
Study units for the National Diploma: Animal Health

(offered by the School of Agriculture and Life Sciences)
Telephone number 011 471 2984

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Syllabus

FIRST LEVEL

PAH131S Anatomy And Physiology: Animal Health I (Examination: 1 x 3 hour paper)

Co-requisite: AHPRW*-G Practical contact course

Syllabus: Conformation and body measurements of domestic animals; animal cells, cell types and tissues; cardio-vascular and lymphatic system; digestive system; urinary system; respiratory system; integumentary system; reproductive system; endocrine system; central nervous system; movement and skeletal system.

AND101A Animal Diseases: Animal Health I (Examination: 1 x 3 hour paper)

Syllabus: Introduction: Commercial and traditional farming, role of animal health technicians, acts, common terms; handling of domestic animals (livestock and companion animals): facilities, catching and handling, transport and bruising, examinations; short introductory overview about game: farming, transport and handling; disease prevention (principles, immunity and resistance, parasite control); animal first aid and correct use of medicine & equipment, including overview of basic equipment used (names, description including graphics, function and use); disease investigations; livestock production (cattle, sheep, goats, poultry, pigs, horses, game, ostriches, aquaculture).

RGB111N See Computer Usage

EPD101T Epidemiology: Animal Health I (Examination: 1 x 3 hour paper)

Syllabus: Introduction to epidemiology; disease as a phenomenon; epidemiological surveillance; basic descriptive epidemiology; description according to agent-environment-animal model.

LDS141Q Laboratory Diagnostics I (Examination: 1 x 3 hour paper)

Syllabus: Laboratory diagnostic procedures (smears, faecal samples, bacteriology, skin scrapings); laboratory methodology; chemical pathology and toxicology; serology; microscopy.

LGT101L Legislation: Animal Health I (Examination: 1 x 3 hour paper)

Syllabus: General principles of legislation; interpretation of legislation; relevant aspects of the Criminal Procedure Act; reporting a crime; practical application of the law in courts; specific legislation: Animal Diseases, Pharmacology, Veterinary Public Health; special legislation for Namibia.

MAH101A Management: Animal Health I (Two modules)

See 'Management'

Similar study unit: MNG131V

OCA101C Occupational Communication: Animal Health I (Examination: 1 x 3 hour paper)

Syllabus:

MODULE I: Introduction to communication concepts; culture and intercultural communication; verbal and non-verbal communication; communication models; interpersonal communication; small-group communication; organisational communication; reading and writing skills 1; effective speaking and listening skills; advanced correspondence 1; meetings and meeting procedures; report writing.

MODULE II: Mass communication; public relations and advertising; style, tone and register; non-verbal communication 1& 2; Reading and writing skills 2; advanced correspondence 2; job interviews; effective speaking and listening skills 2; persuasion; handling conflict; negotiations; career skills; needs analysis and decision making.

Similar study unit: KVH171Y

PNH151U Pasture And Nutrition: Animal Health I (Examination: 1 x 3 hour paper)

Syllabus: Pasture management: ecological principles; veldtypes of Southern Africa; characteristics of veldtypes; feeding habits and selective feeding; dividing of veld into homogenous ecological units; principles of pasture management; principles of the resting of veld; invasive plants; planted pastures.

Nutrition: chemical composition of feeds; energy and protein standards of feeds; digestion of feeds; nutritional requirements of farm animals; classification and nutritional values of feeds; feeding of various groups of animals.

SECOND LEVEL

AEA271V Agricultural Economics: Animal Health I (Examination: 1 x 3 hour paper)

Syllabus: The food chain; agriculture in the national framework; price formation in agriculture; profitability; farming structure; farming income; international trade in agricultural products; technological progress; supply and demand curves.

AND201A Animal Diseases: Animal Health II (Examination: 1 x 3 hour paper)

Prerequisite: AND101A

Syllabus: Ruminants: Internal parasites of ruminants and their effective control, external parasites and their effective control; viral diseases; bacterial diseases; protozoal diseases; metabolic diseases, nutritional deficiencies and imbalances, diarrhoea and digestive disturbances; the stages of mastitis, detection and treatment; perinatal and neonatal conditions and disturbances; primary animal health programmes.

