## ②國玄東華大學

## 課 網 Course Outline

## 自然資源與環境學系學士班

		- 口 灬 只 小	兴场境学系学士功				
中文課程名稱 Course Name in Chinese		普通化學					
英文課程名稱 Course Name in English		General Chemistry					
科目代碼 Course Code		CHEM10500	班 別 Degree		學士班 Bachelor's		
修別 Type		學程 Program	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite							
			課程目標				
		Cour	se Objectives				
介紹與化學有關之基本原理及概念。							
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						
1	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						
	培養具備環境倫理與人文素養的環境公民						
3 To teach students to be environmental citizens (i.e., knowledgeable about						ıt	
L	environmental et	thics and human is	sues)				
系專業能力 Basic Learning Outcomes			相關性 Correlation Course Obje and Dept.'	課程目標與系專業能力 相關性 Correlation between Course Objectives and Dept.'s Education Objectives			
	具備自然科學與社會科學的基礎知識						
A	天備日然行字典社曾行字的基礎知識 To be knowledgeable of fundamental theories in the natural and social sciences.  ■ To be knowledgeable of fundamental theories in the natural and social sciences.						
В	具備觀察、理解、闡釋自然環境與人類社會互動及變遷關係的能力 To be able to observe, understand, and interpret the changing interactions of natural resources and human society.						
С	的能力 To have the abil	策略、閱讀論文、掲 ity to collect da write and present	ta, understand sci	entific			

	能終身學習、對環境維持熱情、關懷、並願意做出對在地環境獻身						
D	的承諾						
	To cultivate the values of lifelong learning, to maintain						
	enthusiasm and concern for the environment, and to develop						
	commitment to the local environment.						
Е	具備環境倫理觀、社會責任感與社會實踐力						
	To develop and implement environmental ethics and social						
	responsibility.						
F	具備獨立思考、溝通協調與團隊合作的能力						
	To think independently, to communicate effectively, and to	$\circ$					
	cooperate with others as a team.						
G	具備基本外國語文能力						
	The be able 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							
內容包含原子及分子結構、化學鍵結、分子軌域與酸和鹼、化學平衡、熱力學、							
化學動力學等化學基本原理及概念。							
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.)							
現有合宜專任師資;購置訂閱普通化學相關圖書及期刊,提供幻燈機、投影機等							
	課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods							
以Lecture為主							
其他							
Miscellaneous							

規劃負責老師:

單位主管:

系課程委員會審議通過日期: