

## 103 學年度第 2 學期校課程委員會議

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## 各系(所)新增課程中英文摘要

### 一、農學院

#### (一) 水產養殖系：

#### 水產養殖與水耕整合系統 2 選

本課程之教學目標在於使修習者理解水產養殖(Aquaculture)與水耕(Hydroponics)整合系統(Aquaponics, 養耕系統)之原理、兩子系統之營養鹽平衡控制、營養鹽轉換處理及系統之規劃設計建造，以增加對永續性水產養殖相關研究及水產養殖生產所必備之知識。

#### Aquaponic System 2 E

The purposes of this course are to let students understand the principles of aquaponics system in which aquaculture system is integrated with hydroponic system. In addition, the control of nutrient balance between these two sub-systems and the conversion of nutrients with various types will be introduced. And the planning, designing and construction of aquaponics systems will be discussed. These are all to afford students the essential knowledge for the research and production of sustainable aquaculture.

#### 藻類產業應用專論 2 選 李孟洲

水產飼料佔水產養殖成本之 50-60%，飼料工廠所生產之飼料好壞，除飼料原料品質外，關鍵在於飼料配方設計是否精確。本課程將從三個階段訓練學生能夠著手設計水產飼料配方，第一，蒐集對各種經濟魚(蝦)種之營養需求資訊；第二，了解各種可利用之飼料原料之組成與原物料特性；第三，針對經濟水產養殖魚(蝦)種所需，應用電腦軟體設計各種飼料配方，並由營養供應，加工製程以及成本估算等不同角度，訓練學生修正飼料配方。

#### Advanced Topics on Industrial Applications in Algae 2 E M.C. Lee

The past few years, commercial production of algae have brought the development of a dynamic community of startups and as well as a staggering rise in private and public investment. Experts inside and outside the algae industry believe large-scale, truly commercial production of algae-based biofuels is just over the horizon. This course will introduce the latest development: via selecting the latest literatures on algae biotechnology, the course makes the students acquaintance with the latest development the purpose and techniques related the field and familiar with the contexts of the important literature, which will leads the students obtains the comprehensive ideas on genetic engineering and molecular breeding.

#### 淡水藻類專論 2 選 李孟洲

本課程提供深入的淡水藻類介紹，並增加對重要藻種的說明，強調藻類與環境生態的連結，以及藻類可作為水質管理的指標特性。本課程結合實用的材料與技術，配合水質管理知識，加上基本藻類分類學，深入探討藻類作為水域生物指標的應用方法。本課程分為兩部分，第一部分介紹取樣技術，測量和觀察藻類，然後探討藻類作為生物指標和水質管理的參考知識。第二部分提供了重要的藻種分類與識別。

**Advanced Topic on Freshwater Algae**                      2                      E                      M.C. Lee

This course provides a comprehensive guide to temperate freshwater algae, with additional information on key species in relation to environmental characteristics and implications for aquatic management. The course combines practical material on techniques and water quality management with basic algal taxonomy and the role of algae as bioindicators. The course is divided into two parts. Part I describes techniques for the sampling, measuring and observation of algae and then looks at the role of algae as bioindicators and the implications for aquatic management. Part II provides the identification of major genera and important species.

**(二) 動物科學與畜產系：****農業財務概論**    3                      選                      潘璟靜                      下

本課程為建立本系學生之農企業財務相關基礎及概念，主要為了解帳務處理、財務報表分析與財務規劃。帳務處理包括會計基本概念、借貸法則與會計記錄、調整與編表。財務報表分析包括財務比率、財務比率分析與應用。財務規劃則涵蓋貨幣時間價值、淨現值、資本預算分析與營運資金管理。

**Introduction of Agricultural Finance**                      3                      E                      G. G. Pan                      S

This course is to establish the basis and concept of agricultural finance, including accounting for business transactions, analysis of financial statements, and financial planning. Accounting for business transactions includes fundamental concepts of accounting, the rules of debit and credit, recording transactions, the adjusting process, and preparing the financial statements. Analysis of financial statements includes financial ratios, ratios analysis and applications. Finally, financial planning includes time value of money, net present values, capital budgeting, and working capital management.

