獸醫學系

Department of Veterinary Medicine

一、必修科目Required Courses

162001 獸醫解剖學(一) ２ 必 陳瑞雄

從應用解剖學的觀點探討家畜及家禽各器官的位置、形態、大小、色澤、軟硬度等，使解剖學能和其它學科,如:外科、放射線學、病理學、超音波診斷學等互為應用。

162001 Veterinary Anatomy (A) 2 Ｒ R. S. Chern

The purpose and arrangement of this course is intended to provide the general knowledge of domestic animal structure that is indispensable to the understanding of the other veterinary sciences, such as surgery, radiology ,internal medicine, pathology etc; and to meet the information that is directly applicable to the practice of veterinary medicine.

162002 獸醫解剖學實習(一) 1 必 陳瑞雄

從實際解剖過程中，體會操刀技巧，熟悉各器官，系統間的相關位置，並學會對獻體的尊重。

162002 Veterinary Anatomy Lab. (A) 1 Ｒ R. S. Chern

One of the most important skills to be gained from this course is the ability to translate written descriptions of structures and their relationships into visual images .While the learning to respect to devoted cadaver is especially emphasized as well.

162003 動物飼養管理學 ２ 必 吳錫勳

本課程介紹畜牧生產之基本知識1.緒論-畜牧學之定義、範圍、與家畜之功用。2.家畜鑑別-乳牛、肉牛、豬、羊及家禽鑑別。3.家畜育種-孟德爾遺傳法則，遺傳基因說明、育種之方法、家畜之選擇、人工授精。4.家畜飼養-飼料之功用、平衡日糧、營養需要( 蛋白質、能、礦物質、維他命、水及飼料添加劑 )手飼與自飼之比較，幼畜棚飼，飼料調製等。5.乳牛、肉牛、豬、綿羊及山羊-品種、繁殖與育成、飼養與管理。

162003 Animal Feeding and ２ R H. H. Wu

 Management

This course deals with the fundamental knowledge of animal production. 1.Introduction - The definition of animal Science and Function of animal. 2.Livestock Judging - Judging of dairy cattle ,Beef cattle, Swine,Sheep and Poultry. 3.Animal Breeding-Mendel's Law,Genes, The methods of animal breeding,Selection of animal ,Artificial insernination.4.Animal Feeding-The function of feeds, Balanced ration Nutritive needs (protein,energy,minerals, Vitamins and Water),Hand Feeding ,Self feeding, deep feeding and Feed preparation. 5.Beef Cattle,Dairy Cattle ,Swine, Sheep,Goat-Breeds, Reproduction and Raising ,Feeding and management, etc.

162003 有機化學 ３ 必 張誌益

本課程乃著重於重要之碳化合物（包括烷、醇、醚、有機鹵化物，芳香族化合物、醛、酮、酸、酯、胺）之官能基本反應，各類之合成方法，相互間之關係以及其實際之應用。

162003 Organic Chemistry ３ R C. I. Chang

A systematic study of the important classes of carbon compounds （alkane, alcohol, ether, organic halide, aromatic compound, aldehyde, ketone, carboxylic acid, ester and amine）-reactions of their functional groups, methods of synthesis, relations, and uses.

162004 獸醫解剖學(二) 2 必 陳瑞雄

從應用解剖學的觀點探討家畜及家禽各器官的位置、形態、大小、色澤、軟硬度等，使解剖學能和其它學科,如:外科、放射線學、病理學、超音波診斷學等互為應用。

162004 Veterinary Anatomy (B) 2 Ｒ R. S. Chern

The purpose and arrangement of this course is intended to provide the general knowledge of domestic animal structure that is indispensable to the understanding of the other veterinary sciences, such as surgery, radiology ,internal medicine, pathology etc; and to meet the information that is directly applicable to the practice of veterinary medicine.

162005 獸醫解剖學實習(二) 1 必 陳瑞雄

從實際解剖過程中，體會操刀技巧，熟悉各器官，系統間的相關位置，並學會對獻體的尊重。

162005 Veterinary Anatomy Lab. (B) 1 Ｒ R. S. Chern

One of the most important skills to be gained from this course is the ability to translate written descriptions of structures and their relationships into visual images .While the learning to respect to devoted cadaver is especially emphasized as well.

162006 動物組織學(一) 1 必 張清棟

介紹涉及細胞學、組織學和器官學之家畜顯微解剖學之知識；內容包括動物體之組成、細胞環境、上皮、結締和支持組織、血液和骨髓、肌肉組織和神經組織學等基本組織以及各器官系統之組織構造。

162006 Veterinary Histology (A) 1 Ｒ C. D. Chang

The content of this course includes the component of the animal body ,the cellular environment ,the primary tissues as epithelium ,connective and supportive tissue ,blood and bone marrow ,muscular tissue and nervous tissue, and histology of the organ system

162007 動物組織學實習(一) 1 必 張清棟

介紹家畜之組織標本之製作方法及各種觀察技術，使學生熟悉畜體之各種組織結構；其內容包括組織標本之採取，組織切片之製作，染色技術，各種觀察組織切片之儀器使用方法及畜體各組織之顯微構造之確認。

162007 Veterinary Histology Lab. (A) 1 Ｒ C. D. Chang

The preparation of tissue section of the living organism and interpretation of histological preparation with various kinds of the method of observation will be introduced in this course .The content of this course includes the removal of specimen, processing of tissue section staining procedures and interpretation of histological preparation with various kinds of method of observation.

162008獸醫細菌學 ２ 必 鍾文彬

本課程著重於動物細菌性疾病之介紹。內容包括細菌之形態、功能、分類、鑑別診斷、培養、細菌基因、消毒及滅菌、抗微生物製劑、宿主之防禦機制、預防免疫以及動物重要細菌病原之致病因子、致病機制及預防控制方法。

162008 Veterinary Bacteriology ２ Ｒ W. B. Chung

This course will focus on the nature of bacterial agents of disease in animals. Specific properties of these agents to be studied include bacterial Morphology and function, classification, identification and cultivation，bacterial genetics， sterilization and disinfection, antimicrobial drugs，defense mechanisms of host, bacterial immunoprophylaxis and brief introduction of virulent factors, pathogenesis and control method of important bacterial agents occurred in animals.

162009 獸醫細菌學實習 １ 必 鍾文彬

本課程旨教導學生微生物學之基本操作及觀念，作為未來學習臨床微生物學及其它應用課程之基礎。內容包括革蘭氏染色法、抗酸性染色法、莢膜染色法及芽胞染色法、培養基之製備、無菌操作、細菌接種及純化技術、細菌之生長及定量、消毒劑對細菌生長之影響、生化反應試驗、快速診斷套組之使用及厭氧細菌之培養等。

162009 Veterinary Bacteriology １ Ｒ W. B. Chung

 Lab.

This laboratory course is to introduce basic techniques and concepts on microbiology as a basis for student to study advanced courses such as the clinical microbiology and other applied courses. The contents include Gram’s stain, acid fast stain, capsule stain, spore stain, preparations of medium, aseptic manipulation technique, bacterial inoculation and purification, bacterial growth and quantitation, effect of antimicrobial drugs on bacterial growth, biological tests, diagnostic kits and culture of anaerobic bacteria.

162010 獸醫病毒學 ２ 必 廖明輝

本課程主要講授引起動物疾病的病毒分類、形態、特性、複製方式、鑑定、流行病學、致病性、免疫機制和監控。

162010 Veterinary Virology ２ Ｒ M. H. Liao

This course deals with classification, morphology, characterization, replication model, identification, epidemiologist , control and surveillance of pathogenic virus.

162011 獸醫病毒學實習 １ 必 廖明輝

以實際操作，瞭解病原性病毒之形態、生化鑑定、血清學、免疫學和生物科技實驗技術。

162011 Veterinary Virology Lab. １ Ｒ M. H. Liao

To acquaint the student with the techniques for identification of morphology, biochemistry, serology, immunology and biotechnology of the pathogenic virus.

162012 生物化學(一) ２ 必 莊秀琪

本課程介紹碳水化合物，蛋白質，脂肪，核酸等生物分子的結構，代謝及合成途徑，以及去氧核糖核酸等遺傳物質的結構及基因控制，以作為生理學，藥理學，生物技術課程的基本理論基礎。

162012 Biochemistry (A) ２ Ｒ H. C. Chaung

The objective of this course is to introduce the structure, metabolism and biosynthesis of biomolecules, such as carbohydrates, proteins, lipids and nucleic acids, as well as the genetic molecules,DNA and RNA.

162013 獸醫生理學(一) ２ 必 莊秀琪

動物生理學課程的安排，主要是提供家畜各器官基本功能之知識，使學生學習之後，一方面了解各器官活動之動態性平衡以及各部門協調統一之功能; 另一方面, 可作為學習疾病診斷、藥理等科目之基礎。課程包括神經和肌肉、循環、呼吸、消化、吸收、代謝、腎功能、生長和內分泌。由於生理學進步迅速故內容除基本知識傳授外，也加入新的研究成果。

162013 Veterinary Physiology (A) ２ Ｒ H. C. Chaung

This course is designed to provide a basic knowledge about the function of each organ system of domestic animal. After completing this course, student can understand the dynamic equilibrium and the relationship between each organ system. In addition, on those knowledge base ,student can learn pharmacology & clinical diagnosis more easily. The topics of the course include nerve and muscle, circulation, respiration, digestion, metabolism, kidney faction , growth, reproduction and endocrinology. The entire course not only includes fundamental information but also has provides latest research work reflecting on this fast-growing physiology area.

162015 動物組織學(二) 1 必 張清棟

介紹涉及細胞學、組織學和器官學之家畜顯微解剖學之知識；內容包括動物體之組成、細胞環境、上皮、結締和支持組織、血液和骨髓、肌肉組織和神經組織學等基本組織以及各器官系統之組織構造。

162015 Veterinary Histology (B) 1 Ｒ C. D. Chang

The content of this course includes the component of the animal body ,the cellular environment ,the primary tissues as epithelium ,connective and supportive tissue ,blood and bone marrow ,muscular tissue and nervous tissue, and histology of the organ system

162016 動物組織學實習(二) 1 必 張清棟

介紹家畜之組織標本之製作方法及各種觀察技術，使學生熟悉畜體之各種組織結構；其內容包括組織標本之採取，組織切片之製作，染色技術，各種觀察組織切片之儀器使用方法及畜體各組織之顯微構造之確認。

162016 Veterinary Histology Lab.(B) 1 Ｒ C. D. Chang

The preparation of tissue section of the living organism and interpretation of histological preparation with various kinds of the method of observation will be introduced in this course .The content of this course includes the removal of specimen, processing of tissue section staining procedures and interpretation of histological preparation with various kinds of method of observation.

