請尊重智慧財產權請合法影印資料 Please consult intellectual property Rights before making a photocopy.

# ② 图玄東華大學

課 網 Course Outline (博士班)

			,	-	<u>′</u>					
中文課程名稱 Course Name in Chinese	地殼演化特論									
英文課程名稱 Course Name in English	Special Topics in Crustal Evolution									
科目代碼 Course Code	班 別 □學士班 Bachelor's □碩專班 Master's program Degree □碩士班 Master's ■博士班 Ph.D.									
修別 Type	<ul><li>□必修 Required</li><li>■選修 Elective</li><li>□學程 Program</li></ul>		學分數 Credit(s)	3	時 數 Hour(s)	3				
先修課程 Prerequisite										
課程目標 Course Objectives	This course aims to broadly investigate and discuss the history and evolution of the Earth's crust and its underlying upper-mantle. Emphasis will be placed on topics related to the solid Earth, orogeny, regional geology, petrochronology, geochemical cycling, ore deposits, and subduction zone geodynamics.									
系教育目標 Dept.'s Education Objectives			中 培養具備自然和 社會科學知識自		培養具備環境 人文素養的環					
課程目標與系教育目標 相關性 Correlation between Course Objectives and Dept.'s Education Objectives	•		•		©					

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

系專業(基本)能力 Basic Learning Outcomes	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							
	B.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							
	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							
	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							
	E.具備系統分析、未來思考、溝通協調與團隊合作的能力							
	F.具備終身學習、國際視野與外語溝通的能力							
	A	В	С	D	Е	F		
	•	0	0	0	•	•		
圖示說明 Illustration :● 高度相關 Highly correlated ◎中度相關 Moderately correlated								

## 課程大綱

#### Course Outline

- 1. Earth Systems: overview
- 2. The Crust
- 3. Tectonic Settings and Regional Geology
- 4. The Upper Mantle
- 5. Mountain Building and Orogeny
- 6. Subduction Zone Geodynamics
- 7. Geochemical Cycling
- 8. Geological Resources

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

## 課程成績評定之依據和標準

Grading Criteria

Project Presentation (50%) and Term Paper (50%)

其他

Miscellaneous