**農業財務綜論**    2                      選                      潘璟靜                      下

本課程為培養本系研究生對農企業財務相關議題之知識與財務時事之分析能力，包括帳務處理、財務報表分析與財務規劃。帳務處理包括會計基本概念、借貸法則與會計記錄、調整與編表。財務報表分析包括財務比率、財務比率分析與應用。財務規劃則涵蓋貨幣時間價值、淨現值、資本預算分析與營運資金管理。

**Agricultural Finance**    2                      E                      G. G. Pan                      S

This course is to increase the knowledge of agricultural finance and the ability to analyze the finance news in agricultural industry. There are 3 content areas in this course, including accounting for business transactions, analysis of financial

statements, and financial planning. Accounting for business transactions includes fundamental concepts of accounting, the rules of debit and credit, recording transactions, the adjusting process, and preparing the financial statements. Analysis of financial statements includes financial ratios, ratios analysis and applications. Finally, financial planning includes time value of money, net present values, capital budgeting, and working capital management.

傳閱附件 1-2--本校各學院所屬各系(所)課程中英文摘要-工學院

**二、工學院****(一) 環境工程與科學系：****高級氧化程序** **3 選** **黃國林 上**

本課程旨在介紹高級氧化程基本反應原理以及其在降解環境有機污染之應用。授課內容包括水中氧化還原動力學、Fenton 法、光催化氧化法、臭氧氧化法、超聲波/微波氧化法、超臨界水氧化法及電化學氧化法。

**Advanced Oxidation Processes** **3 E** **K.L.Huang F**

This course is designed to introduce the basic reaction principles of advanced oxidation processes (AOPs) and the application of AOPs for the degradation of environmental organic pollutants. The contents of this course consist of redox kinetics in aqueous solution, Fenton oxidation, photo-catalytic oxidation, ozone oxidation, ultrasound/microwave oxidation, supercritical water oxidation, and electrochemical oxidation.

**環境化學動態學** **3 選** **黃國林 上**

本課程旨在介紹污染物環境系統中的傳輸及平衡現象。授課內容包括污染物傳輸概論、環境介面平衡、污染物傳輸法則、空氣與水相之間的物質交換、水與土壤之間的物質交換、空氣與土壤之間的物質交換及環境數學模式概論。

**Chemodynamics** **3 E** **K.L.Huang F**

This course is designed to introduce the transport and balance phenomenon of contaminants in environmental media (air, water, and soil). the contents of this course consist of introduction to contaminant transport, equilibrium at environmental interfaces, transport fundamentals, air-water interface transfers, water-soil interface transfers, soil-air interface transfers, mathematical modeling the transport of contaminant in the environment, and mathematical models/solutions.

**(二) 車輛工程系：****實驗設計法(1)** **1 選** **蔡建雄 上**

本課程之主要教學內容為田口的實驗設計法，一種安排實驗和分析實驗數據的數理統計方法；試驗設計主要對試驗進行合理安排，期使學生以較小的試驗規模(試驗次數)、較短的試驗周期和較低的試驗成本，獲得理想的試驗結果以及結論。

**Design of Experiment(1)** **1 E** **C. H. Tsai F**

Main content of this course is Design of Experimental method especially focused on the TAGUCHI method. This course will teach student how to arrange the test efficiently and interpret the interaction between factors. Therefore, students utilize smaller tests, shorter testing cycles and lower testing costs to achieve the desired results.

**實驗設計法(2)** **1 選** **陳立文 上**

本課程之主要教學內容為田口的實驗設計法，一種安排實驗和分析實驗數據的數理統計方法；試驗設計主要對試驗進行合理安排，期使學生以較小的試驗規模(試驗次數)、較短的試驗周期和較低的試驗成本，獲得理想的試驗結果以及結論。

**Design of Experiment(2) 1 E L. W. Chen F**

Main content of this course is Design of Experimental method especially focused on the TAGUCHI method. This course will teach student how to arrange the test efficiently and interpret the interaction between factors. Therefore, students utilize smaller tests, shorter testing cycles and lower testing costs to achieve the desired results.

**實驗設計法(3) 1 選 胡惠文 上**

本課程之主要教學內容為田口的實驗設計法，一種安排實驗和分析實驗數據的數理統計方法；試驗設計主要對試驗進行合理安排，期使學生以較小的試驗規模(試驗次數)、較短的試驗周期和較低的試驗成本，獲得理想的試驗結果以及結論。

**Design of Experiment(3) 1 E H. W. Hu F**

Main content of this course is Design of Experimental method especially focused on the TAGUCHI method. This course will teach student how to arrange the test efficiently and interpret the interaction between factors. Therefore, students utilize smaller tests, shorter testing cycles and lower testing costs to achieve the desired results.

