Course Description
ANIMAL MANAGEMENT

AH 200. LIVESTOCK BUILDINGS

Principles and requirements of livestock buildings.

Prerequisite: ANSCI 100
1 hour a week lecture
Credit: 1 unit

AH 210. PRINCIPLES OF ANIMAL GENETICS AND BREEDING

Genetic principles and its application to animal breeding.

Prerequisite: ANSCI 100
3 hours a week lecture
Credit: 3 units

AH 220. LABORATORY ANIMAL SCIENCE

Basic principles of laboratory animal science; importance of laboratory animal in field of veterinary medicine and husbandry of selected laboratory animals.

Prerequisite: none
2 hours a week lecture
Credit: 2 units

AH 230. ZOO AND WILDLIFE PARK MANAGEMENT

Fundamentals, principles and application of management of zoos and wildlife parks; Concepts in organizational structures, wildlife handling and presentation of the importance of wildlife to the community.

Prerequisite: none
2 hours a week (lecture/fieldtrip to zoos and wildlife park)
Credit: 2 units

AH 240. ALTERNATIVE ANIMAL PRODUCTION

Study of emerging animal production practices and its significance in the animal industry.

Prerequisite: ANSCI 100
1 hour a week lecture
Credit: 1 unit

AH 250. EQUINE PRODUCTION

Principles of breeding, nutrition, care and management of horses.

Prerequisite: ANSCI 100
1 hour a week lecture
Credit: 1 unit

VETERINARY MORPHPPHYSIOLOGY AND PHARMACOLOGY

VANA 200. ANIMAL ANATOMY I

Topographic and regional dissection of the goat.

Prerequisite: ZOO 100
9 hours a week (3 lec, 6 lab)
Credit: 5 units

VANA 205. ANIMAL ANATOMY II

Comparative study and dissection of the horse, pig, dog, cat and fowl.

Prerequisite: VANA 200
8 hours a week (2 lec, 6 lab)
Credit: 4 units

VANA 210. DEVELOPMENTAL ANATOMY

Embryonic and fetal development of domestic animals and poultry including related reproductive phenomena.

Prerequisite: ZOO 100
5 hours a week (2 lec, 3 lab)
Credit: 3 units

VANA 215. MICROSCOPIC ANATOMY

Microscopic study of the structures and morphology of cells, tissues and organs of domestic animals.

Prerequisite: VANA 210
8 hours a week (2 lec, 6 lab)
Credit: 4 units

VPHAR 200. GENERAL PHARMACOLOGY

Principles of pharmacy, pharmacology and therapeutics of drugs acting on the different body systems.

Prerequisite: VPHYS 205
6 hours a week (3 lec, 3 Lab)
Credit: 4 units

VPHAR 205 THERAPEUTICS

Chemotherapy, fluid therapy; their effects on the animals body systems.

Prerequisite: VPHAR 200
6 hours a week (3 lec, 3 Lab)
Credit: 4 units

VPHYS 200. SYSTEMIC PHYSIOLOGY I

Physiology of muscles, nervous, respiratory, blood, and cardiovascular system.

Prerequisite: CHEM 220
6 hours a week(3 lec, 3 lab)
Credit: 4 units

VPHYS 205. SYSTEMIC PHYSIOLOGY II

Physiology of the respiratory, digestive, metabolic, urinary and body fluid systems.

Prerequisite: VPHYS 200
6 hours a week (3 lec, 3 lab)
Credit: 4 units

VPHYS 210. ETHOLOGY AND ANIMAL WELFARE

Introduction to animal behavior and animal welfare.

Prerequisite: VPHYS 200
1 hour a week lecture
Credit: 1 unit

VPHYS 215 . ENDOCRINOLOGY AND REPRODUCTIVE PHYSIOLOGY

The endocrine organs, their secretion and functional regulation; physiology of reproduction and related phenomena.

