

課程名稱 (course name)	(中) 植物生態與多樣性 (Eng.) Plant Ecology and Biodiversity				
開課系所班級 (dept. & year)	通識教育中心	學分 (credits)	2	規劃教師 (teacher)	國農學程 趙國容
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) 認識植物之生態與多樣性，包含世界上多樣的有趣植物，植物主要生存的生態系(如雨林、沙漠、寒原等)特色，以及植物多樣的適應方式等。了解植物其實在沒有人類的自然環境中，生存良好。進而探討人類活動對他們生存的影響。 (Eng.) To know plant ecology and diversity, including interesting plants in the world, the characteristics of major ecosystems (e.g., rainforest, desert, tundra) for plant survival, and the diverse adaptive ways of plants in different conditions. Therefore, students will understand that plants have their own methods to survive well in the natural environment without human. However, the recent activities by human beings have great impacts on their existence.				
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%
1. 了解什麼是生態以及什麼是生物多樣性	1. To know what is ecology and what is biodiversity.			人文素養	0%
2. 認識野外植物之生態環境及其如何以多樣的方式適應自然。	2. To understand the ecology and adaptive diversity of wild plants.			科學素養	60%
3. 激發學生對保育自然環境及資源重要性之體認。	3. To inspire students' awareness of the importance of natural environment and resources conservation.			溝通能力	20%
4. 以課堂引導、問題討論、及專題報告的方式，協助學生自主學習生命科學學門。	4. To motivate students' active learning in life science-related topics, by course lectures, question discussion, and presentation.			創新能力	0%
5. 英語授課以增進學生英語聽、說、讀、寫之溝通能力。	5. Using English lecturing to improve students' listening, speaking, reading, and writing in English.			國際視野	0%
				社會關懷	20%

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)
講授、討論、專題探討	紙筆測驗、書面報告、口頭報告
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)	
<ol style="list-style-type: none"> 1. Introduction 2. What is ecology and what is biodiversity 3. Vegetations of the world 4. Interesting plants in the world 5. Too many plants in a tropical rainforest 6. Too dry in a desert 7. Midterm exam 8. Too much water in rivers and oceans 9. Too cold in tundra 10. Student presentations: the ecology of plants in an area 11. Conservation issues 12. Final assignment 	
教科書與參考書目 (書名、作者、書局、代理商、說明) (textbook & other references)	
Capon, B. (1994) Plant Survival: Adapting to a Hostile World. Oregon, Timber Press.	
課程教材 (教師個人網址請列在本校內之網址) (teaching aids & teacher's website)	
e-campus	
課程輔導時間 (office hours)	
另行公告	

※本教學大綱將提供講授相同課程之教師參考使用。