

# 課 網 Course Outline

## 自然資源與環境學系碩士班

中文課程名稱 Course Name in Chinese		地球科學專題							
英文課程名稱 Course Name in English		Special Topics on Earth Sciences							
科目代碼 Course Code		NRES54090	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									
課程目標 Course Objectives									
建立碩士班學生之地球科學背景知識									
系教育目標 Dept.'s Education Objectives									
1	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								
2	培養具備自然科學與社會科學知識的人才 To educate students to have knowledge of both the natural and social sciences								
3	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)								
課程目標與系專業 力相關性 《A專業能力 Basic Learning Outcomes Basic Learning Outcomes Basic Learning Outcomes Basic Learning Outcomes Objectives						ion Course es and Education			
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			0					
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			0					
С	To implement sus	生態思想落實於永續性生 tainable lifestyles ba gical principles			0				

]	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	•
]	- 1	具備系統分析、未來思考、溝通協調與團隊合作的能力 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 covers the following topics: Production and movement of surficial materials; mass movement including landslides and earthquake; neotectonics, soils and soil erosion; precipitation; streams and lakes; groundwater flow; glaciers and their deposits. The course combines aspects of geology, climatology, hydrology, and soil science to present a coherent introduction to the surface of the Earth, with emphasis on both fundamental concepts and practical applications, as a basis for understanding and intelligent management of the Earth's physical, chemical and biological environment.

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.)

由地科組老師合開

## 課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

課堂講授

Lectures

#### 其他

#### Miscellaneous

### 期中與期末考

There are mid-term exam and final exam. Both exams are in class close book exams. Mid-term exam is optional

If a student receives better grade in final exam than in mid-term exam, then final exam counts for 100% of the grade. If a student receives better grade in mid-term exam than in final exam, then mid-term exam counts for 2/5 of the grade and final exam counts for 3/5 of the grade.