



課 綱 Course Outline
師資培育中心中等教育

中文課程名稱 Course Name in Chinese	中等自然科學領域地球科學科教材教法1				
英文課程名稱 Course Name in English	Instructional Materials and Methods: Earth Science for Natural and Life Science Area 1				
科目代碼 Course Code	EP__22270	班 別 Degree	學士班 Bachelor' s		
修別 Type	必修 Required	學分數 Credit(s)	2.0	時 數 Hour(s)	2.0
先修課程 Prerequisite					
課程目標 Course Objectives					
培養學生具備地球科學專業知能與教育知能的聯結，讓學生設計的教學內容架構更切合高中學生需求；強調理論與實務並重，探究地球科學教材內容設計、教學媒體運用與教學技能之整合規劃。					
師培中心教育目標 Education Objectives					
1	培育優質專業師資。 Training quality and professional teachers				
2	培育多元視野師資。 Training multiple vision teachers				
3	培育關懷弱勢師資 Training teachers care disadvantaged minority				
4	培育終身學習師資。 Training teachers do lifetime learning				
核心能力 Basic Learning Outcomes				課程目標與核心能力 相關性 Correlation between Course Objectives and Basic Learning Outcomes	
A	具備關懷與熱忱教育理念與實務應用的素養 Students embrace concepts of caring and enthusiastic educational which they can apply in practice.				
B	具備發展學習者需求課程及多元適性評量的素養 Students can develop curricula and multiple adaptive assessment types to meet learners' needs.			●	
C	具備建立正向學習與適性輔導的素養 Students are able to establish positive learning and engage in adaptive counseling.			●	

D	具備並認同實踐教師專業倫理的素養 Students can both recognize and practice teacher professional ethics.	
E	具備科技創新、跨域視野、社會責任、終身學習的素養 Students engage in technological innovation, interdisciplinarity, social responsibility, and lifelong learning.	●

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

課程大綱
Course Outline

1. 科目教案的原理、程序與編寫
2. 教學設計之原理與要點
3. 教材分析與教法選擇
4. 單元教學活動設計與教材製作
5. 電腦軟硬體、周邊設備及電子電路之操作教學
6. 一般課程、實驗課程教學與演示，及表達能力訓練

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.)

投影機

課程要求和教學方式之建議
Course Requirements and Suggested Teaching Methods

講授、討論、口頭與書面報告、練習、學習檔案、參觀訪問、教學演示。

其他
Miscellaneous