162017 生物化學(二) 2 必 連一洋

本課程介紹碳水化合物，蛋白質，脂肪，核酸等生物分子的結構，代謝及合成途徑，以及去氧核糖核酸等遺傳物質的結構及基因控制，以作為生理學，藥理學，生物技術課程的基本理論基礎。

162017 Biochemistry (B) 2 Ｒ Y. Y. Lien

The objective of this course is to introduce the structure, metabolism and biosynthesis of biomolecules, such as carbohydrates, proteins, lipids and nucleic acids, as well as the genetic molecules,DNA and RNA.

162020 生物化學實習 １ 必 莊秀琪

本課程內容主要教導學生了解生物化學課程中相關理論之實驗，課程重點包括基本生化實驗之儀器操作與分析原理，實驗內容涵蓋電動天平、酸鹼檢測與分光光度計之操作、醣類定性試驗與定量分析、蛋白質定性與定量、胺基酸之定性、酵素活性測定、脂肪酸萃取、脂肪酸甲基化、核酸萃取與定量、色層分析法之原理與氣相層析儀操作。

162020 Biochemistry Lab. １ Ｒ H. C. Chaung

This course is offered to improve students practical techniques on learning biochemistry principles. The lab techniques in this course will include operation of basic instruments such as electronic balance, pH meter and spectrophotometer, and analytic methods on quantifying carbohydrates, amino acids, proteins, fatty acids and nucleic acids. Purification methodology on chromatography will be also included.

162018 獸醫寄生蟲學 ２ 必 連一洋

本課程的目的在於提供學生對於動物寄生蟲學的基本認識。課程範圍包括動物原蟲、吸蟲、條蟲、線蟲、鉤頭蟲類、節肢動物外寄生蟲等。內容則牽涉到寄生蟲之分類、宿主特異性、形態解剖、發育史、病因學以及控制方法等。課程結束後學生必須獲得的知識如：動物寄生蟲病發生的病因、如何去做蟲體的分類、在感染動物體內外的生活史以及如何控制與預防寄生蟲病的發生等。

162018 Veterinary Parasitology ２ Ｒ Y. Y. Lin

The course aims to provide a general introduction to the biology of parasites in animal. It covers the major parasitic groups, parasitic protozoa, monogeneans, digeneans, cestodes, nematodes, acanthocephalans, and parasitic arthropods, including taxonomy, host specificity, morphology, life cycles, etiological, and treatment. By the end of the course students should have gained knowledge and understanding of the causative organism, an understanding of the major classification different between important parasites, detailed knowledge of the life cycles of a range of parasitic organisms affecting domestic and wild animals, and understanding of the problems encountered by parasites to their hosts and how these may be overcome.

162019 獸醫寄生蟲學實習 １ 必 連一洋

本課程主要教導學生採集各種動物內外寄生蟲之蟲體及蟲卵及其各種檢查方法等。學生必須親自動手操作數次蟲體及蟲卵的採集，以獲取採集及鑑定之經驗。在標本觀察學習方面，教師會將標本玻片置於每一組教學顯微鏡下，學生必須用心觀察然後繪圖於作業紙上，圖旁附註觀察心得。課程結束後學生必須能鑑別與分類主要的寄生蟲型別、了解寄生蟲的生活史及其生物特性等。

162019 Veterinary Parasitology Lab. １ Ｒ Y. Y. Lin

This course mainly emphasizes on the identification of the internal and external parasites and its eggs of the animal. Each student will be asked to have personal conducting of the collection and identification of animal parasite and its egg. In each lab time, the teaching staff will put out numerous slide displays of the parasites which students are required to observe their characteristics using microscope and to make figures with notes on lab notebook. At the end of this subject students will be able to identify all the main groups of parasites and understand their biology and patterns of their life cycles.

162020 獸醫生理學(二) ２ 必 莊秀琪

動物生理學課程的安排，主要是提供家畜各器官基本功能之知識，使學生學習之後，一方面了解各器官活動之動態性平衡以及各部門協調統一之功能; 另一方面, 可作為學習疾病診斷、藥理等科目之基礎。課程包括神經和肌肉、循環、呼吸、消化、吸收、代謝、腎功能、生長和內分泌。由於生理學進步迅速故內容除基本知識傳授外，也加入新的研究成果。

162020 Veterinary Physiology (B) ２ Ｒ H. C. Chaung

This course is designed to provide a basic knowledge about the function of each organ system of domestic animal. After completing this course, student can understand the dynamic equilibrium and the relationship between each organ system. In addition, on those knowledge base ,student can learn pharmacology & clinical diagnosis more easily. The topics of the course include nerve and muscle, circulation, respiration, digestion, metabolism, kidney faction , growth, reproduction and endocrinology. The entire course not only includes fundamental information but also has provides latest research work reflecting on this fast-growing physiology area.

162021 獸醫生理學實習 1 必 莊秀琪

本實習之目的在配合正課進度，使學生得以藉實驗室或現場實地操作之過程和結果，經過討論並撰寫報告，加強對動物生理學課程之了解。課程內容包括細胞之液體環境；細胞之運動；心臟和腎臟功能；消化生理；呼吸生理；肌肉之收縮；神經傳導；內分泌之作用與生殖生理學範圍等之實地操作與研習，以為未來之應用學程奠立良好基礎。

162021 Veterinary Physiology Lab. 1Ｒ H. C. Chaung

Objective of this course is to give students more abilities for learning Animal Physiology by practicing in laboratory and animal farm. Topics include the following subjects: the fluid environment of cell; movements of the cell; factors that affect the cardiac function and kidney function; hematology; physiology of the digestive and respiratory system; contraction of muscle; transmission of the nerve fiber; actions of the endocrine; functions of the gonads; and so on. Aiming to the well established basis of the applied courses advance in the veterinary science, students are required to discuss and to prepare the relative reports.

162022 獸醫病理學(一) ３ 必 張聰洲、邱明堂

病理學為研究疾病的一種科學，尤其著重於因疾病所引起身體結構及功能的改變。本課程分成兩部份，第一部分為病理學總論：主要介紹疾病的一般原則及其對整個身體的影響。第二部分為系統病理學：偏重於各種臟器的疾病。其目的在於對致病機序及病變作詳盡之描述，以奠定學生往後研習臨床課程之基礎。

162022 Veterinary Pathology (A) ３ Ｒ T. C. Chang, M. T. Chiou

Pathology is a science of studying diseases, especially concentrating on the structural and functional changes in tissues & organs of the body caused by diseases. This course is divided into 2 pars. Part 1. General Pathology: describes the general principles of diseases & the disorders the affect the body as a whole. Part 2. Systemic Pathology : concentrates on diseases of individual organs. The objectives have been to describe important mechanism of diseases and morphological changes in considerable detail in order to establish the basic concepts of diseases for further studies of clinical courses.

162023 獸醫病理學實習(一) 1 必 張聰洲、邱明堂

本課程分為病理總論及系統病理學兩部份，前者著重於組織病理切片讀片能力之訓練。後者則以幻燈教學及瞭解剖病變為重點，以建立往後學生獨立診斷疾病之能力。

162023 Veterinary Pathology Lab. (A) 1 Ｒ T. C. Chang, M. T. Chiou

This course is divided into two parts :general pathology and systemic pathology .The purpose of the former is to train the students possessed the ability of observation and interpretation on the histopathological section .The latter is to establish the ability of diagnosis by means of kotachrome slides and specimens collected from Postmortem room.

162024 獸醫藥理學(一) ３ 必 蔡清恩

本課程之內容包括獸醫使用之自主及體幹神經藥物、中樞神經藥物、周圍神經藥物，心血管系統藥物、利尿劑、荷爾蒙消化系統藥物、營養物質、局部用藥、抗生素磺胺劑及驅蟲劑等。其目標為使學生瞭解此些藥物之來源、物化性、構造與活性之關係，藥理作用、作用機序、副作用、毒性、臨床用途、用法及用量等項目，以奠定日後正確用藥與治療之基礎。

162024 Veterinary Pharmacology (A) ３ Ｒ C. E. Tsai

This course contains the of drugs on autonomic nervous system, somatic nervous system, central nervous system, peripheral nervous system, cardiovascular system, diuretic, hormone, digestive system ,nutrition , local application, antibiotic , sulfa drug and anathematic , etc., It is the main purpose of this course that an understanding for students of fundamental principles which involve the origins, properties, structure-activity relationships, pharmacological effects, action mechanisms, side effects, toxicities and intoxications, clinical usages, routes of administration and dosage of each drug. We hope to students that the much amount of these drug in formations will allow the correct clinical uses of such agents.

162025 獸醫免疫學 ２ 必 邱明堂

本課程著重講解基本之免疫學概念與原理及其應用，主要包含免疫反應之生物學理論、免疫對抵抗傳染病之重要性及由免疫現象引起之免疫疾病等三大項目。

162025 Veterinary Immunology ２ Ｒ M. T. Chiou

The course of veterinary immunology provides a concept and comprehensive introduction to immunology and its application, especially focus on the biological basis of the immune system evolution and immune responses, the role of immune response in resistance to different type of pathogens infection, and the disease caused by immunological responses.

162026 獸醫免疫學實習 １ 必 邱明堂

本課程著重於免疫學之應用，包括抗原或抗體的凝集試驗、沉澱試驗、中和試驗、螢光抗體檢測、酵素免疫分析、單株抗體製備等。使學生經由本課程的訓練，對於免疫學之診斷技術有所了解。

162026 Veterinary Immunology Lab. １ Ｒ M. T. Chiou

The course lays special emphasis on the application immunological diagnosis .It includes agglutination tests, precipitation tests, neutralization tests of the antigens or antibodies, fluorescent antibody test, enzyme-linked immunosorbent assay, and preparation of monoclonal antibody etc,. From the training of this course, student may have more confidence in diagnosis and practicing .Immunology for the diagnosis of disease.

