

# 國立中興大學教學大綱

## 自然科學領域－環境科學學群

課程名稱 (course name)	(中) 世界糧食問題				
	(Eng.) World Food Problems				
開課系所班級 (dept. & year)	通識教育中心	學分 (credits)	2	規劃教師 (teacher)	高木知芙美 Chifumi Takagi
課程類別 (course type)	必修	授課語言 (language)	中文、英文	開課學期 (semester)	上、下
課程簡述 (course description)	(中) 本課程將會闡述以下主題： 1. 什麼因素造成營養不良？ 2. 造成營養不足的因素 3. 針對營養不足所採取的政策				
	(Eng.) The following topics will be addressed: 1. Malnutrition: what are the facts? 2. Causes of undernutrition 3. Policy approaches to undernutrition				
先修課程 (prerequisites)	無				
課程目標與核心能力關聯配比(%) (relevance of course objectives and core learning outcomes)					
課程目標	course objectives	核心能力 core learning outcomes	配比 合計 100%		
讓學生了解關於世界糧食問題的主要議題及原因並思考解決方法。	Understanding principal issues of world food problem and consider solutions.	人文素養	0%		
		科學素養	0%		
		溝通能力	0%		
		創新能力	0%		
		國際視野	50%		
		社會關懷	50%		
課程目標之教學方法與評量方法 (teaching and assessment methods for course objectives)					
教學方法 (teaching methods)			學習評量方式 (evaluation)		

In class lecture  
discussion  
Field trip

Mid-term exam (35%)  
final exam (35%)  
homework (20%)  
class performance/attendance (10%)

**授課內容 (單元名稱與內容、習作 / 考試進度、備註)**  
**(course content and homework / tests schedule)**

**Course content:**

1. Introduction

Part 1 Malnutrition: what are the facts?

2. Famines
3. Malnutrition definition
4. Measuring undernutrition
5. Impacts of undernutrition
6. Undernutrition: who, when, where?

Part 2 Causes of undernutrition

7. Economics: supply and demand
8. It's not food vs. population
9. Income distribution and undernutrition
10. Other factors influencing demand for food
11. Agricultural land and water
12. Agricultural production and the environment
13. Increasing yields through input intensity
14. Increasing yields through new technology
15. The interaction between undernutrition and health

Part 3 Policy approaches to undernutrition

16. Philosophical approaches to undernutrition
17. Policies that raise the incomes of the poor
18. Policies that address the demographic causes of undernutrition
19. Policies that reduce the price of food through subsidized consumption
20. Policies that improve access to food: it's all about distribution (isn't it?)
21. Policies that raise prices paid to farmers: direct subsidies and elimination of urban bias
22. Policies that reduce the price of food by increasing supply
23. World food supply and demand for the next half century: alternative scenarios

**Field Trip:**

Students will visit an international organization related to world food problems.

**Homework:**

Students will receive two writing assignments: 1) Green revolution paper and 2) Policy maker paper. Detailed information will be announced in the class.

**教科書與參考書目 (書名、作者、書局、代理商、說明)**  
**(textbook & other references)**

The World Food Problem: Toward Ending Undernutrition in the Third World (2009) by H.D. Leather and P. Foster, Lynne Rienner Publishers

**課程教材 (教師個人網址請列在本校內之網址)**  
**(teaching aids & teacher's website)**

另行公告

課程輔導時間  
(office hours)

另行公告