Prerequisite: VPHYS 205
5 hours a week (2 lec, 3 lab)
Credit: 3 units

VPHYS 220. ANIMAL CLIMATOLOGY AND ENVIRONMENTAL PHYSIOLOGY

Mechanics of thermoregulation and animal adaptations; physiological mechanisms of animal adaptation, body temperature regulations; related nutritional, metabolic and hormonal functions affecting animal production.

Prerequisite: VPHYS 215
2 hours a week lecture
Credit: 2 units

VETERINARY PATHOBIOLOGY

VPATH 200. GENERAL PATHOLOGY

Principles of pathology and fundamentals of necropsy; histopathological methods and introduction toimmunopathology, oncology and teratology.

Prerequisite: VANA 215
8 hours a week (2 lec, 6 Lab)
Credit: 4 units

VPATH 205. SYSTEMATIC PATHOLOGY

Gross and microscopic pathology of the different body systems with emphasis on morphological lesions; necropsy and histopathological studies.

Prerequisite: VPHATH 200
5 hours a week (2 lec, 3 Lab)
Credit: 3 units

VPATH 210. MICROSCOPY,MICROTECHNIC AND PHOTOGRAPHY

Principles and methods in microscopy, animal tissue technique, micro- and macro-photography as applied in the study of pathology.

Prerequisite: VPATH 200
6 hours a week Laboratory
Credit: 2 units

VPATH 215. CLINICAL PATHOLOGY

Collection and examination of body fluids and secretions; interpretation of laboratory findings.

Prerequisite: VPATH 205
5 hours a week (2 lec, 3 Lab)
Credit: 3 units

VPATH 220. SPECIAL PATHOLOGY

Pathology of notifiable and emerging diseases of domestic animals in the tropics.

Prerequisite: VMICR 205, VPATH 205
4 hours a week (1 lec, 3 Lab)
Credit: 2 units

VPATH 230. TOXICOLOGY

Study of toxic materials which are organic and inorganic in origin and their effects on the animal body systems.

Prerequisites: VPHYS 205, VPATH 205
1 hour a week lecture
Credit: 1 unit

VMICR 200. GENERAL MICROBIOLOGY

Principles and fundamentals of microbiology, taxonomy and basic laboratory techniques and their application to the study of bacteria, fungi and viruses.

Prerequisite: BOT 100, ZOO 100
6 hours a week (3 lec, 3 Lab)
Credit: 4 units

VMICR 205. BACTERIOLOGY AND MYCOLOGY

Physiological, cultural characteristics, growth requirements of bacteria and fungi and their pathogenesis, diagnosis and control.

Prerequisite: VMICR 200
5 hours a week (2 lec, 3 lab)
Credit: 3 units

VMICR 210. VIROLOGY

Viruses of veterinary importance, their pathogenesis, laboratory diagnosis, prevention and control.

Prerequisite: VMICR 200
4 hours a week (1 lec, 3 Lab)
Credit: 2 units

VMICR 215. FUNDAMENTALS OF IMMUNOLOGY

Viruses of veterinary importance, their pathogenesis, laboratory diagnosis, prevention and control.

Prerequisite: VMICR 200
5 hours a week (2 lec, 3 Lab)
Credit: 3 units

VMICR 220. INFECTIOUS DISEASES OF WILDLIFE, FISH AND LABORATORY ANIMALS

Diseases of veterinary importance to wildlife, fish and laboratory animals and their pathogenesis, diagnosis, control and prevention.

Prerequisite: VMICR 200
2 hours a week lecture
Credit : 2 units

VPARA 200. VETERINARY ENTOMOLOGY

Study of arthropods of veterinary importance-morphology, classification, life cycle, pathogenesis, prevention and control.

Prerequisite: BOT 100 and ZOO 100
5 hours a week (2 lec, 3 Lab)
Credit: 2 units

VPARA 205. PROTOZOOLOGY

Study of protozoa of veterinary importance-morphology, classification, life a cycle, pathogenesis, control and prevention.

