows:

A

AGRICULTURAL ANATOMY AND PHYSIOLOGY I (AAP101T) 1 X 3-HOUR PAPER

(Subject custodian: Department of Animal Sciences)

A systematic, summarised study of the skeleton, muscular system, organs and organ systems of the different farm animals, as well as the physiology of digestion, milk production and endocrinology. (Total tuition time: ± 70 hours)

AGRICULTURAL SCIENCE I (AGS101T) 1 X 3-HOUR PAPER

(Subject custodian: Department of Animal Sciences)

An introduction to the basics of science, as required later in the qualification. Specific aspects of organic chemistry, biochemistry, physics, mathematics, biology, computer application, cell biology, genetics and accounting. (Total tuition time: ± 96 hours)

ANIMAL NUTRITION II (ANU201T) 1 X 3-HOUR PAPER

(Subject custodian: Department of Animal Sciences)

The maintenance and production requirements of ruminants and monogastric animals. The nutrients in feed, namely protein, energy, vitamins, minerals and fats. Feed components and chemical feed additives. (Total tuition time: ± 96 hours)

ANIMAL PRODUCTION ECONOMICS I (APE101T) 1 X 3-HOUR PAPER

(Subject custodian: Department of Crop Sciences)

Study field of agricultural economics with the emphasis on production management and micro-economics of production, with specific reference to animal production systems. Introduction to general farming management and internal management information systems with reference to the principles of financial management under conditions of risk and uncertainty in an agricultural context. (Total tuition time: ± 40 hours)

B

BEEFER PRODUCTION II (BPD201T) 1 X 3-HOUR PAPER

(Subject custodian: Department of Animal Sciences)

An introductory study of beeper production with the emphasis on the beeper industry, breeds, breeding, reproduction, equipment, marketing, diseases and nutrition. (Total tuition time: ± 96 hours)

BEEFER PRODUCTION III (BPD301T) 1 X 3-HOUR PAPER

(Subject custodian: Department of Animal Sciences)

An in-depth study of management programmes, marketing, seminars, applied nutrition, the efficiency of farming, judging, farm planning, beeper production and computer application. (Total tuition time: ± 70 hours)

C

CULTIVATED PASTURES I (CVT101T) 1 X 3-HOUR PAPER

(Subject custodian: Department of Animal Sciences)

Broadening the field of pasture science by studying the role of cultivated pastures, soil and veld management, radical veld improvement, irrigation, fodder conservation, grass and legume pastures, grazing mixtures, drought feeding and fodder-flow planning. (Total tuition time: ± 120 hours)

M

MANPOWER MANAGEMENT I (MPM101T) 1 X 3-HOUR PAPER

(Subject custodian: Department of Animal Sciences)

Cardinal aspects of legislation, trade unions, human relations, ethics in the workplace, grievance procedures, in-service training, appointments and work studies. (Total tuition time: ± 60 hours)



MILK PRODUCTION II (MPD201T)**1 X 3-HOUR PAPER****(Subject custodian: Department of Animal Sciences)**

Introduction to milk production with the emphasis on the dairy industry, dairy breeds, nutrition and management, milk production, breeding, reproduction, herd health, herd composition, parlour layout and mechanical milking. (Total tuition time: ± 96 hours)

MILK PRODUCTION III (MPD301T)**1 X 3-HOUR PAPER****(Subject custodian: Department of Animal Sciences)**

An in-depth study of health regulations, the processing of dairy products, applied economics and management, applied nutrition, applied breeding, seminars, equipment, planning and layout of units, management programmes. Farm planning: milk production and computer application. (Total tuition time: ± 96 hours)

N**NATURAL PASTURES I (NPT101T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Animal Sciences)**

The importance of veld pastures. The morphology, physiology and composition of grasses. Ecological and grazing concepts. Production characteristics of the main grazing areas of South Africa. Growth and production. Veld evaluation. The animal as a factor in veld management. Methods and principles of veld management. (Total tuition time: ± 120 hours)

P**PIG PRODUCTION II (PFM201T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Animal Sciences)**

An introductory study of the South African pig industry, breeds, breeding, reproduction, nutrition, diseases and housing. (Total tuition time: ± 30 hours)

PIG PRODUCTION III (PFM301T)**1 X 3-HOUR PAPER****(Subject custodian: Department of Animal Sciences)**

An in-depth study of breeding, management, housing, applied nutrition, marketing, economy, data processing, reproduction technology, farm planning - pig production and computer application. (Total tuition time: ± 30 hours)

POULTRY PRODUCTION II (POD201T)**1 X 3-HOUR PAPER****(Subject custodian: Department of Animal Sciences)**

An introductory study of poultry production with the emphasis on the poultry industry, breeds, breeding, reproduction, equipment, housing, nutrition and diseases. (Total tuition time: ± 96 hours)

POULTRY PRODUCTION III (POD301T)**1 X 3-HOUR PAPER****(Subject custodian: Department of Animal Sciences)**

An in-depth study of broiler management, layer management, seminars, the handling of manure, marketing, applied nutrition, hatchery management, strategic planning. Farm planning: poultry production and computer application. (Total tuition time: ± 96 hours)

S**SMALL STOCK PRODUCTION II (SSP201T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Animal Sciences)**

Introduction to small stock production with the emphasis on the small stock industry, small stock races, breeding, reproduction, diseases, nutrition and production systems. (Total tuition time: ± 70 hours)

SMALL STOCK PRODUCTION III (SSP301T)**1 X 3-HOUR PAPER****(Subject custodian: Department of Animal Sciences)**

An in-depth study of management programmes, applied nutrition, marketing, equipment and housing, seminars, wool classification, breeding, judging, strategic planning. Farm planning: small stock production and computer application. (Total tuition time: ± 96 hours)



W

WORK-INTEGRATED LEARNING I (EXP1AAP)

WORK-INTEGRATED LEARNING II (EXP2AAP)

(Subject custodian: Department of Animal Sciences)

WORK-INTEGRATED LEARNING

WORK-INTEGRATED LEARNING

A project as determined by the University in collaboration with the employer. (Total tuition time: six months)

