



Canine Anatomy and Physiology Diploma

The course is designed for those who have either successfully completed the Canine Studies programme or those who feel they already have knowledge of subjects such as health, nutrition and responsible dog ownership.

Module 1: The Canine Skeleton

- The points of the dog
- The canine skeleton
- Bones
- Growth
- The function of the skeleton
- The spinal column
- The skeletal anatomy of ribs and chest
- The skeletal anatomy of the feet
- The anatomy of the forequarters
- The anatomy of the hindquarters
- The skull
- Skull types
- Joints
- Health problems

Module 2: The Muscles And Coat

- The muscles
- What are muscles
- Skeletal muscle
- Cardiac muscle
- Smooth muscle
- Comparing the three types of muscles found in the dog
- The skin
- The epidermis
- The dermis
- The subcutaneous layer

- The skin as a temperature regulator
- Anal sacs
- Skin problems
- Hair
- Types of coats
- Moulting
- Grooming
- The dog's nails
- The pads

Module 3: The Reproductive And Urinary Systems

- The reproductive system
- Asexual reproduction
- Sexual reproduction
- The anatomy of reproduction
- The bitch
- Pro-oestrus
- Oestrus
- The reproductive organs of the bitch
- The dog
- The reproductive organs of the dog
- Courtship and mating
- Mating
- The development of the foetus
- Parturition
- The stages of labour
- The mammary glands
- The endocrine system
- The major elements of the endocrine system
- Fight or flight
- Behaviour
- Male characteristics
- Female characteristics
- The urinary system
- The kidneys
- The bladder

Module 4: Dentition, Digestion And Respiratory Systems

- Dentition
- The 42 teeth of the adult dog
- Structure of a tooth
- Dental eruption times
- Dental variations in dogs

- Digestion
- The alimentary canal
- Types of food
- The five main food types
- Carbohydrates
- Fats and oils
- Proteins
- Minerals
- Vitamins
- Assimilation
- The respiratory system

Module 5: The Cardiovascular And Nervous Systems

- The cardiovascular system
- The heart
- The nervous system
- The central nervous system
- The brain
- The spinal cord
- The neurone
- The autonomic nervous system (ans)
- Some functions of the ans
- An introduction to the canine senses

Module 6: Form And Function

- Introduction to form and function
- Canine senses: sight, hearing, olfaction, taste, touch
- How different breeds originated
- The difference between natural selection and artificial selection
- Different breeds and the group system
- The seven groups
- Hound Group
- Terrier Group
- Gundog Group
- Utility Group
- Toy Group
- Working Group
- Pastoral Group
- The endocrine system
- The canine endocrine system and the four major functions
- Glands, hormones and effects
- Making and releasing hormones

Course Details:

Study Level 3

The study Level relates to the how demanding the course is. 1 is beginner and 5 is HND / Foundation Degree level UK.

6 Module Course

This course is delivered in 6 study modules which need to be passed to gain the qualification

For more information regarding this course please contact Celia Forsyth at celia@petsensecollege.co.za.