②國玄東華大學

課 綱 Course Outline

自然資源與環境學系碩士班國際組

中文課程名稱 Course Name in Chinese	國家公園地質專題						
英文課程名稱 Course Name in English	Special Topics in Geology of National Parks						
科目代碼 Course Code	NRESM0520	班 別 Degree	碩士班 Master's				
修別 Type	選修 Elective	學分數 Credit(s)	3. 0	時 數 Hour(s)	3.0		
先修課程 Prerequisite			1	1			
理程日標							

課程目標 Course Objectives

- 1. To develop geologic background, concepts, and principles through study of selected national parks in Taiwan.
- 2. To examine the geologic framework and history, ancient/modern geologic processes, and factors influencing the present day landscape for each park area.
- 3. To finish an essay of introducing the geology of a national park by reading the geological literature.

系教育目標 Dept.'s Education Objectives

- |培養兼具國際視野與本土關懷的學生
- To develop students who care about local issues and have an international perspective.
- - To educate students to have knowledge of both the natural and social sciences.
 - 培養具備環境倫理與人文素養的環境公民
- To teach students to be environmental citizens (i.e., knowledgeable about environmental ethics and human issues.).

	系專業能力 Basic Learning Outcomes	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
A	能覺知多元的自然科學與社會科學理論並具備研究能力 To have knowledge of natural and social science theories.	
В	具備自然資源與人類社會議題之調查分析、規劃與經營之能力 To be able to investigate, analyze, plan, and manage both natural resource and human social issues.	

C	具備將環境倫理與生態思想落實於永續性生活型態的能力 To implement sustainable lifestyles based on environmental ethics and ecological principles.	
D	能以整全式的觀點來解析環境問題,並具備發展系統性解決方案的能力 To resolve environmental issues and develop systematic solutions with a global perspective.	
Е	具備系統分析、未來思考、溝通協調與團隊合作的能 The ability to analyze, plan, communicate, and coordinate with others (teamwork)	
F	具備終身學習、國際視野與外語溝通的能力 To instill the values of lifelong learning, an international perspective, and the ability to communicate in a foreign language.	

圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

課程大綱 Course Outline

This course aims at introducing the geology of selected national parks in Taiwan. Topics to be discussed include: Earth's Structure & Plate Tectonics; Earth Materials, Rock Cycle; Igneous Rocks; Volcanic Activity; Sedimentary Rocks, Weathering, Erosion, Deposition; Metamorphic Rocks; Metamorphism; Geologic Structures; Mountain Building Processes; Geologic Time; Geologic Landforms; Geologic Hazards; Geology of Taroko National Park; Geology of Yangmingshan

National Park; and Geology of Kenting National Park. One required field trip to one of the national parks mentioned will be arranged.

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 Missoller

Miscellaneous