Companion animals: Internal and external parasites and their effective control; viral diseases; bacterial diseases; protozoal diseases; metabolic diseases, nutritional imbalances, diarrhoea and digestive disturbances; perinatal and neonatal conditions and disturbances; primary animal health programmes.

EPD201A Epidemiology: Animal Health II (Examination: 1 x 3 hour paper)

Prerequisite: EAH121T

Syllabus: Basic analytical epidemiology; field investigation of disease outbreaks or problem occurrence; screening and diagnostic methods; strategies for disease control, prevention and eradication.

PHT201A Pharmacology & Toxicology: Animal Health II (Examination: 1 x 3 hour paper)

Syllabus: Pharmacology: Introduction to pharmacology: definition of medication, absorption distribution and metabolism of drugs, routes of administering drugs (oral and parenteral), factors influencing the above mentioned, withdrawal period; medications used in animals, handling and storage of drugs; knowledge of: antibiotics, antibacterials, hormones, antihistamines, vitamins, counterirritants, emollients, vaccines, antisera, fungicides, insecticides, anthelmintics, disinfectants, immobilizations, anaesthetics, antidotes and antiseptics.

Toxicology: Study of the effect and treatment of diseases caused by toxic products such as: arsenic, lead, urea, salt, strychnine, cyanide, mercury, chlorinated hydrocarbons, organophosphates, herbicides, rodenticides and poisonous plants, minerals and fungi.

THIRD LEVEL

AND301A Animal Diseases: Animal Health III (Examination: 1 x 3 hour paper)

Prerequisite: AND201A

Syllabus: Non-ruminant diseases: pigs, horses, poultry and ostriches. Viral diseases; bacteriological diseases; protozoal diseases; metabolic diseases, nutrient deficiencies and imbalances, diarrhoea and digestive disturbances; internal and external parasites: detection and effective control; perinatal and neonatal conditions; primary animal health care (where applicable); overview of important diseases and conditions in wildlife, crocodiles and aquaculture.

EPD301A Epidemiology: Animal Health III (Examination: 1 x 3 hour paper)

Prerequisite: EPD201A

Syllabus: Basic principles of animal health productivity and economics; risk assessment and management; health triad: an integrated approach; epidemiology in quality assurance systems.

VPH301A Veterinary Public Health III (Examination: 1 x 3 hours paper)

Syllabus: Meat inspection and Hygiene in red meat abattoirs: Orientation and abattoir hygiene; abattoir layout and slaughtering process; safety aspects; quality control system and record keeping; disposal of condemned or inedible products; meat inspection.

Poultry meat inspection: Poultry anatomy and physiology; poultry diseases and pathology; poultry meat inspection.

Meat inspection and hygiene in ostrich abattoirs: Ostrich anatomy and physiology; ostrich diseases and pathology; ostrich meat inspection.

Secondary food products of red meat and poultry industry and VPH: Principles of the production of dairy products; quality control of dairy products; principles of egg production; quality control of eggs.

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Experiential Learning

ANH301A Animal Health Practice III

(Experiential Learning: No formal examination)

Experiential learning and completion of logbook sheets; completion of prescribed projects; final evaluation done based on portfolio.

Unemployed learners registering for the experiential learning component have to identify and arrange with a mentor under whose supervision they plan to do their experiential learning. The mentor should be either a State Veterinarian or Senior Technician attached to an accredited provincial veterinary service (as listed in Part 3 of the Calendar) or a local private veterinarian who is willing to assist learners in this regard.

See Curriculum as well as the notes of this diploma in Part 3 of the College calendar.

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Practical Contact Courses

NB

* Use the subject code next to the date and venue you would like to attend when you register for the practical contact course. See table in Annexure B of the College calendar.

AHPRW1G* Anatomy & Physiology

AHPRW2G* Anatomy & Physiology

Dates for the following practical contact courses will be communicated after venues and dates have been finalised with the offering State Veterinarian Provincial office.

AHPR02G Laboratory Diagnostics

AHPR03G Reproduction Management

AHPR04G Tuberculosis/Brucellosis

AHPR05G Meat Hygiene