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開課班級：碩疫苗國際專班二A

授課老師：段氏秋容,莊國賓

學分數: 2

課程大綱:

The Biosecurity and Epidemic Prevention System course offers a comprehensive exploration into the fundamental principles and practices necessary to safeguard against infectious diseases and mitigate the risks of epidemics

outline:

The course begins with an introduction to the principles of biosecurity, emphasizing the importance of risk assessment and mitigation strategies. And then move to the fundamentals of epidemiology, covering topics such as Porcine epidemic diarrhea virus, biosecurity, and diagnosis. Students explore the role of infection control measures in preventing the spread of pathogens, including vaccination and personal protective equipment use.

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 Biosecurity and Epidemic Prevention System course aims to provide a thorough understanding of the principles and practices essential for reducing the risks of infectious diseases and managing epidemics.

參考書目:

Biosecurity Interventions: Global Health and Security in Question



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	introduction and course schedule	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	Overall of biosecurity and epidemic prevention system course	
第3週	3.04~3.10	Umar presentation: Epidemiology of Porcine epidemic diarrhea virus	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: 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	Field trip	6日(一)中秋節(放假)，10日(五)國慶日(放假)
第6週	3.25~3.31	Waseem presentation: Biosecurity to prevent Porcine epidemic diarrhea virus	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:;Diagnosis assays to detect Porcine epidemic diarrhea virus	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: Biosecurity in Agriculture and Food Production	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	Biosecurity for a molecular biology laboratory	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	Principles of Infectious Disease Transmission	
第12週	5.06~5.12	Case Studies in Epidemic Response	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	Biosecurity Strategies to Enhance Vaccine Efficiency in Swine Farms	
第14週	5.20~5.26	Biosecurity Strategies to Enhance Vaccine Efficiency in Chicken Farms	12日申請停修課程截止日
第15週	5.27~6.02	Biosecurity Strategies to Enhance Vaccine Efficiency in Duck Farms	
第16週	6.03~6.09	Practical: Design a cGMP-compliant manufacturing process for animal vaccine development	22日校務會議。25日行憲紀念日(放假)
第17週	6.10~6.16	Final exam: Oral presentation 1	1日(四)開國紀念日(放假)
第18週	6.17~6.23	Final exam: Oral presentation 2	5~11日期末考試，10~11日學生退宿