162027 獸醫臨床病理學 ３ 必 林昭男、蔡宜倫

本課程訓練學生具備實驗診斷之能力，課程包括紅血球、白血球、止血障礙、造血器官腫瘤、臨床酵素、肝功能、消化系統、肌肉系統、泌尿系統、內分泌系統、體液電解質與酸鹼平衡、以及臨床血液化學、臨床尿液分析學、臨床細胞學等。

162027 Veterinary Clinical Pathology ３ Ｒ C. N. Lin、Y. L. Tsai

This course aquiants the student with capability of conducting a clinical diagnosis through laboratory methods. Red blood cells, white blood cells, coagulatory disorder, neoplasia of hmatopoietic organs, clinical enzymology, liver function, digestive system, muscle system, urinary system, endocrine system, body fluid, electrolyte and acid base imbalance and clinical cytology are included in this course.

162028 獸醫臨床病理學實習 １ 必 林昭男、蔡宜倫

本課程提供學生熟悉完整血液學檢查、血清生化學檢查、尿液學檢查及其他體液或組織之分析技術。包括各種檢驗儀器之正確操作。

162028 Veterinary Clinical Pathology １ Ｒ C. N. Lin、Y. L. Tsai

 Lab.

The course is designed to train the students to be familiar with the techniques of analyses of complete blood count, serum biochemical analysis, urinalysis and other body fluids or tissues. Correct operation of laboratory instruments and sample analysis procedure are included also.

162029 獸醫病理學(二) 3 必 張聰洲

病理學為研究疾病的一種科學，尤其著重於因疾病所引起身體結構及功能的改變。本課程分成兩部份，第一部分為病理學總論：主要介紹疾病的一般原則及其對整個身體的影響。第二部分為系統病理學：偏重於各種臟器的疾病。其目的在於對致病機序及病變作詳盡之描述，以奠定學生往後研習臨床課程之基礎。

162029 Veterinary Pathology (B) 3 Ｒ T. C. Chang

Pathology is a science of studying diseases, especially concentrating on the structural and functional changes in tissues & organs of the body caused by diseases. This course is divided into 2 pars. Part 1. General Pathology: describes the general principles of diseases & the disorders the affect the body as a whole. Part 2. Systemic Pathology : concentrates on diseases of individual organs. The objectives have been to describe important mechanism of diseases and morphological changes in considerable detail in order to establish the basic concepts of diseases for further studies of clinical courses.

162030 獸醫病理學實習(二) 1 必 張聰洲

本課程分為病理總論及系統病理學兩部份，前者著重於組織病理切片讀片能力之訓練。後者則以幻燈教學及瞭解剖病變為重點，以建立往後學生獨立診斷疾病之能力。

162030 Veterinary Pathology Lab. (B) 1 Ｒ T. C. Chang

This course is divided into two parts :general pathology and systemic pathology .The purpose of the former is to train the students possessed the ability of observation and interpretation on the histopathological section .The latter is to establish the ability of diagnosis by means of kotachrome slides and specimens collected from Postmortem room.

162031 獸醫藥理學(二) 3 必 蔡清恩

本課程之內容包括獸醫使用之自主及體幹神經藥物、中樞神經藥物、周圍神經藥物，心血管系統藥物、利尿劑、荷爾蒙消化系統藥物、營養物質、局部用藥、抗生素磺胺劑及驅蟲劑等。其目標為使學生瞭解此些藥物之來源、物化性、構造與活性之關係，藥理作用、作用機序、副作用、毒性、臨床用途、用法及用量等項目，以奠定日後正確用藥與治療之基礎。

162031 Veterinary Pharmacology (B) 3 Ｒ C. E. Tsai

This course contains the of drugs on autonomic nervous system, somatic nervous system, central nervous system, peripheral nervous system, cardiovascular system, diuretic, hormone, digestive system ,nutrition , local application, antibiotic , sulfa drug and anathematic , etc., It is the main purpose of this course that an understanding for students of fundamental principles which involve the origins, properties, structure-activity relationships, pharmacological effects, action mechanisms, side effects, toxicities and intoxications, clinical usages, routes of administration and dosage of each drug. We hope to students that the much amount of these drug in formations will allow the correct clinical uses of such agents.

162032 獸醫藥理學實習 １ 必 蔡清恩

本課程之內容包括調劑與製劑(配合禁忌、消毒防腐劑、糖漿及軟膏)、溶液濃度及計算、各種注射方法練習、治療指數之求法、全身麻醉法(吸入型及靜注型)自主神經藥物作用之觀察(包括交感及副交感神經)、中樞興奮劑作用之觀察、催吐劑、止吐劑及局部麻醉劑作用之觀察等、其目標是使學生瞭解各種藥物之劑型、調劑之方法、給藥方法、劑量之換算、藥物之安全性及各種藥物藥理作用之觀察, 期使理論與實際相配合, 以奠定日後臨床上正確給藥之基礎。

162032 Veterinary Pharmacology Lab. １Ｒ C. E. Tsai

In this course some experiments are included which involve pharmacy (incompatibility, antiseptic, syrup and ointment),route of administration, therapeutic index, general anesthesia(inhalation and I.V. inj.),autonomic nerve, central nerve ,central nerve stimulants, emetics, ant emetics and local anesthesia. In order to match both the theories and the practices ,it is necessary for students to know the dosage form, prescription , preparation, administration, posology , drug safety and pharmacological effects.

162033 獸醫麻醉學 １ 必 林昭男

本課目主要構授有關一般動物之麻醉原理、各種麻醉方法之操作時機、麻醉劑量以及麻醉過度之急救方法,以期能應用於臨床診療。其內容包括麻醉前期之投藥、全身麻醉法：靜脈注射法與吸入型麻醉法、麻醉藥物與技術、麻醉設備、麻醉場所之安全顧慮、麻醉意外與緊急處理、特殊之麻醉技術。

162033 Veterinary Anesthesiology １ Ｒ C. N. Lin

The object of this course is to introduce Anesthetic principal, the use of anesthetic drug and machine, anesthetic dose and emergence treatment in overdose. The content includes the medication of preanesthetic period, general anesthesia: intravenous anesthesia and inhalation anesthesia, agent and techniques, anesthetic equipment, workplace safety, anesthetic problems and emergencies, and special techniques.

162034獸醫麻醉學實習 １ 必 林昭男

本課目主要讓學生實際麻醉動物，操作麻醉機，並瞭解各種鎮靜劑與麻醉劑之特性。其內容包括Combelen, Diaxepam, Xylazine, Ketamine, Thiamylal, Pentobarbital, Propofol等藥物之藥性觀察；氣管內插管，麻醉動物監測設備之介紹，以及阻斷麻醉之操作。

162034Veterinary Anesthesiology Lab １ Ｒ C. N. Lin

The object of this course is to introduce Anesthetic principal, the use of anesthetic drug and machine, anesthetic dose and emergence treatment in overdose.

162035獸醫臨床診斷學 １ 必 江強華

本課程目的在提供學生如何對病畜進行病歷詢間，一般檢查( 如目診、觸診、聽診、叩診 ) 和特殊檢查 ( 如心電圖、超音波診斷、診斷穿刺 ) 等臨床診斷知識和技術，此外有效之治療與控制方法也被介紹。

162035Veterinary Clinical Diagnosis １ Ｒ C. H. Chiang

The purpose of this course is to provide the students with knowledge and practical techniques for clinical diagnosis of the diseased animal. Effective treatment and control measures are also introduced. The contents of this course include how to process the history taking, and to perform the clinical examination with the general ( inspection , palpation, percussion, auscultation, etc ) and special methods ( electrocardiography, ultrasound diagnosis, diagnostic exploratory puncture, etc )

162036獸醫臨床診斷實習 １ 必 江強華

本實習課程在強調與獸醫內科學臨床診斷與治療方法有關之技術訓練與實際操作，其目標在提供學生對動物內科疾病之臨床診斷技術之基礎訓練，其內容包括動物之保定、臨床檢查程序和器官系統之特殊檢查。

162036Veterinary Clinical Diagnosis １ Ｒ C. H. Chiang

 Lab.

This laboratory course emphasizes on the technical training and practical operation about the clinically diagnostic and therapeutic methods of veterinary internal medicine. The goal of the course is to provide a basic training of clinical diagnostic techniques in animal internal diseases. The contents of the course include restraint and handling of animals, procedure for clinical examination and special examinations of organs and systems.

162037獸醫外科學 2 必 簡基憲

本課程旨在學習軟組織外科病的診療原理和處理原則, 並熟悉各種手術方法的理論與技巧。其內容包括術前考量，麻醉，感染控制，傷口之癒合，外科病畜之營養供給，繃帶術與物理治療，呼吸、心血管、消化道、肝膽、尿殖與內分泌等系統之外科病和耳朵與脾臟疾病之介紹。

162037Veterinary Surgery 2 Ｒ C. H. Chien

The goal of this course is to provide students with a relevant, concise, and easy-to-understand general principles and treatments in veterinary surgery. Important perioperative considerations (e.g., anesthesia, nutrition, wound healing, infection, bandages, and physical therapy) are introduced first, followed by surgical treatments of common soft tissue surgery.

162038豬病學 ４ 必 鐘文彬、邱明堂

本課程主要講授豬的各種疾病的病因、病徵、傳染途徑、發病經過、各地區發病情形、臨床診斷、實驗室鑑定、預防、治療等、本課程之講授將以參考課本為主、幻燈片、圖片介紹為副。

162038Swine Diseases ４Ｒ W. B. Chung, M. T. Choiu

This course mainly emphasizes the etiology, syndromes, transmission, course, epidemiological , clinical diagnosis, laboratory diagnosis ,prevention , and treatment of all kinds of swine diseases. Textbook will be used as the main information resource. Some slides and pictures will be shown to the student too.

162039水生動物疾病學 ３ 必 陳石柱

本課程講解比較魚類及其他動物之主要生理解剖構造之不同，以了解魚病發生之過程,介紹各種魚病之病因、診斷、疫學預防及控制。又附帶講解與公共衛生有關之魚類疾病。

162039Aquatic Animal Diseases ３ Ｒ S. C. Chen

This course emphasizes major differences in fish and animal structure and physiological features for understanding of fish disease development, Etiology, diagnosis, epizootiology , prevention and control of disease in fish, including those important to the public health.