Prerequisite: BOT 100 and ZOO 100
4 hours a week (1 lec, 3 Lab)
Credit: 2 units

VPARA 210. HELMINTHOLOGY

Helmiths of veterinary importance: their morphology, classification, life cycle, pathogenesis, control and prevention.

Prerequisite: VPARA 200 and VPARA 205
8 hours a week (2 lec, 6 Lab)
Credit: 4 units

VPH 200. ENVIRONMENTAL SANITATION

Effects of modern agriculture on ecology of natural systems with emphasis on role of animal husbandry and its relation to environmental sanitation.

Prerequisite: BOT 100 and ZOO 100
5 hours a week (2 lec, 3 Lab)
Credit: 3 units

VPH 205. EPIDEMIOLOGY

Patterns of occurrence of epizootic diseases.

Prerequisite: VMICR 200
3 hours a week lecture
Credit: 3 units

VPH 210. ZOONOSES

Diseases shared by man and animals-epidemiology, prevention and control,

Prerequisite: VPH 205
6 hours a week (3 lec, 3 Lab)
Credit: 4 units

VPH 215. FOOD HYGIENE

Hygienic principles applied in the handling, processing, and storage of meat, milk and their derivative products; inspection standards, regulations and laws and their application.

Prerequisite: VPH 205
6 hours a week (3 lec, 3 Lab)
Credit: 4 units

VETERINARY CLINICAL SCIENCES

VCLIN 300. CLINICAL ORIENTATION I

Demonstration of methods in clinical examination, common veterinary procedures, xenobiotics and diagnostics and orientation of the operating procedures in the CVSM Veterinary Hospital by the clinical staff.

Prerequisite: Completion of 4th Year Courses
6 hours a week laboratory
Credit: 2 units

VCLIN 305. CLINICAL ORIENTATION II

Continuation of Clinical Orientation I: Review of breeds of companion animals, management of common clinical complaints; diseases, zoonoses, and clinical radiography; overview of the animal industry and herd health programs.

Prerequisite: VCLIN 300
6 hours a week laboratory
Credit: 2 units

VCLIN 310. CLINICAL INTERNSHIP

Internship at the CLSU Veterinary Hospital supplemented with a review management of emergency cases, nutrition and care of animals, special therapeutic procedures, common diseases of food animals and veterinary drugs in the local market; reporting, presentation and discussion of selected cases by senior students and the clinical staff.

Prerequisite: Completion of 5th Year Courses
18 hours a week laboratory
Credit: 6 units

VCLIN 315. FIELD EXPERIENCE

Clinicians to be deployed in the different veterinary stations including CLSU station with emphasis on veterinary economic and feasibility studies; introduction to veterinary associations; status of veterinary practice in the country; review of breeds of food animals, reproduction and breeding; meat inspection, diagnostic procedures, ECG and advances in diagnostic procedures abroad.

Prerequisite: VCLIN 310
42 hours a week laboratory
Credit: 14 units

VCLIN 320. CLINICO-PATHOLOGICAL CONFERENCE I

Presentation of clinical cases.

Prerequisite:
1 hour a week lecture
Credit: 1 unit

VCLIN 325. CLINICO-PATHOLOGICAL CONFERENCE II

Continuation of Clinic-Pathological Conference I.

Prerequisite: VCLIN 320
1 hour a week laboratory
Credit: 1 unit

VMED 300. PRINCIPLES OF DISEASE MANAGEMENT

Principles of diagnosis, treatment, and control of diseases; supplemental demonstration of cases.

Prerequisite: VMICR 200 and VPHYS 200
2 hours a week lecture
Credit: 2 units

VMED 303. ETHNO-VETERINARY MEDICINE

Principles and application of herbal medicine to veterinary medicine.

Prerequisite: VMED 300
1 hour a week lecture
Credit: 1 unit

VMED 305. DISEASES OF SMALL ANIMALS

Etiology, epidemiology, diagnosis and control of common and important infectious and non-infectious diseases of dogs and cats.

