

NTU SYLLABUS

Spring 2017

International Agriculture and Cooperation

Professor: Dr. Pai-Po Lee

Classroom: Meeting Room, 2nd FL.

Time: Thursday 6:30-9:30p.m.

Credits: 3

Phone: 02-28766568 (O)/ 0928-288914(M)

E-mail: p.p.lee@icdf.org.tw

Objectives:

The United Nation (UN) Sustainable Development Goals (SDGs) are a series of 17 goals for world development that directly or indirectly 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 is to aim on insight of trend and policy in global economic and agricultural development. The students are expected to learn the importance of food security, women in agriculture, water supply and scarcity, WTO and world trade, non-tariff barriers in agricultural development, sanitary and phytosanitary regulation standards, climate change, ICT, biochemistry, agricultural research and development. Major issues on global agriculture and economic development will be further

discussed in the class.

Topics:

1. Agriculture for Development
2. Global Strategies for Agricultural Development
3. The State of Global Food Security in the World
4. Agricultural Policy Design, Implementation and Monitoring
5. Women in Agriculture: Closing the Gender Gap for Development
6. Public Private Partnership in Water Supply
7. WTO and Implications on Small Scale Farming of Developing Country
8. Free Trade Agreements and Agricultural Cooperation
9. Non-tariff Barriers to Agricultural Trade
10. Sanitary and Phytosanitary Regulation Standards and Trade
11. Investment in Agricultural Research and Development
12. Situation of cassava
13. The Status of Global Corn Production and Marketing
14. Application of Cultivation Biotechnology to Improve Agricultural Productivity
15. Climate Change and Agriculture: Causes, Elements, Impacts, Mitigation and Adaptation
16. ICT in Agriculture: Mobile Devices and Their Impact
17. Agriculture and Development
18. The Linkages between Food and Economic Crises
19. Technologies Trends in Agriculture
20. The World in 2050 and Prospective Farming for the Future

Approaches of Class:

Speech, Study Group, Presentation of Student and Field Trip

Reference Books and Informations:

1. The World Bank. (2008). World development report— Agriculture for Development.
2. Pai Po Lee. (2015). International Agricultural Cooperation, National Taiwan University.
3. Pai Po Lee. (2016). Agricultural Policy and Economic Development, National Pingtung University of Science and Technology.

Examinations:

The mid-term and final-term examinations will be substituted with written reports and PPT presentations by students.

Grading:

Class performance	30%
Mid-term examination	30%
Final-term examination	40%