162040g獸醫影像診斷學 ２ 必 林莉萱

本課程乃著重於討論放射線攝影技術,包括放射線攝影機及其附件之正確使用方法,正確患畜攝影姿勢,各種器官之放射線造影術及放射線影片之顯影與定影技術之研討。

162040Veterinary Diagnostic Imaging ２ Ｒ L. S. Lin

This course discusses the technology of radiography. The course lays special emphasis on the discussion about the manipulation of the X-Ray machine and their accessory equipments, radiographic positioning ,various radiographic contrast procedure and film procession.

162041獸醫影像診斷學實習 １ 必 林莉萱

本課程乃著重於放射線機器之實際操作,瞭解不同器官如何選擇適當之KVP與MAS, 才能攝取到最佳品質之放射影像。研習心臟血管、呼吸、消化及生殖泌尿等系統之放射線造影技術, 最後練習放射線影片之沖洗方法。

162041Veterinary Diagnostic Imaging １ Ｒ L. S. Lin

 Lab.

This course teaches students a practical manipulation of X-ray machine. In order to taking a good qualitative radiographs in various organs, selection of appropriate KVP and MAS is necessary to practice. Radiographic contrast procedures in cardiovascular, respiratory, digestive and urgently system will also be studied in this course. Finally, students should be know how to complete the film procession

162042獸醫產科及繁殖障礙學 ３ 必 劉世賢

針對臺灣的畜牧環境，使學生了解家畜的生殖生理(包括荷爾蒙的分泌及其影響生殖情形，懷孕時母畜的生理變化，以及如何診斷妊娠)，進而講授臺灣目前常發生的家畜產科及繁殖障礙疾病，如何加以診斷，治療及預防。

162042Veterinary Obstetrics and ３ Ｒ S. S. Liu

 Reproductive Disorders

This course focuses on husbandry environment of Taiwan in this class ,the student will understand the domestic animal's reproductive physiology .It contains the secretion of hormones and their influence on the reproductive cycle(also including the changes in the pregnant animals and the diagnosis of the pregnancy).Furthermore ,the student will be able to know the reproductive disease of the animal and how to diagnosis ,treatment and prevention of the reproductive disease.

162043實務專題(1) 1 必 全系教師

本課安排一系列演講，部分邀請校外專家，其餘則由學生擔當。每位學生均須選一與獸醫學有關之題目，進行文獻蒐集和閱讀、資料整理、摘要撰寫及口頭發表。評分由本系教師共同評定。

162043Special Projects(1) 1 Ｒ All Faculties

Serial lectures are arranged in this course. Some lectures are given by the experts invited from outside the university, and the others are given by the students. Students are required to select a topic related to veterinary medicine. Each student must review the literatures related to their research and submit a summary for presentation. Their presentations are evaluated by the faculty members.

162051小動物外科學 1 必 簡基憲

本課程將偏重於軟組織疾病之外科治療，在每個外科病中將複習相關之解剖構造，手術時之考慮事項，必須以外科治療之疾病，手術步驟，與術後照顧和併發症。

162051Small Animal Surgery 1 Ｒ C. H. Chien

In this course, we are going to emphasis on the surgical treatments of common soft tissue disorders. At each surgery, we will review the applied anatomy, perioperative considerations, diseases treated by surgery, operative procedures , and postoperative care, including complications.

162052小動物外科學實習 1 必 簡基憲

本課程將偏重於軟組織疾病之外科治療，在每個外科病中將複習相關之解剖構造，手術時之考慮事項，必須以外科治療之疾病，手術步驟，與術後照顧和併發症。

162052Small Animal Lab. 1 Ｒ C. H. Chien

In this course, we provide the opportunity for the student has more exposure to the operations on the living dog. When the student anesthetize the dog, he or she may learn how to control the depth of anesthesia. The student may get acquaintance with the basic operative skills during the surgery. The surgical operations include the demonstration and practice of approach to the femur, ventral midline-paracostal combined approach, urinary cystotomy, ovariohysterectomy/castration, gastrotomy, enterotomy, and intestinal anastomosis.

162054獸醫流行病學 ２ 必 廖明輝

講授公共衛生外並強調獸醫對公共衛生之職責。瞭解低動物傳播及保有人類疾病病原之危險性, 以及獸醫執業病之危害。本課程亦介紹乳、肉品衛生與檢驗及管制 。

162054Veterinary Epidemiology ２ Ｒ M. H. Liao

Veterinary epidemiologist may be defined as the study of the patters of disease that exist under field conditions. More specifically, veterinary epidemiology is the study of the frequency, distributions and determinants of health and disease in populatims. The major purpose of veterinary to provide date on which a rational deism for the privation and control of disease in animal populations can be based.

162046禽病學 4 必 連一洋

首先簡介禽類之解剖，生理及生化學繼而介紹各種不同之禽病。每一種病講授之項目包括病因、疫學、致病機序、症狀、肉眼及組織病變、診斷、治療及預防措施。本課程配合幻燈片之講解，以增加課程之活潑性及學生之印象。

162046Poultry Diseases 4 Ｒ Y. Y. Lien

The course is a practical guide to all veterinary student to establish the basic concepts of avian medicine including infectious and noninfectious disease .The students are introduced to diseases by an outline of the bird's anatomy ,physiology & biochemistry .And then ,each disease is dealt with certain items :etiology ,pathogenesis & epizootiology ,signs ,gross & microscopic lesion, diagnosis ,treatment ,& preventions kodachrome slides are used to increase the activity of the lecture & to enhance the impressions of the students.

162047反芻動物疾病學 ４ 必 劉世賢

本課程在介紹各種重要牛隻疾病，包括傳染性和非傳染性疾病之病因、疫學、致病機序、臨床症狀、主要病理學變化、鑑別、診斷、治療和預防。主要內容包括乳房炎、代謝性疾病、消化道和呼吸系和肌肉骨骼系疾病、以及病毒性、細菌性、披衣體性、寄生蟲性和營養缺乏性疾病。

162047Diseases of Ruminants ４ Ｒ S. S. Liu

The etiology, epizootiology, pathogenesis, clinical signs, main pathological changes, differentiation, diagnosis, treatment and prevention of the important bovine diseases including infectious and noninfectious will be introduced in this course. The main contents include mastitis, metabolic diseases, diseases of the alimentary tract, respiratory system and musculoskeletal system, diseases caused by virus, bacteria, chlamydia, parasites and nutritional deficiencies.

162048獸醫公共衛生學 ３ 必 連一洋

講授公共衛生外並強調獸醫對公共衛生之職責。瞭解低等動物傳播及保有人類疾病病原之危險性以及獸醫執業時之各種職業病之危害。本課程亦介紹乳、肉品衛生與檢驗及管制。

162048Veterinary Public Health ３ Ｒ Y. Y. Lien

The course is an introduction to public health and to the responsibilities of the veterinarian. Students have to understand the roles of lower animals in the causation and perpetuation of human disease and consideration of occupational health hazards associated with the practice of veterinary medicine. Principles and practice of inspection and sanitary control of meat and milk are also included in this course.

162049小動物內科學 ４ 必 江強華

本課程乃提供學生對小動物疾病之致病機序,診斷方法(包括病史,身體檢查及實驗室檢察判讀)及治療與防治方法。課程內容主要有心臟血管、呼吸、消化、泌尿生殖、神經肌肉內分泌及皮膚等系統之有關疾病。

162049Diseases of Small Animals ４ Ｒ C. H. Chiang

This course teaches the student more clear account of medical problems in small animal diseases. The course lays special emphasis on discussion about the pathogenesis, diagnosis( history, physical and laboratory examination ),treatment and prophylaxis of diseases. The format of the course includes :cardiovascular , aspiratory , gastrointestinal, urgently , neuromuscular, endocrine and coetaneous system.

162050實務專題(2) １ 必 全系教師

本課程之目的在訓練學生如何設計、蒐集和報告與獸醫學或基礎醫學有關之研究主題，以增進學生組織和表達之能力。此外，一些與獸醫學或基礎醫學有關之專家被邀請就其研究專長進行專題演講。

162050 Special Projects (2) １ Ｒ All Faculties

The purpose of this course is to train the students how to design, collect and report their study topics involving veterinary or basic medicine. The ability of organization and presentation will be enhanced. Besides, the experts in veterinary and basic medicine will be invited to present seminars of the special topics.

162044大動物外科學 1 必 劉世賢

本課程將偏重於軟組織疾病之外科治療，在每個外科病中將複習相關之解剖構造，手術時之考慮事項，必須以外科治療之疾病，手術步驟，與術後照顧和併發症。

162044Large Animal Surgery 1 Ｒ S. S. Liu

In this course, we are going to emphasis on the surgical treatments of common soft tissue disorders. At each surgery, we will review the applied anatomy, perioperative considerations, diseases treated by surgery, operative procedures , and postoperative care, including complications.

162045大動物外科學實習 1 必 劉世賢

本課程提供學生進行活體麻醉與手術之機會；在麻醉操作過程中，可使學生習得如何控制麻醉深度；在手術操作中，使學生熟練外科之基本技術。其手術內容包括：去角術，去勢術，赫尼亞手術，腹腔探查手術，瘤胃切開術，第四胃固定術與剖腹產手術等手術方式之示範或實際操作。

162045Large Animal Operative 1 Ｒ S. S. Liu

 Surgery

In this course, we provide the opportunity for the student has more exposure to the operations on the living dog. When the student anesthetize the dog, he or she may learn how to control the depth of anesthesia. The student may get acquaintance with the basic operative skills during the surgery. The surgical operations include the demonstration or practice of Dehorning, Castration, Herniorrhaphy, Laparotomy and exploration, Rumenotomy, Abomasopexy, and Cesarean section.

162053獸醫法規與倫理 １ 必 鄭純彬

本課程主要講授中華民國獸醫師法，家畜傳染病防治條例，動物用藥管理法及其他有關畜牧獸醫之法規及條例，以供日後從事獸醫工作之遵循依據，並說明各項獸醫法規制定之緣由。

162053Veterinary Jurisprudence and １ Ｒ T. B. Cheng

 Ethic

The course teaches the Veterinarian's law of republic of China, the Controlling Rules of the Domestic Animal Infectious Diseases. the Management Law of the Animal Pharmaceutical Products and some other animal husbandry & veterinary medical laws and rules ,as the reference for their doing the veterinary works in the future. Meanwhile some explanation concerning the reason of the regulation made were also given for the student.