**實驗設計法(4) 1 選 梁智創 下**

本課程之主要教學內容為田口的實驗設計法，一種安排實驗和分析實驗數據的數理統計方法；試驗設計主要對試驗進行合理安排，期使學生以較小的試驗規模(試驗次數)、較短的試驗周期和較低的試驗成本，獲得理想的試驗結果以及結論。

**Design of Experiment(4) 1 S J.C. Leong S**

Main content of this course is Design of Experimental method especially focused on the TAGUCHI method. This course will teach student how to arrange the test efficiently and interpret the interaction between factors. Therefore, students utilize smaller tests, shorter testing cycles and lower testing costs to achieve the desired results.

**車輛電子製程技術 3 選 李佳言 上**

本車輛電子製程技術為教導學生對車輛電子使用之半導體製程的基本原理認識，以及深入瞭解相關電子材料與設備、半導體製作與半導體及電子產業之運作，運用業界所普遍使用的電子及半導體材料與設備介紹，使學生瞭解設備工程師在電子製造業界可扮演的角色與任務。授課內容包括積體電路生產簡介、半導體基礎、晶圓製造、加熱製程、微影製程、電漿原理、離子佈植、蝕刻、化學氣相沈積及金屬化製程。

**Vehicle Electronics Manufacturing Technology 3 E Chia-Yen Lee F**

The aim of “Vehicle Electronics Manufacturing Technology” is to acquaint the students with the basic principles of semiconductor manufacturing. The course also introduces the students to the semiconductor materials and equipments, the semiconductor manufacturing and the semiconductor business. Utilizing the knowledge of commercial semiconductor materials and equipments, the students can understand their roles in the semiconductor fields. The contents include

Introduction to IC Fabrication, Semiconductor Basics, Wafer Manufacturing, Thermal Processes, Photolithography, Plasma Basics, Ion Implantation, Etch, CVD and Dielectric Thin Film and Metallization.

### 工廠實習(1) 3 選 待聘 上

本課程內容包含工廠使規則及安全規定說明，加工零組件之組合成成品，及兩大類別之實習項目：(1)鋸削及砂輪機，車床，鑽床及銑床，磨床和數控工具機之操作。(2)砂模鑄造，精密鑄造，銲接，熱處理，板金加工和鉗工。

### Machine Shop Practice(1) 3 E F

The content of this course include the description of the usage rules and safety requirements, to assembly the fabricated components to be a product, and two group items : (1)The operations of band machining and hard polishing, engine lathe, drilling and milling machines grinders, and numerical control machine tools. (2)Sand casting, precision casting, welding, heat treatment, sheet forming, and bench work

### 產業實習 9 選 合授 上

本課程將提供給車輛系學生到校外車輛、機械、光電等相關產業公司廠商實習機會，實際接觸或參與各相關產業的產品設計、分析、測試、製造與生產等實務，以增加學生實務能力與知識。實習內容將視合作廠商性質與提供之工作內容而定，然而將以研發工作之內涵為優先考量。

### Internship 9 E Joint teaching F

This course will provide students the opportunity of intern to learn and to enhance the practical experience and knowledge of product design, analysis, test, and manufacturing in the industries of automotive, mechanical and optoelectronics, etc. The contents will depend on the co-operative enterprises or companies, however, the tasks of research and development in automotive, mechanical and optoelectronic areas are considered in the first priority.

### 微感測器 3 選 李佳言 上

本微感測器為教導學生對微感測器設計與製程的基本原理認識，以及深入瞭解感測器材料與相關製程設備、感測器製作與感測器產業之運作，運用業界所普遍使用的感測器材料與設備介紹，使學生瞭解設備工程師在感測器研發與製作可扮演的角色與任務。授課內容包括微機電系統簡介、微感測器簡介、環境感測器、車輛感測器。

### Micro-sensors 3 E Chia-Yen Lee F

The aim of “Micro-sensors” is to acquaint the students with the basic principles of micro-sensor design and manufacturing. The course also introduces the students to the sensor materials and manufacturing equipments, the sensor fabrication and the sensor business. Utilizing the knowledgement of commercial sensor materials and equipments, the students can understand their roles in the sensor fields. The contents include Introduction to MEMS, Introduction to Micro-sensors, Environmental Sensors and Vehicle Sensors.