Prerequisite: VMED 300
4 hours a week lecture
Credit: 4 units

VMED 310. DISEASES OF SWINE AND POULTRY

Etiology, epidemiology, pathology, diagnosis, control and prevention of common and important infectious diseases of swine and poultry in the Philippines,

Prerequisite: VMED 300
3 hours a week lecture
Credit: 3 units

VMED 315. DISEASES OF RUMINANTS

Etiology, epidemiology, diagnosis and control of common and important infectious and non-infectious diseases of ruminants.

Prerequisite: VMED 300
4 hours a week laboratory
Credit: 4 units

VMED 320. OBSTETRICS

Pregnancy diagnosis, procedures of interventions in cases of dystocia, postpartum diseases, abortions, artificial insemination and related conditions.

Prerequisite: VPHYS 210, VSURG 315
5 hours a week (2 lec, 3 lab)
Credit: 3 units

VMED 325. JURISPRUDENCE, ETHICS, GOVERNMENT LAWS AND REGULATIONS

Laws and regulations governing practice of the veterinary medicine profession and the control of diseases; ethical practices governing veterinarian-client relations as well as relations among veterinary practitioners.

Prerequisite: Consent of Department
2 hours a week lecture
Credit: 2 units

VMED 330. DISEASES OF HORSES

Etiology, epidemiology, diagnosis, treatment, prevention and control of common and important infectious and non-infectious diseases of horses.

Prerequisite: VMED 300
1 hour a week lecture
Credit: 1 unit

VMED 335. WILDLIFE MEDICINE

Etiology, epidemiology, diagnosis, treatment, prevention and control of diseases affecting wildlife.

Prerequisite: VMED 300
2 hours a week lecture
Credit: 3 units

VMED 340. EXOTIC MEDICINE

Etiology, epidemiology, diagnosis, treatment, prevention and control of emerging diseases and diseases not endogenous in the Philippines.

Prerequisite: VMED 300
1 hour a week lecture
Credit: 1 unit

VMED 345. AQUATIC MEDICINE

Etiology, diagnosis, treatment, prevention and control of diseases affecting fishes and other aquatic animals.

Prerequisite: VMED 300
1 hour a week lecture
Credit: 1 unit

VMED 350. VETERINARY INFORMATICS

Application of computer technology in veterinary medicine.

Prerequisite: COMSCI 100, VMED 300
3 hours a week laboratory
Credit: 1 hour

VMED 398. VETERINARY SEMINAR

Recent advances in veterinary medicine.

Prerequisite: Completion of 5th Year Courses
1 hour a week lecture
Credit: 1 unit

VSURG 300. PRINCIPLES OF SURGERY

Fundamentals of restraint, instrumentation, wound and fracture management, surgical techniques and anesthesia.

Prerequisite: VPHAR 200
6 hours a week (2 lec, 3 Lab)
Credit: 3 units

VSURG 305. SURGERY OF LARGE ANIMALS

Discussion and practice of specific surgical techniques in ruminants, swine and horses.

Prerequisite: VSURG 300
7 hours a week (1 lec, 6 Lab)
Credit: 3 units

VSURG 310. SURGERY OF SMALL ANIMALS

Discussion and practice of specific surgical techniques in small domestic animals.

Prerequisite: VSURG 300
7 hours a week (1 lec, 6 Lab)
Credit: 2 units

VSURG 315. VETERINARY IMAGING

Principles, operation, and application of radiology, endoscopy, ultrasonography and other emerging equipment to aid in diagnosis.

Prerequisite: VMED 300
4 hours a week (1 lec, 3 lab)
Credit: 2 units

THESIS I. UNDERGRADUATE THESIS I

Thesis capsule presentation and outline writing

Prerequisite: Completion of 4th Year

Credit: 2 units

THESIS II. UNDERGRADUATE THESIS II

Experimentation and data gathering.

Prerequisite: Thesis I

Credit: 2 units

THESIS III. UNDERGRADUATE THESIS III

Writing of the final manuscript and presentation of research result to the college faculty.

Prerequisite: Thesis II

Credit: 2 unitS