162069診療實習(1) 9 必 全系教師

該課程乃著重於廣泛討論各種病例，包括免疫性、致病機序、診斷方法治療法、及疾病的控制。以最新有關文獻發表之新技術或知識輔助，以印證研討重點。研討內容以台灣最常發生之疾病為優先，包括病毒性細菌性、寄生蟲性及一般性疾病等。使學生對疾病的鑑定及控制更具信心。

162069Clinical Practic (1) 9 Ｒ All Faculties

This course lays special emphasis on the pan discussion about different case reports of animal disease. The discussion will be in regard to its epidemiological, pathogen city, diagnosis, effective treatment, immunity and control program. The new publications of veterinary medicine are required for this seminar to help student to confirm their viewpoint. The topics being put in priority are those diseases which are now prevalent in Taiwan such as Hog Cholera, Pseudorabies, TGE, Colibacillosis, Brucellosis, Tuberculosis, Toxoplasmosis, and so on. It will give the student more confidence in their ability for the disease control.

162069校外實習 2 必 全系教師

該課程乃著重於廣泛討論各種病例，包括免疫性、致病機序、診斷方法治療法、及疾病的控制。以最新有關文獻發表之新技術或知識輔助，以印證研討重點。研討內容以台灣最常發生之疾病為優先，包括病毒性細菌性、寄生蟲性及一般性疾病等。使學生對疾病的鑑定及控制更具信心。

162069Clinical Practic 2 Ｒ All Faculties

This course lays special emphasis on the pan discussion about different case reports of animal disease. The discussion will be in regard to its epidemiological, pathogen city, diagnosis, effective treatment, immunity and control program. The new publications of veterinary medicine are required for this seminar to help student to confirm their viewpoint. The topics being put in priority are those diseases which are now prevalent in Taiwan such as Hog Cholera, Pseudorabies, TGE, Colibacillosis, Brucellosis, Tuberculosis, Toxoplasmosis, and so on. It will give the student more confidence in their ability for the disease control.

162069診療實習(2) 6 必 全系教師

該課程乃著重於廣泛討論各種病例，包括免疫性、致病機序、診斷方法治療法、及疾病的控制。以最新有關文獻發表之新技術或知識輔助，以印證研討重點。研討內容以台灣最常發生之疾病為優先，包括病毒性細菌性、寄生蟲性及一般性疾病等。使學生對疾病的鑑定及控制更具信心。

162069Clinical Practic (2) 6 Ｒ All Faculties

This course lays special emphasis on the pan discussion about different case reports of animal disease. The discussion will be in regard to its epidemiological, pathogen city, diagnosis, effective treatment, immunity and control program. The new publications of veterinary medicine are required for this seminar to help student to confirm their viewpoint. The topics being put in priority are those diseases which are now prevalent in Taiwan such as Hog Cholera, Pseudorabies, TGE, Colibacillosis, Brucellosis, Tuberculosis, Toxoplasmosis, and so on. It will give the student more confidence in their ability for the disease control.

二、選修科目Required Courses

162066普通微生物學 ２ 選 廖明輝

本課程主要講授引起動物疾病之細菌, 病毒, 黴菌,黴漿菌, 披衣菌等微生物之形態, 分類, 生理, 培養, 鑑定, 消毒, 滅菌, 致病性, 控制和免疫機制。

162066General Microbiology ２ E M. H. Liao

This course deals with Morphology, physiology classification, cultivation, identification, disinfections, sterilization, pathogen city, control and immunization of pathogenic bacteria, viruses, fungi, mycoplasma and chlamydia to animals.

162104動物福祉 2選 蔡清恩

本課程之目的在使學生能深刻瞭解動物福利，以為從事畜牧生產之基礎。課程內容包括：動物福利定義、緊迫對動物的影響、動物福利和產業之關係、各種家畜禽動物之福利。

162104Animal Welfare 2E C. E. Tsai

 The arrangement of this course is to let the students understand the knowledge about animal welfare. The following topics included in the course: definition of animal welfare, the influence of stress on farm animals, animal welfare, animal welfare and industry, and specific topic of animal welfare on different farm animals.

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| --- | --- | --- | --- | --- |
| **162405獸醫學概論** |  | **2選** |  | **劉世賢** |
| 本課程目的在使學生瞭解獸醫學之概念。其中包括有基礎獸醫學、副獸醫學、預防獸醫學及臨床獸醫學概論等，期能使學生瞭解對疾病之發生、處理及預防方法之基本概念。 |
| **162405Introduction to Veterinary Medicine** |  | **2E** |  | **S. S. Liu** |
| The purpose of this course is to enable students to understand the concept of veterinary science. Including Introduction about basic, subclinical, preventive and clinical veterinary medicine, enable students to understand the basic concepts of the diseases occurrence, methods of medical treatment and disease prevention. |

162069胚胎學 ２ 選 待聘

讓學生了解一般胚胎發生及生長過程。特別強調遺傳因子之功能，及胚胎發生過程基因與細胞質之相互作用。該課程將以邏輯式，有順序的敘述之，尤其是受精卵發育期，種植期及分化期課程之內容包括：1.胚胎科學2.配殖期3.受精與胚胎之開始4.原腸胚5.器官形成6.分化與生長7.形體發育期。

162069Embryology ２ E

This field students in the class understand the general outline of a comprehensive theory of embryogentic development. The mast emphasizing focus to be put on are the deciphering of the genetic code and an increased understanding of the interaction of the genes and cytoplasm in development. This course will be brought into a more logical and streamlined form on the sections of Oogensesis . Placentation and differentiation. The contents given in this couse are 1.she science of embryology 2.gametogenesis 3.fertilization and the embryogenesis 4.gastrulation 5.organogenesis 6. differentiation and growth 7.morphogenesis.

162091生物電子顯微鏡技術 １ 選 陳瑞雄

介紹電子顯微鏡標本的前處理法、超薄切片法、染色法、電子顯微鏡操作法、暗房技術等，並配合實際操作，使學理和實務得以互為印證。

162091 Bio. Electronmicroscope Techniques １E R. S. Chern

The content of this course includes the specimen preparation, ultramicrotomy, specimen staining, preparing the electron microscope for use, darkroom techniques. It was emphasized on mainstream methods in the hope that the forest will be seen and the trees ignored, at least for the time being.

162092 生物電子顯微鏡技術實習 １ 選 陳瑞雄

本課程係配合正課之講授內容, 依一般生物標本的製作步驟, 循序實地操作或見習, 使理論與實務能兩相印證, 俾奠定電子顯微鏡學的技術基礎。

162092 Bio. Electronmicroscope Techniques １E R. S. Chern

 Lab.

The most important skills to be gained from this course is the ability to translate theoretical aspects into practice concerns and to direct the student toward an appropriate reference sources.

162111保育醫學概論 2選 裴家騏

隨著環境的快速變遷，生態系統健康、動物健康（包括野生和家養）及人類健康間之相連性逐漸受到重視。保育醫學遂成為一門新興的學域。這是一門跨學科的科學，涵蓋獸醫學、公眾健康、生態、自然資源，以及應用保育生物學生物、地理學、種群遺傳學、經濟學、社會學、人類學等其學科的重要原則，以期理解並維護整個地球的生物多樣性。本課程將提供來自不同背景的學生有機會去瞭解和探索保育生物學和醫學間的接軌及其重要原則，並藉由認識臺灣生態系和動物相的過程中，將藉由認識臺灣的生態系和動物相，將所學的學理概念和研究發現與真實世界的保育問題連結，以期尋找消弭危機之策略。

**162111 Introductory Conservation 2E C. C. Pei**

**Medicine**

Conservation Medicine shares a similar philosophy to the EcoHealth. One Health and Global Health concepts, but is also closely allied with the values of conservation biology and the management of endangered populations. It is an emerging discipline that studies the complex relationships and interactions between animal health, human health and ecosystem health. This is a multidisciplinary field and requires integration of knowledge of various fields such as veterinary and human medicine, ecology, biology, epidemiology, public, health and social and political science. Students are expected to enhance knowledge and understand conservation medicine from global perspective, understand disease of wild animals and its conservation aspect, able to assess, assimilate and apply scientific evidence to solve conservation medicine challenges.

162070細胞生物學 ２ 選 鍾曜吉

本程將介紹細胞及其胞器之構造及功能、物質進出細胞之機序、細胞間的交父互作用、細胞生長之cycle及cancer發生之機序、訊息傳遞之途徑及作用、基因之表達及調控.

162070Cell Biology ２ E Y. C. Chung

The course is designed to provide knowledge regarding the cell structure and function, including the structure and function of cells, the mechanism of molecular transportation across membranes, cell cycle and the mechanism of cancer, the pathway and function of signal transduction, and genetic expression and regulation and the interaction between cells.

162068獸醫黴菌病及黴漿菌病 ２ 選 待聘

講授從臨床上分離引起動物疾病之病原性微菌之形態，培養特性、分類、鑑定、致病機序、診斷、消毒、滅菌控制和免疫機制。

162086 Veterinary Mycosis and ２ E

 Mycoplasmosis

The objective of this course is to introduce the cause, pathogenesis, signs, gross and histological lesions as well as the prevention, therapy and eradication program of the diseases caused by variety of fungus and mycoplasmas in different animals in order to intensify the clinical experience of the veterinarian.

162083 生物技術實習 ２ 選 廖明輝

操作細菌培養、基因重組及基因與蛋白質之相關技術

162083 Biotechnology Lab. ２ E M. H. Liao

Introduction of techniques related to bacteria culture, gene recombination and protein.

162067實驗動物導論 ２ 選 蔡清恩

本課程介紹實驗動物應用於生物醫學及農學上,作為各科研究、治療、測試及檢驗的模式系統。本課目包括有實驗動物飼養管理、實驗動物醫學、實驗動物繁殖及遺傳 ,以及實驗技術應用於實驗動物,實驗動物述及包括小鼠、倉鼠、天竺鼠、家兔、猿猴、家畜及兩棲類等動物,以助於瞭解在生物醫學、藥學及農學等研發上所扮演的角色。

162067Laboratory Animals ２ E C. N. Tsai

This course is designed to introduce the application of laboratory animals in biomedical and agricultural research and drug testing. This course briefly describes laboratory animal husbandry and management, laboratory animal genetics and breeding, and zoometrics. The labor- troy animals incused mouse, rat, hamster, guinea pig, rabbit, non-human primate and reptile are introduced, The efforts will make students understands the laboratory animals in the research setting and private practice as well.