**(三) 生物機電工程系：****校外實習(學期)                      9 選                      合授，四下**

為增強本系學生與生物機電相關產業鏈結，於生物機電產業實習18週(4.5個月)以上並滿足720小時以上實習時數可修習本課程。本課程由業界主管及本系教師共同輔導，提供必要諮詢及操作練習。

**Practical Training (Semester)    9    E                      All Teachers, S**

In order to enhance the links between the students and related industries, students are requested to complete internship of biomechatronics engineering industry for more than 18 weeks(4.5 months) /720 hours to fit the requirement of the course. The course provides industrial experts and the faculties to advise students and to provide students with the necessary suggestions and exercises.

**校外實習(暑期)                      2 選                      合授，二上**

為增強本系學生與生物機電相關產業鏈結，於本系指定產業實習320小時以上可修習本課程。本課程由業界主管及本系教師共同輔導，提供必要諮詢及操作練習。

**Practical Training(Summer)    2    E                      All Teachers, F**

In order to enhance the links between the students and related industries. Students are required to biomechatronics engineering industry for more than 320 hours internship to fit the requirement of the course. The course consists of industry experts and the faculties come together to advise students and to provide students with the necessary suggestions and exercises.

**(三) 材料工程研究所：****校外實習                                      3 選                                      合授、下**

本課程規劃讓學生於國內外產學機構進行實務實習，可有效提升對材料科學與工程實務之認識。本課程期使學生掌握最新之材料科技與產品應用發展趨勢，強化學生實作能力，協助學生提早體驗職場，瞭解產業運作，結合理論與實務，培養正確工作態度，以及提升就業競爭性。

**Field Practice                                      3    E                                      Joint teaching、S**

This course allows students to conduct practical training in the industry or academic institutions at home and abroad, which can effectively enhance their understanding of practical techniques in the material science and engineering fields. This course aims to enable students to: master the cutting edge material technology and related product application development trends, strengthen their practical ability, experience the operation of industry for the combination of theory knowledge and practical techniques, develop their positive work attitude, as well as to enhance their competitive employability.

核心能力：擁有材料專業知識與實作技術、跨領域學習與協調整合能力、創新思考與解決問題之能力、實驗設計執行、分析及報告撰寫之能力

### 三、 管理學院

#### (一)工業管理系：

#### 工業安全與衛生 3 選 下

本課程針對學生未來工作中可能面臨的安全與衛生問題，提供所需要的相關基本原理，尤其在安全管理與安全工程方面特別強調。課程分為四部份：第一部份係安全管理，範圍包含概論、法規、教育訓練、災害預防、損失控制、自動檢查等；第二部份係工業衛生，範圍包含工業衛生概論、毒性物質的危害、作業環境測定、及健康檢查等；第三部份係安全控制，範圍包含危害控制、安全評估、緊急應變與事故處理、機械、電機、壓力、及溫度危害、火災與爆炸防止、以及個人防護具等；第四部份係心理與行為，範圍包含工作倫理與態度、職災傾向、人因工程、零災害理念、預知危險活動、及員工協助方案等。

#### Industrial Safety and Hygiene 3 E S

This course is intended to serve the basic needs of students whose future professional work requires a sound knowledge of the fundamental principles of safety, particularly those relative to management and engineering. The course is divided into four parts: Part I: Safety management, including basic principles of accident prevention, management leadership, hazard recognition, safety program management, accident investigation, and occupational safety and health statutes ; Part II: Industrial hygiene, including fundamentals of industrial hygiene, industrial toxicology, and medical and health surveillance system ; Part III: Hazard and stresses control, including industrial noise, fundamentals of machine and power tool guarding, personal protective equipment, fire and explosion protection and prevention, radiation safety, heat and temperature safety, and pressure safety ; Part IV: Psychological and behavioral aspects of safety performance, including attitudes, work ethic, human behavior, acceptance of risk, accident proneness, history and development of the safety movement.

