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②國玄東華大學

課 綱 Course Outline 海洋生物研究所碩士班生物多樣性及演化組

Cou	文課程名稱 urse Name in nese	海洋學					
英文課程名稱 Course Name in English		Oceanography					
科目代碼 Course Code		MBT_56870	班 別 Degree				
修別 Type		必修 Required	學分數 Credit(s)	3. 0	時 數 Hour(s)	3.0	
	多課程 erequisite						
			課程目標				
			e Objectives				
	學生瞭解各種海域常 動物生理上之影響與	常見之污染因子以及海洋: 與傷害。	動物對汙染物。	之容忍能力,進	[一步評估海洋	 汙染對海	
		•	大教育目標 ucation Objec	tives			
1	研究具有本土特色與國際競爭優勢的海洋生物多樣性及演化課題 Studying the topics of marine biodiversity and evolution with both local and international significance.						
2	培養具備海洋生物多樣性知識與研發能力以及國際觀的專業人才 Training professionals with knowledge, research capability, and global perspective in marine biodiversity.						
系專業能力 Basic Learning Outcomes					力相關性 Correlat between (Objective Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
培養海洋生物多樣性及演化的認知及專業能力。 A Professional knowledge and skills in marine biodiversity and evolution research.							
В	具備海洋生態保育及環境保護的概念。 Concepts of conservation of marine ecology and environment.						
С	具備獨立思考邏輯思辨及問題解決能力。 C Capability of thinking independently and logically and solving problems.						
圖力	示說明Illustratio	n :● 高度相關 Highly	y correlated	○中度相關 Mo	oderately cor	related	
			課程大綱				
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Course Outline

- 1. Introduction
- 2. Open ocean- Phytoplankton
- 3. Algal blooms
- 4. Open ocean- Zooplankton
- 5. Open ocean- Fish & mammals
- 6. Benthic organisms
- 7. Ocean chemistry- C and N cycles
- 8. Temperature, salinity, pH and nutrients
- 9. Ocean acidification
- 10. 期中考試週Midterm Seminar
- 11. Circulation of the ocean
- 12. Waves and tides
- 13. Typhoons, El Nino and La Nina
- 14. Ocean basins: Earth structure and plate tectonics
- 15. Ocean floor topography
- 16. Invited speaker
- 17. Invited speaker
- 18. 期末考試週Final Report

資源需求評估(師資專長之聘任、儀器設備的配合・・・等)

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

其他

Miscellaneous