162071動物組織培養技術 ２ 選 邱明堂

介紹動物組織細胞之培養方法以及組織培養於生物技術之應用

162071Techniques of Animal Tissue ２ E M. T. Choiu

 Culture

Study of techniques for animal cell culture and its application in biotechnology industry

162072動物組織培養技術實習 1 選 邱明堂

操作及介紹動物組織細胞之培養技術

162072 Techniques of Animal Tissue 1 E M. T. Choiu

 Culture Lab.

Introduction of techniques for animal cell culture .

162078分子檢測技術 2 選 吳弘毅、廖明輝

介紹重要病原微生物基因及蛋白質之檢測技術

162078 Techniques of Molecular ２ E H. Y. Wu, M. H. Liao

 diagnosis

Introduction of diagnostic techniques for detection of gene and protein of pathogen microorganism.

162079 分子檢測技術實習 1 選 吳弘毅、廖明輝

操作及介紹微生物基因及蛋白質之偵測技術

162079 Techniques of Molecular 1 E H. Y. Wu, M. H. Liao

 **Diagnosis Lab.**

Introduction of diagnostic techniques for the detection of gene and protein of microorganism.

162083 生物技術實習 1 選 廖明輝

操作細菌培養、基因重組及基因與蛋白質之相關技術

162083 Biotechnology Lab. 1 E M. H. Liao

Introduction of techniques related to bacteria culture, gene recombination and protein.

162073分子生物學 ３ 選 莊秀琪

分子生物學介紹基因、核酸物質、基因複製的過程,並介紹各種定性、定量技術及基因工程之理論基礎,以符合目前生物技術發展的趨勢,作為生物技術的基礎。

162073 Molecular Biology ３ E H. C. Chaung

This course is to introduce the basic theories about DNA.RNA.DNA replication、transcription and translation also ,the techniques about DNA sequencing and genetic engineering will be introduced in this course. In order to learn more biotechniques , molecular biochemistry is the important basic course to all students who study in life science.

162075 家畜生殖生理學 ２ 選 劉世賢

本課程目地在探討家畜生殖方面之正常生理變化，以及由環境、基因、疾病及緊迫等因素所造成之異常生理變化，使學生對於家畜生殖之疾病有更深入的瞭解，並為人工授精技術和產科及繁殖障礙等學科之基礎。

162075 Animal Theriogenology ２ E S. S. Liu,

Being the basis of the artificial insemination technique, and veterinary obstetrics and genital diseases, the objective of this course is to give the students more confidence in their abilities for nursing the domestic animals during their reproductive period, or for preventing ,diagnosing and curing the reproductive diseases of them. Dealing with the modem concepts of the reproductive physiology, it comprises the following subjects: the normal reproductive functions and their mechanism of the farm animals; and the reproductive failure caused by environmental conditions, abnormal genetics, stress or various diseases; and so on.

162090 小動物心臟病學 ２ 選 江強華

在本課程中將提供學生有關在小動物心臟疾病方面之診斷及治療方法的基本觀念。課程內容包括：1.心臟疾病的成因；2.心臟衰竭的定義；3. 心臟疾病的臨床症狀；4.心臟疾病的診斷；5.基礎心臟超音波學；6.基礎心電圖學；7.心導管術的原理及應用；8.腎素-血管收縮素-醛固酮系統；9.心臟疾病的治療原則；10.先天性心臟疾病；11.後天性心臟疾病；12.心肌病等十二個單元。

162090 Basic Small Animal Cardiology ２E C. H. Chiang

In this course, we provide the veterinary college student with basic information on the diagnosis and therapy of the cardiac disease in the small animal. The lessons include: 1. The causes of cardiac diseases, 2. The definition of heart failure, 3. Clinical signs of cardiac diseases, 4. Examination of cardiac diseases, 5. Basic echocardiography, 6. Basic electrocardiography, 7. Cardiac catheterization, 8. Renin-angiotensin-aldosterone system, 9. The principles of therapy, 10. Congenital heart diseases, 11. Acquired heart diseases, 12. Myocardial disease.

162123 人畜共通傳染病 2 選 連一洋

根據世衛組織對人畜共通傳染病的定義為「在人與脊椎動物間自然傳染的所有疾病」，因此本課程的內容將專注於人與動物共同的健康問題。學生修習本課程時將可充分了解疾病的病史、人與動物發生的情形、傳染的機序、自然宿主與媒介、如何診斷與預防，以及有何替代方法可以降低對人類健康的威脅與衝擊性等知識。

162123 **Zoonoses** ２ E Y. Y. Lien

Based on the definition provided by WHO, zoonoses are diseases the agents of which are transmitted between vertebrate animals and people. Therefore, the objective of this course is to focus the infectious diseases of importance to both human and animal health. Each student will be required to have a thorough understanding of the disease history, occurrence in man and animals, mode of transmission, natural reservoir and vector, diagnosis, prevention and control, and alternative approaches that can be used to minimize their impact on human health.

162086小動物心電圖學 ２ 選 江強華

本課程介紹心電圖之原理及病態心電圖之變化,其內容包括心電圖判讀原則, 心律不整及疾病與治療時對心電圖之影響( 包括血清電離子不平衡, 心肌缺氧及某些藥物) 。

162086 Veterinary Electrocardiography ２E C. H. Chiang

The objective of this course is to discuss the principles of electrocardiocardiography and electrocardiography changes in various diseases. The format of the course includes the interpretation of electrocardiogram, the arrhythmias ,the effects of disease & therapy on the electrocardiogram (includes electrolyte disturbance, Myocardial hypoxia & selected drugs).

162098 中獸醫學 ２ 選 蔡清恩、劉世賢

本課程主要講述有關中國古老醫學應用於獸醫診療,內容包括中醫基本理論、辨証診論理論、中醫藥種類、方劑及藥性等,使學生除一般西醫學應用之外,加上中醫藥的觀念,在末來診療工作中能有中西醫互補之應用。

162098 Chinese Veterinary Medicine ２ E C. E. Tsai, S. S. Liu

The objective of this course is to introduce the traditional Chinese medicine which cam be used in veterinary medicine. The contents are emphasized on the basic theories of Chinese medicine, diagnostic methods of Chinese medicine, traditional medicinal herbs, properties and usage of their preparations. To make the students to know how to treat animal disease with the concepts of Chinese medicine in addition to those of the western medicine.

162100 動物醫院之經營管理 １ 選 簡基憲

本課程在提供獸醫系學生有關動物醫院之最新發展、設備、服務項目、營業登記、成本會計、相關法規、經營及管理等之資訊，讓學生瞭解如何有效地規劃和運作動物醫院。

162100 Veterinary Hospital １ E C. H. Chien

 Management

In this course, we provide the veterinary student with information on the recent development, equipment, services, registration, accounting, laws, business and management of veterinary hospital, to let student how effectively to design and operate the business of veterinary hospital.

162109 臨床微生物診斷技術 2 選 廖明輝

講授從臨床上分離引起動物疾病之細菌、病毒、黴菌等病原微生物之形態, 培養特性, 分類, 鑑定, 致病機序,診斷, 消毒, 滅菌, 控制和免疫機制。

162109 Veterinary Clinical Microbiology 2E M. H. Liao

The course deals with morphology, culture characterization, classification, identification, pathogenesis, diagnosis, disinfect ion , sterilization, control and immunization of pathogenic bacteria, viruses and fungi to animals from clinical isolated .

**觀償魚蝦健康管理與疾病**   **2  選                陳石柱**

本課程講解比較觀償魚、蝦及其他動物之主要生理解剖構造之不同與健康管理，以了解魚病發生之過程,介紹各種魚病之病因、診斷、疫學預防及控制。又附帶講解與公共衛生有關之魚蝦類疾病。

**Disease and health management in ornamental fish and shrimp 2    E  S.C. Chen**

This course emphasizes on major differences in ornamental fish and shrimp and animal structure and physiological features for understanding of ornamental fish and shrimp health management and disease development, etiology, diagnosis, epizootiology, prevention and control of disease in fish, including those important to the public health.

162076獸醫臨床血液學 １ 選 林昭男

本課程訓練學生對動物血球數目,形態及造血組織之檢驗技術以及臨床應用知識。本課程強調臨床應用技術，包括血球凝集試驗、血液交叉配合試驗、庫姆氏試驗、紅般性狼瘡細胞檢查等重要自體免疫疾病與血液凝固相關試驗之檢查應用。

162076 Clinical Hematology １ E C. N. Lin

In this course ,the students are trained to have accurate techniques in analyses of blood cells and hematopoietic tissues of animals and to be good at interpretation of the results of these analyses for clinical application. Important procedure for autoimmune diseases (red cell agglutination test, blood cross match, Coom’s test, LE cells analysis……etc.) and coagulation profile (platelet counts, fibrinogen, thrombin time, coagulation time, fibrinogen split products……etc.) are included.

162077 獸醫臨床血液學實習 １ 選 林昭男

訓練學生熟悉動物造血組織細胞及各種血球型態辨認及數目計算之技術以供臨床應用。本課程強調臨床樣本之分析判讀技術，包括重要自體免疫疾病、血球相容性、血液腫瘤與止血功能障礙之檢查技術。

162077 Clinical Hematology Lab. １ E C. N. Lin

The course is designed to train the students to have accurate techniques and experience in identifying cells of hematopoietic tissues and cells in the peripheral blood for clinical application. This course will emphasize in special tests and stain procedures for autoimmune disease, blood compatibility, neoplasia of haematopoietic organs and coagulation.

162084 獸醫中毒學 ２ 選 蔡清恩

提供學生有關家畜對有毒植物，化學藥品、殺蟲、殺鼠藥、寄生蟲藥及飼料添加劑等中毒知識。內容包括毒物作用原理及其引起之病理變化及臨床症狀，尤其著重在臨床診斷及治療，毒物之檢定方法也包括在本課程內。

162084 Veterinary Toxicology ２ E C. E. Tsai

The purpose of this course is to provide the student some knowledges of toxicities of poisonous plants, chemicals, insecticides, rodenticides , anthelmintics and feed additives in domestic animals. The content of the lecture covers mode of action of toxicants and their associated pathological changes. The clinical signs of the affected animals ,clinical diagnosis and treatment are particularly emphasized here. Methods of identification of certain toxicants are also included in this course.

