



《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：博熱農一A

授課老師：李栢淳

學分數：3

課程大綱：

This course will introduce development trends on international agriculture, and its topics include the state of global agriculture, agricultural development, food security and nutrition, climate change, farmland water scarcity and conservancy, agricultural product distribution, smart agriculture, agricultural finance, digital agriculture, farmers' organizations, one health approach, agricultural extension, agricultural science and technology, accession to WTO Impact on Agriculture and countermeasures.

outline:

The United Nation (UN) Sustainable Development Goals (SDGs) are a series of 17 goals for world development that directly or indirectly agricultural focus on end of poverty and hunger, food security and nutrition, sustainable agriculture, management of water, sustainable energy, sustained, inclusive and sustainable economic growth, resilient infrastructure, sustainable consumption and production patterns, climate change and its impacts, oceans, seas and marine resources, terrestrial ecosystems, forests, desertification, land degradation, biodiversity, peaceful and inclusive societies as well as global partnership,. In order to achieve the SDGs before the designated 2030 deadline, resource allocation must play a critical role in the organization of global society. This course on agricultural development aims to teach students to understand trends in international agricultural development. The key contemporary issues in international agriculture and development – including food security, food safety, poverty reduction, climate change, greenhouse gas (GHG) emissions, the effects of the financial crisis on agricultural development, food crises and food aid etc. The international agriculture and development highlights two major regional challenges, which are sub-Saharan Africa and South Asia. Agricultural productivity growth is vital for stimulating growth in other parts of the economy, but accelerated growth requires a sharp productivity increase in small holder farming combined with more effective support to the millions coping as subsistence farmers, many of them in remote areas. The success will also depend on concerted action by the international development community to confront the challenges ahead. We must level the playing field in goods, such as technologies for tropical food staples; help developing countries address climate change; and overcome looming health pandemics for plants, animals, and humans.

教學型態：

課堂教學+小組討論

成績考核方式：

平時成績:40%
期中考:30%
期末考:30%
其它:%

本科目教學目標：

- 1.培育熱帶農業研發管理高階人才。 To provide advanced training on R&D and management in tropical agriculture.
- 2.養成技術研發與解決問題之獨立思考邏輯。 To incubate the independent logical thinking in technological R&D and problem-solving.
- 3.研發整合農業生產及管理技術，促成國際合作與發展。 To integrate agricultural productions and management skills, and to facilitate international cooperation and development.



參考書目：

1. Pai Po Lee (2022), Development Trends of International Agriculture, National Pingtung University of Science and Technology. 2. Pai Po Lee (2022), Agricultural Policy and Economic Development, National Pingtung University of Science and Technology.



課程進度表：

週次	起訖月日	授課單元(內容)	備註
第1週	9.11~9.18	1. The State of Food Security and Nutrition around the World in 2023	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	9.18~9.25	2. Agricultural Outlook 2023-2032: Overview	
第3週	9.25~10.02	3.;Ukraine Impact of the war on agricultural enterprises	28日(日)孔子誕辰紀念日/教師節(放假),29日(一)補假
第4週	10.02~10.09	4.;Rethinking our food systems A guide for multi-stakeholder collaboration	29日成績優異提前畢業者提出申請截止日
第5週	10.09~10.16	5. Tracking progress on food and agriculture-related SDG indicators 2023	6日(一)中秋節(放假)，10日(五)國慶日(放假)
第6週	10.16~10.23	6.;Sustainable livestock transformation A vision for FAO 's work on animal production and health	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	10.23~10.30	7.;Climate Risk Toolbox Guiding material for climate risk screening	24日(五)補假，25日(六)光復暨古寧頭大捷日(放假)。
第8週	10.30~11.06	8.;Empowering women farmers: A mechanization catalogue for practitioners	30日校課程委員會
第9週	11.06~11.13	9. Mid-term Exam	3~9日期中考試
第10週	11.13~11.20	10.;The Impact of Disasters on Agriculture and Food Security 2023	13日教務會議,16日教師期中成績上網登錄截止日
第11週	11.20~11.27	11.;The status of women in agrifood systems	
第12週	11.27~12.04	12.;Food Outlook – Biannual report on global food markets	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	12.04~12.11	13.;Methods for estimating greenhouse gas emissions from food systems	
第14週	12.11~12.18	14.;An indirect estimation approach for disaggregating SDG indicators using survey data	12日申請停修課程截止日
第15週	12.18~12.25	15.;Estimating global and country-level employment in agrifood systems	
第16週	12.25~1.01	16.;Technical guide for the Adaptation, Biodiversity and Carbon Mapping Tool	22日校務會議。25日行憲紀念日(放假)
第17週	1.01~1.08	17.;The small-scale fisheries and energy nexus Opportunities for renewable energy interventions	1日(四)開國紀念日(放假)
第18週	1.08~1.15	18.;Final Exam	5~11日期末考試，10~11日學生退宿

