



《尊重智慧財產權，請使用正版教科書，勿非法影印書籍及教材，以免侵犯他人著作權》

開課班級：碩疫苗國際專班二A

授課老師：段氏秋容

學分數：2

課程大綱：

The Laboratory Animal Practical Techniques course aims to provide students with a comprehensive understanding of the principles, techniques, and practices involved in handling and caring for laboratory animals in research.

outline:

The course typically covers a wide range of topics, including animal behavior, anatomy, physiology, husbandry, health monitoring, and techniques for handling and manipulating animals for various research procedures. After completing the course, students should be able to work with laboratory animals in a manner that minimizes their discomfort and distress while maximizing the quality and reliability of the data they generate.

教學型態：

課堂教學

成績考核方式：

平時成績:40%

期中考:20%

期末考:30%

其它:10%%

本科目教學目標：

The goal of the course is to ensure that students can work with laboratory animals safely, ethically, and effectively while minimizing the risk of harm to both the animals and the researchers.

參考書目：

Fundamentals of Laboratory Animal Science, by Enqi Liu (Editor), Jianglin Fan (Editor)



課程進度表：

週次	起訖月日	授課單元(內容)	備註
第1週	2.19~2.25	1. Course content & schedule 2. The role of laboratory animal techniques in animal vaccine development	8日正式上課。8~12日課程加退選，轉學(系)生、復學生及延修生選課，雙主修、輔系申請，12日申辦抵免學分截止日
第2週	2.26~3.03	1. Regulations and ethical considerations for animal research 2. Animal welfare	
第3週	3.04~3.10	Freddy Presentation	28日(日)孔子誕辰紀念日/教師節(放假),29日(一)補假
第4週	3.11~3.17	Intensive course by Professor Ito	29日成績優異提前畢業者提出申請截止日
第5週	3.18~3.24	Umar Presentation	6日(一)中秋節(放假)，10日(五)國慶日(放假)
第6週	3.25~3.31	Hung Presentation	14日學生宿舍安全輔導暨複合式防災疏散演練。18日多益測驗
第7週	4.01~4.07	Happi Presentation	24日(五)補假，25日(六)光復暨古寧頭大捷日(放假)。
第8週	4.08~4.14	Minh Presentation	30日校課程委員會
第9週	4.15~4.21	Mid-term exam	3~9日期中考試
第10週	4.22~4.28	Harvey Presentation	13日教務會議,16日教師期中成績上網登錄截止日
第11週	4.29~5.05	1. Selecting appropriate animal models for research 2. Ethical issues	
第12週	5.06~5.12	Common and small animals (Mice, rabbits, Guinea pigs)	24~28體育運動週。24日校園路跑。27日運動大會夜間開幕，28日運動大會活動，29日101週年校慶活動日，照常上班
第13週	5.13~5.19	Target animals (Chickens, Ducks, Pigs, Goats)	
第14週	5.20~5.26	Practical:; Injection routes in animals (IM, SC, ID, Oral, IV)	12日申請停修課程截止日
第15週	5.27~6.02	Methods for collecting blood from animals (Face vein (for mice), and Jugular vein (for ducks, chickens, pigs, goats and cattle)	
第16週	6.03~6.09	Animal sacrifice (Anesthesia, Euthanasia)	22日校務會議。25日行憲紀念日(放假)
第17週	6.10~6.16	Discussion section:; Question and discussion	1日(四)開國紀念日(放假)
第18週	6.17~6.23	Final Exam	5~11日期末考試，10~11日學生退宿