

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



課 綱 Course Outline (碩士班)

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		班 別 Degree	<input type="checkbox"/> 學士班 Bachelor's <input type="checkbox"/> 碩專班 Master's program <input checked="" type="checkbox"/> 碩士班 Master's <input type="checkbox"/> 博士班 Ph.D.		
修別 Type	<input type="checkbox"/> 必修 Required <input checked="" type="checkbox"/> 選修 Elective <input type="checkbox"/> 學程 Program	學分數 Credit(s)	3	時 數 Hour(s)	3
先修課程 Prerequisite					

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	培養具備自然科學與社會科學知識的人才	培養具備環境倫理與人文素養的環境公民
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					
課程目標與系專業能力 相關性 Correlation between Course Objectives and Basic Learning Outcomes	A	B	C	D	E	F
	●	●	◎	◎	◎	●
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
課程成績評定之依據和標準 Grading Criteria Participation: 20%; Homework/Assignments 20%; Final Exam: 30%; Term Paper: 30%
其他 Miscellaneous