162085 小動物內視鏡學 ２ 選 江強華

本課程的目的在於提供對於設備的選擇，保養和用法的意見， 並且展示如何保定動物和正確地放置及插入內視鏡，以及說明重要的解剖學特徵和臨床的所見，並且描述潛在的陷阱和如何避免它們。

162085 Veterinary Endoscopy ２ E C. H. Chiang

The objective of this course is to provide advises on choice of equipment, maintenance and methods of use, and to show how to handle animals and the correct placement and insertion of the endoscope, illustrate important anatomical features and clinical findings, and describe potential pitfalls and how to avoid them.

162097 小動物眼科學 ２ 選 江強華

本課程將著重在眼睛結構之介紹，疾病之診斷及治療。課程內容將涵蓋如后：眼睛解剖構造、生理及生化學之情形；眼睛病毒性、細菌性及其它重要疾病之介紹；眼疾之診斷及其治療。

162097 Small Animal Ophthalmology ２ E C. H. Chiang

This curriculum will focus on the introduction of ocular anatomy and diagnosis and therapy of ocular diseases. The following items will be emphasized in this course, including ocular anatomy, ocular physiology and biochemistry, introduction of viral, bacterial and other important ocular diseases, and diagnosis and therapy of ocular diseases.

162099輸液療法 ２ 選 林昭男

本課程提供高年級學生瞭解正常與生病動物體內液體及電解質之動力學。課程內容包括水份缺乏或過多、酸鹼不平衡，電解質不平衡、營養補充及輸液之方法與技術。

162099 Fluid Therapy ２ E C. N. Lin

The course is prepared for senior students to understand fluid and electrolytes dynamic in both heath and diseased animals. The course includes water deficit excess, acid-base disturbance, electrolytes unbalance, nutritional support, and methodological and technical aspects of fluid therapy.

162107實驗動物保健 2選 蔡清恩

 本課程之內容包括實驗動物保健學總論、實驗動物之環境與飼養管理、設施與衛生、實驗動物取得、實驗動物技術、實驗動物使用與管理、實驗設計、品質管制等項目，使學生了解實驗動物的使用與管理概念，從飼養環境到實驗結束之過程管理，奠定對使用實驗動物的珍惜，培養尊重動物生命，保護動物之原則，增進動物與人類之福祉。

162107 Health of laboratory animals 2 E C. E. Tsai

 This course is designed to introduce the health of laboratory animals. This course briefly describes the environment for laboratory animal management, establishment and hygiene, obtain for laboratory animals, care and operate technique for use, experiment design, quality control, The efforts will make students understands the use and management concept of laboratory animals. They may learn the whole process management from begin to end for experiment so that cultivate to respect the lives of animals and protect them, promote the good walfare for human and animal.

162108實驗動物保健實習 1選 蔡清恩

本課程之內容包括實驗動物飼養管理、實驗動物飼養設施、實驗動物疾病監控、實驗動物的使用、實驗動物技術、實驗動物模式、實驗動物危機處理等實習等項目，從實際操作中學習基本實驗動物使用與管理技術，以奠定依據尊重動物生命與保護動物之原則，培養利用動物進行科學應用之基礎。

162108 Health of laboratory animals 1E C. E. Tsai

 Practice

This course is designed to learn practical training of laboratory animals include rear management, rear establishment, disease monitoring, the use of laboratory animals, experiment technique, animal model designed, dealing with the crisis and so on. May learn the basic knowledges and managerial skills from actuality operation. For settle the priciple of respect the lives of animals and protect them, so as to cultivate a foundation of scientific application for utilization of laboratory animals.

162080 野生動物疾病學 ３ 選 吳永惠、張聰洲

本課程在介紹各種重要野生動物疾病，包括傳染性和非傳染性疾病之病因、疫學、致病機序、臨床症狀、主要病理學變化、鑑別、診斷、治療和預防。主要內容包括哺乳類、鳥類、兩棲類和爬蟲類之疾病。

162080 Diseases of Wild Animal ３ E Y. H. Wu, T. C. Chang

The etiology, epizootiology, pathogenesis, clinical signs, main pathological changes, differentiation, diagnosis, treatment and prevention of the important wildlife diseases including infectious and noninfectious will be introduced in this course. The main contents include diseases of mammals, birds, amphibians and reptiles.

162081獸醫診斷病理學 １ 選 張聰洲

本課程乃提供學生於家畜,禽,野生動物及水生動物疾病之形態學診斷要領尤其著重於討論各類疾病之型態學變化(肉眼及組織病理學)及其致病機轉。課程內容包括:豬,禽,大動物(牛,羊,馬)野生動物及水生動物等疾病。

162081 Veterinary Diagnostic Pathology １ E T. C. Chang

The object of this course is to give the student more clear account of diagnostic pathology in animal diseases. The course lays special emphasis on discuss in about the morphological lesions (gross & histopathology ) and pathogenesis of Animal diseases .The format of the course includes pig, poultry, large animal (cattle, goat, horse),wild animal & fish diseases.

162082 獸醫診斷病理學實習 １ 選 張聰洲

本課程係以各種動物疾病之病例以實體病材、幻燈片及病理切片為教材,指導學生辨認各種疾病型態學病變之特徵,加強學生疾病診斷之能力。

162082 Veterinary Diagnostic Pathology １ E T. C. Chang

 Lab.

The object of this course is to give the student more ability of diagnosis in animal diseases. The course lays special emphasis on micro slide , gross picture Ektachrome about the morphological lesions of animal diseases. The format of the course includes pig, poultry , large animal (cattle, goat, horse), wild animal & fish diseases.

162101 獸醫行政學 ２ 選 全系老師

本課程在使學生瞭解獸醫行政機關有關之官方業務、最新問題和解決之道。其主要內容包括國內和輸出入動物及其產品之檢疫與防疫、屠宰衛生檢查和動物藥品之督導與管理、以及動物傳染病之監視與控制。

162101 Veterinary Administration ２ E All teachers

This course is designed to help the student understanding the official businesses, current problems and solving policies of veterinary administration. The main contents of the course include health inspection and quarantine of the local and import-export animals and their products, supervision and management of slaughtering hygiene inspection and animal drugs, monitor and control of animal infectious diseases.

162094獸醫製劑學 ２ 選 蔡清恩

本課程內容介紹原料藥經加工調劑，製成一定劑型及劑量後之分類，各類劑型性質、製法、規定、用途、儲存及法定製劑等基本知識。

162094 **Pharmaceutics** ２ E C. E. Tsai

This objective of this course is to introduce the concepts of making process in medicine from original materials to dosage form in the pharmaceutics and its knowledge of properties, manufacture methods, regulations, its use, storage and legal preparations in all kinds of medicine.

162110小動物神經疾病學 2 選 簡基憲

 小動物神經疾病學特論是以獸醫解剖學為基礎，從小動物神經解剖學、神經生理學、神經疾病學切入，結合影像醫學診斷小動物神經疾病，定位病灶並以神經內科、神經外科、針灸醫學及中獸藥治療小動物的神經疾病。

**162110 Small Animal ２E C. H. Chien**

 **Neurological Disease**

 The minimum requirement of the advanced small animal neurological disease are the anatomy of small animals, through small animal neuroanatomy and neurophysiology, combined medical radiology such as computerized tomography, radiology to localized the lesion. Treat small animal neurological disease medical management, neurosurgery, acupuncture and traditional Chinese herbal medicine.

162105鴿病學 2選 蔡信雄

本課程不僅介紹較重要的鴿病，包括病毒性、細菌性、黴菌性、寄生蟲性、及營養性疾病，而且以最經濟及最有效的方法來維護鴿群的健康。

 第一部分介紹鴿子的正常解剖及生理，與有關傳染病及非傳染性疾病的知識。第二部分教授學生如何給鴿子做健康檢查及如何研判檢查的結果。更進而提出一個合理的治療策略。第三部分介紹藥物及保健品的一般特性。此外，教導學生有關鴿舍消毒及鴿群管理的基本觀念，以維護鴿子的免疫及健康狀態。

162105Pigeon Diseases 2E S. S. Tsai

This course not only strives to present the most important pigeon diseases, including viral, bacterial, fungal, parasitic and nutritional diseases, but also tries to assist in protecting the health of the flock in the most economical and successful way. The first section of the course deals with the normal anatomy and physiology of pigeon, and the associated knowledge of infectious and non-infectious diseases. The second section describes how to perform a health examination on pigeon and how to interpret the results. And then, offers a reasonable therapeutic strategy. The third section deals with the general characteristics of medicine and supplements as well as of the care hygiene and flock management in order to maintain the level of the pigeon’s immune and health states.

162106鴿病學實習 1選 蔡信雄

本課程不僅介紹較重要的鴿病，包括病毒性、細菌性、黴菌性、寄生蟲性、及營養性疾病，而且以最經濟及最有效的方法來維護鴿群的健康。

 第一部分介紹鴿子的正常解剖及生理，與有關傳染病及非傳染性疾病的知識。第二部分教授學生如何給鴿子做健康檢查及如何研判檢查的結果。更進而提出一個合理的治療策略。第三部分介紹藥物及保健品的一般特性。此外，教導學生有關鴿舍消毒及鴿群管理的基本觀念，以維護鴿子的免疫及健康狀態。

162106Pigeon Diseases Practice 1E S. S. Tsai

This course not only strives to present the most important pigeon diseases, including viral, bacterial, fungal, parasitic and nutritional diseases, but also tries to assist in protecting the health of the flock in the most economical and successful way. The first section of the course deals with the normal anatomy and physiology of pigeon, and the associated knowledge of infectious and non-infectious diseases. The second section describes how to perform a health examination on pigeon and how to interpret the results. And then, offers a reasonable therapeutic strategy. The third section deals with the general characteristics of medicine and supplements as well as of the care hygiene and flock management in order to maintain the level of the pigeon’s immune and health states.

162097 小動物皮膚病學 ２ 選 張清棟

本課程主要講授皮膚構造和功能、皮膚病診斷方法、皮膚病治療、細菌性皮膚病、黴菌性皮膚病、寄生蟲性皮膚病、病毒性皮膚病、立克次體皮膚病、原蟲性皮膚病、免疫媒介性皮膚病、過敏性皮膚病、內分泌性皮膚病、代謝性皮膚病、先天性遺傳性皮膚病、色素異常、角化缺陷、心理性皮膚病和營養性皮膚病。本課程強調小動物皮膚病之診斷、肉眼病理變化、皮膚組織病理變化、臨床治療及預防。

162097 Small Animal Dermatology ２ E C. D. Chang

The purpose of this course is to study the structure and function of the skin, diagnostic methods, dermatologic therapy, bacterial skin diseases, fungal skin diseases, parasitic skin diseases, viral skin diseases, rickettsial skin diseases, protozoal skin diseases, immune-mediated skin diseases, allergic skin diseases, endocrine skin diseases, metabolic skin diseases, congenital and hereditary defects, pigmentary abnormalities, keratinization defects, psychogenic skin diseases, and nutritional skin diseases. This course emphasizes diagnosis, gross pathologic changes, dermatopathologic changes, treatment, prevention of skin diseases in small animals.