#### (二)科技管理研究所：

#### 量產前管理 3 選 下

本課程在探討自完成產品設計後至產品量產前的相關活動之管理作業，其核心活動在設計規劃爾後產品量產時所需之相關生產作業資訊及生產作業之輔助生產工具，並經由試量產，改善生產效率與品質。以期能有效率的進行產品量產。就實務而言，此類管理活動會因產業不同有不同的做法，本課程僅就一般性及共通點做探討，提供學生基本的量產管理工具及其用法，期盼學生在學習後，在進入職場時，能有適當可用的工具，協助同學完成日常的作業。課程主要內容包含製造流程設計、工模與夾治具設計、試量產、品質與效率改善及工程變更管理等內容。

#### Management of Pre-mass Production 3 E S

The course will provide students the knowledge necessary to convey the design of a product to the shop floor.. In practical applications, the pre-manufacturing plan plays a critical role in

determining the productivity of the production stage of a product. The topics to be covered in this course include process planning, jig and fixture design, pilot run, quality and efficiency improvement, engineering change management, and others.

### (三)資訊管理系：

#### 會計資訊系統 3 選 鄭景華，上

企業透過會計資訊系統收集資訊來管理企業活動，本課程教導學生使用 ERP 系統來記錄企業交易、管理帳款、票據資金、固定資產、營業稅及製作財務報表。

#### Accounting Information Systems 3 E J.H. Jeng, F

Organizations depend on accounting information systems to manage business processes and to collect information for decision making. This course teaches students using ERP to record business transactions, manage financial activities and prepare financial statements.

#### 管理會計 3 選 鄭景華，下

管理會計是管理者進行經濟決策時的工具，它提供資訊來協助決策。本課程的目的在使學生了解管理會計的基本原理，應用企業資源規劃系統進行生產管理活動，及成本結算作業，以提供相關決策所需之成本資訊。

#### Managerial Accounting 3 E J.H. Jeng, F

Managerial accounting serves as an essential tool that enhances managers' abilities to make good economic decisions. The purpose of this course is to enable students to understand the basic principles of managerial accounting, enterprise resource planning, and cost settlement in order to provide the required cost information for decisions.

### (四)財務金融國際學士學位學程：

#### 實務專題 1 選

本課程在訓練學生運用適當之研究方法完成專題計畫。學生將以團隊合作方式進行資料蒐集、分析、論文撰寫、與專題發表。

#### Special Projects 1 E

This course provides assistance for grouped students to complete their research project .

傳閱附件 1-4--本校各學院所屬各系(所)課程中英文摘要-人文暨社會學院

#### 四、 人文暨社會學院

##### (一)幼兒保育系：

##### 兒童課後益智活動實務 3 選 曾榮祥、上

本課程旨在探討兒童課後照顧與益智活動設計之相關領域的教學實務議題，引導學生實務設計、操作與運用兒童課後照顧益智活動相關教材、兒童各益智教具設計與應用的實務議題。並期能引導學生探討、發掘兒童課後照顧益智活動實務設計與教學引導能力及其新近產業實務發展趨勢的掌握，增益學生於兒童課後照顧產業之益智活動教學實務知能。

##### Children's Educational Activities

##### Practice for After-School Child Care 3 E Jung-Hsiang Tseng , F

In this course we will be exploring instructional activities practice for after-school child care. The degree program blends practice. Students will gain the understanding of instructional materials design and application for after-school child care. Students will be expected to explore their instructional topics. In this course we will also help students to understand the development and practice trend of after-school child care.

##### 兒童創意體能活動設計 3 選 曾榮祥、上

課程旨在探討兒童創意體能活動對兒童發展的重要性及其功能。課程內容包含：兒童創意體能活動、企劃相關課程、運動會及體能親子創意活動設計、創意親子律動、創意體能指導及兒童創意體能活動設計，將其運用在學齡兒童學習活動規畫中。

##### Creative Physical Activities Design for Children 3 E Jung-Hsiang Tseng , F

This course explores the significance and contribution of creative physical activities for children development. The development of introducing and designing be to course of physical education, games, and activities. It creates children's gymnastics, dance movement, to follow and play of music. It focuses on the phases of school-aged children motor development and creative physical activities design.

##### (二)應用外語系：

##### 旅行業經營管理概論 3 選 王瀚陞，下

本課程介紹旅行業經營與管理基本知識，讓同學瞭解現代旅行業的工作內容、相關產品、現代旅遊發展趨勢及觀光行銷的技巧與觀念，作為未來從事旅遊相關行業之基礎。。

##### Introduction to Travel Agency Management 3 E S

This course aims to familiarize students with the basic operations of travel agencies and the laws regulating how they arrange tours, accommodations, transportation, and meals for customers domestically and internationally. The latest development of travel agencies in the areas of marketing, computer application, and the Internet will also be introduced to ensure students have a better grasp

of the changing tourism and travel industry.

## 生態文學概論

3 選

下

本課程將介紹同學認識十九世紀以降英美生態文學。藉由閱讀梭羅、愛默生、繆爾、卡森、利奧波德以及英國浪漫詩人等重要生態作家的作品，本課程希冀引導同學反思以人類為中心的價值觀，重新思考人與自然的關係，認識人類的行為對於自然造成的有意識與無意識的破壞，從而思考未來如何維繫人類與自然之間永續和諧的關係。。

## An Introduction to Eco-literature

3 E

S

This course aims to introduce students to eco-literature from the early nineteenth century to the twentieth-century. Through browsing the works by key writers such as Henry David Thoreau, Ralph Waldo Emerson, John Muir, Rachel Carson, Aldo Leopold, and British Romantic poets, students will learn to be critical of the anthropocentric perspective which dominates human-centered discourses about nature, to rethink the relation between nature and human beings, to know about the destructions brought by mankind upon nature, and ultimately to reflect upon how to maintain a sustainable and harmonious relation between human beings and nature.

## 五、國際學院

### (一) 熱帶農業暨國際合作系：

#### 農業自動化概論 2 選 陳和賢, 下

本課程主要介紹農業自動化上所應用之基本自動控制系統及元件介紹。課程包含自動控制系統之組成元件，順序控制，回饋控制，油壓與氣壓系統，感測控制元件，制動器介紹。農業自動化應用包括農業生產系統如作物、蔬果及畜牧生產系統及收穫後系統，另包括智慧農業系統、資訊系統及精緻農業系統。本課程目標是教授基本自動化原理，使學生瞭解農業自動化之元件系統組成與生產應用。

#### Introductory Agricultural Automation 2 E H. H. Chen

Basic control systems and components are introduced in Agricultural Automation. The course mainly includes components of control systems, sequence control, feedback control, hydraulic and pneumatic systems, various sensors, and actuators. Introduction to application includes crops, vegetables, animal productions and postharvest production. In addition, intelligent agricultural system, informatics system and precision agricultural system are included.

#### 農業自動化概論實習 1 選 陳和賢

本課程主要介紹農業自動化上所應用之基本自動控制系統及元件之 Practices 實習。配合課程包含自動控制系統之組成元件，順序控制，回饋控制，油壓與氣壓系統，感測控制元件，制動器介紹。其他應用農業自動化包括農業生產系統如作物、蔬果及畜牧生產系統及收穫後系統，另包括智慧農業系統、資訊系統及精緻農業系統。教學實習內容包括電子元件，氣壓元件，交直流馬達，感測器，以及可程式化邏輯控制器(PLC)等介紹與操作。本課程目標是以實習操作，來使學生瞭解農業自動化之元件系統組成與生產應用。

#### Practices of Introductory Agricultural Automation 2 E H. H. Chen

Basic control systems and components are introduced in the course. The practice mainly includes components of control systems, sequence control, feedback control, hydraulic and pneumatic systems, various sensors, and actuators. Application includes crops, vegetables, animal productions and postharvest production will be introduced. In addition, intelligent agricultural system, informatics system and precision agricultural system are included. Practices of the course also include electronic components, pneumatic system, AC and DC motors, sensors and programmable logic control. The aim of this course is to let students equip basic knowledge and skills of principles, components and systems of the agricultural automation.

#### 食品工程特論 3 選 陳和賢



傳閱附件 1-6--本校各學院所屬各系(所)課程中英文摘要-獸醫學院

## 六、 國際學院

### (一) 獸醫學系：

#### 醫用生化學

2 選

簡基憲, 上

本課程從傳統中醫學及科學的角度提供學生獸醫針灸的專門知識，同時也包括可以與針灸並用的其他訊息及輔助療法，並了解針灸理論在獸醫學上的應用。

#### **Special Topics on Veterinary Acupuncture 2 E C. H. Chien**

The aim of this course is to offer students special topics to veterinary acupuncture from the traditional Chinese medical perspective, as well as from the scientific perspective. There are also some additional information on alternative therapies that work in conjunction with acupuncture and are just being introduced in veterinary medicine. In addition, the acupuncture theory is discussed as it is applicable to veterinary medicine.