162112 馬病學 2 選 待聘

本課程著重於常見馬病中，最新、最精簡之診斷與治療介紹。其內容包括動脈疾病、喉囊疾病、喉頭疾病、肺病、消化道檢查、附屬診斷工具、齒科疾病、胃病、大結腸疾病、肝病、馬尾部疾病、眼睛之檢查與治療原則、眼瞼之疾病、肌肉疾病、蹄病、遠側指骨之疾病、結節或腫瘤性疾病以及造血系統疾病。

162112 Equine Diseases ２ E

In this course, we provide the veterinary student with a concise recent information on the diagnosis and therapy of common medical problems of the horse. The content includes diseases of arteries, the guttural pouch, larynx, lung, teeth, stomach, large colon, liver, cauda equina, eyes, muscle, hoof, and erythrocytes. Ancillary diagnostic aids, principles of therapies, and disease of characterized by nodules or tumors are also mentioned.

162087 觀賞鳥類疾病學 ２ 選 蔡信雄

臨床獸醫師在執業中常會遇到觀賞鳥類病例,特別是鴿子及鸚鵡類疾病。本課程主要目地的是提供觀賞鳥類病例為主要的教材。

162087 Diseases of Pet Birds ２ E S. S. Tsai

Most veterinarians in practice will be asked to treat pet birds, especially the pigeons and psittacoses. The purpose of this course is to provide the basic information required to diagnose and treat the common disease conditions of pet birds. Both color slides and clinical cases are the main teaching materials.

162088觀賞鳥類疾病學實習 1 選 蔡信雄

162088 Diseases of Pet Birds Lab. 1 E S. S. Tsai

162093獸醫臨床病理學病例判讀 ２ 選 林昭男

訓練學生熟悉對罹病動物進行實驗室診斷之要領以及診斷數據之臨床應用。包括範例病例以及臨床病例之資料研判與應用。

162093 Veterinary Clinical Pathology ２ E C. N. Lin

 **case Interpretaion**

The course is to train the students to be familiar with practical laboratory medicine applying in diseased animals and With interpretation of results of laboratory medicine. History, physical changes and laboratory reports of case examples in text books and clinical cases will be used for clinical interpretation.

162089應用解剖學 ２ 選 陳瑞雄

本課程係以大體解剖學為基礎，嘗試連結外科學、屍體解剖學、產科學等學門，俾能引領修讀學生更容易深度了解諸多臨床問題背後所代表的型態學意義。

162089 Applied veterinary anatomy ２ E R. S. Chern

The purpose of the course is to develope the ability to reason from a fundamentals of anatomy basis in the solution of clinical problems and to give actual practice in the recognition of the anatomical features that form the ground work of surgical, obstetrical, and post-mortem procedures.

162095 獸醫臨床影像診斷學 ２ 選 吳永惠、江強華

本課程在提供學生獸醫超音波診斷學之知識與實際技術,其內容包括超音波診斷之原理和掃描技術以及超音波指引穿刺技術,其大綱有胸部、腹部、心臟、肝臟、腎臟、子宮、膀胱、前立腺、腫瘤等之超音波掃描診斷以及妊娠診斷。

162095 Diagnostic Techniques of ２ E Y. H. Wu,

 Ultrasound C. H. Chiang

The purpose of this course is to provide the students with knowledge and practical techniques of veterinary ultrasound diagnosis. The contents include the principles and diagnostic techniques of ultrasonography, and sono-guiding biopsy. The topics include ultrasonography of the thorax, abdomen, heart, liver, kidney, uterus, urinary bladder, prostate, tumors and gestation diagnosis .

162096獸醫臨床影像診斷學實習 １ 選 江強華

本課程係配合「獸醫超音波診斷學」而開, 藉以提供學生學習正常和異常病例之超音波掃描和判讀之知識和技術。其內容包括超音波機之操作、超音波指引穿刺術、一般腹部和腹部器官和泌尿道和生殖系統和眼之超音波掃描、以及心超音波掃描術。

162096 Diagnostic Techniques of １ E C. H. Chiang

 Ultrasound Lab.

This course is synchronized with "the veterinary ultrasound diagnosis" to provide students some practical experiences in the technique and knowledge of ultrasonography and diagnosis of the images, including normal and abnormal cases. The contents of the course include operation of machine, ultrasound-guided biopsy, ultrasonographies of the general abdomen, abdominal organs, urinary tract, genital system and eyes, and echocardiograpay.

162103 醫療器材創新設計 ２ 選 吳弘毅

著重「從醫療需求到產品概念」之醫療器材研發過程之學習與實作。與臨床醫師討論及治療為主，深入探討醫療行為中所遭遇到的問題，進而提出解決方案，並設計出創新之醫療器材。在醫療環境中發掘臨床問題，找出臨床需求，並養成解決問題的能力。

1620103****Medical device innovation-Biodesign**** ２E H. Y. Wu

This course is focues on " From Medical Devices needs to product concept",  and challenges in development, manufacturing and clinical trials processes. Such medical problems beg for innovative solutions, and to design innovative medical devices.In medical learning process, the student can be explore clinical problems, identify clinical needs, and develop problem-solving skills.

162102 獸醫臨床藥理學 ２ 選 蔡清恩

本課程介紹獸醫藥理學在動物疾病治療上的應用，依動物種別與系統性的用藥分類，使學生瞭解藥理學與臨床治療用藥的關係，其藥理作用、作用機序、副作用、毒性、臨床用途、用法及用量等項目，以強化正確用藥與疾病治療之基礎。

162102 ****Clinical Veterinary** **２ E C. E. Tsai****

 ****Pharmacology****

This course is to introduce the clinical use of the veterinary pharmacology in animal diseases base on the each kinds of animal and physiological systemic medicine use. It is the main purpose of this course that an understanding for students of veterinary pharmacology and clinical therapy which involve pharmacological effects, action mechanisms, side effects, toxicities and intoxications, clinical usages, routes of administration and dosage of each drug.

162107 貓病學 ２ 選 張清棟

貓病學主要以臨床方式探討由病原性，非病原性所引起疾病，和一般性內外科疾病探討及臨床治療方法。本課程細分為： (1)貓病基礎臨床總論.(2)病毒性及立克次體性疾病及臨床治療方法.(3)細菌性疾病及臨床治療方法.(4)黴菌性疾病及臨床治療方法.(5)寄生虫性疾病及臨床治療方法.(6)營養性疾病及臨床治療方法.(7)中毒性疾病及臨床治療方法.(8)行為異常.(9)臨床腫瘤學.(10)免疫系統及血液系統疾病及臨床治療方法.(11)心肺血管系統疾病及臨床治療方法.(12)消化系統疾病及臨床治療方法.(13)內分泌系統疾病及臨床治療方法.(14)神經肌肉系統疾病及臨床治療方法.(15)骨骼系統疾病及臨床治療方法.(16)泌尿系統疾病及臨床治療方法 .(17)生殖系統疾病及臨床治療方法.(18)皮膚系統疾病及臨床治療方法.(19)耳及眼疾病及臨床治療方法.

162107 Diseases of Cat ２ E C. D. Chang

Diseases of Cat mainly discuss etiology, clinical signs, clinical diagnoses, and clinical treatments of the infectious, non-infectious, surgical and internal diseases of cat. It is divided into：(1)Clinical introduction of the cat diseases. (2)Viral and richettsial diseases and clinical treatments. (3) Bacterial diseases and clinical treatments. (4) Fungal diseases and clinical treatments. (5)Parasitic diseases and clinical treatments. (6)Nutritional diseases and clinical treatments. (7)Intoxication, injury and clinical treatments. (8)Disorders of behavior. (9)Clinical oncology. (10)Diseases of immune and hematopoietic systems and clinical treatments. (11)Diseases of cardiopulmonary systems and clinical treatments. (12)Diseases of digestive system and clinical treatments. (13)Diseases of endocrine system and clinical treatments. (14)Diseases of neuromuscular systems and clinical treatments. (15) Diseases of skeletal system and clinical treatments. (16)Diseases of urinary system and clinical treatments. (17)Diseases of reproductive system and clinical treatments. (18)Diseases of integument system and clinical treatments. (19)Diseases of ear and eye and clinical treatments.

162120 小動物臨床細胞學 ２ 選 張清棟

本課程主要以小動物臨床細胞學知識，檢查和探討皮膚系統、呼吸系統、眼睛、耳朵、骨髓、周邊血液、淋巴結、脾、關節液、肌肉骨骼系統、腦脊髓液、腹水、胸水、內分泌系統、泌尿生殖系統、和尿沉渣等樣品，以診斷各種樣品之變化及疾病。

162120 Clinical Cytology of Small ２ E C. D. Chang

 Animals

The purpose of this course is to study the samples of skin, respiratory system, eye, ear, bone marrow, peripheral blood, lymph node, spleen, sensorial fluid, musculoskeletal system, cerebrospinal fluid, abdominal fluid, thoracic fluid, endocrine system, urgently system, and urinary sediment for diagnoses of clinical diseases based on the Clinical Cytology of Small Animals.

**醫療器材創新設計 2 選 吳弘毅、下**

著重「從醫療需求到產品概念」之醫療器材研發過程之學習與實作。與臨床醫師討論及治療為主，深入探討醫療行為中所遭遇到的問題，進而提出解決方案，並設計出創新之醫療器材。在醫療環境中發掘臨床問題，找出臨床需求，並養成解決問題的能力。

**Medical device innovation-Biodesign 2 E H.Y. Wu S**

This course is focused on " From Medical Devices needs to product concept",  and challenges in development, manufacturing and clinical trials processes. Such medical problems beg for innovative solutions, and to design innovative medical devices.In medical learning process, the student can be explore clinical problems, identify clinical needs, and develop problem-solving skills.