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## ②国玄東華大學

## 課 網 Course Outline 教育與潛能開發學系科學教育博士班

中文課程名稱 Course Name in Chinese		自然科課程統整特論				
英文課程名稱 Course Name in English		Advanced Issues in Science-Based Integrated Curriculum				
科目代碼 Course Code		SCE_72080	班 別 Degree		専士班 Ph. D.	
修別 Type		選修 Elective	學分數 Credit(s)	3. 0	時 數 lour(s) 3.0	
先修課程 Prerequisite						
課程目標 Course Objectives						
此課程主要目標在認識自然領域課程統整的內涵與形式,並落實在自然領域課程統整的教學與評量中,進而省思自然領域課程統整的相關議題。						
系教育目標 Dept.'s Education Objectives						
1	培養從事科學教育學術研究的進階人才。 To cultivate advanced talents in science education study					
2	培養具備國際視野及在地關懷的科學教育專業領導者。 To cultivate professional leaders in science education with global perspective and local concern					
3	培養科學教育創新的專業領導者。 To cultivate professional leaders for science education innovation					
4	培養各級學校科學教學領航者。 To cultivate science teaching leaders of all levels of schoo					
5	培養大眾科學教育及科學傳播的專業人才。 To cultivate the professional talents of science communication and public science education					
		系專業能力 Basic Learning Out	comes		課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education	
A		理論發展與實踐之素養。 capacity to develop an		neories in	Objectives	

	具備科學教育獨立研究素養。				
В	To possess the ability of independent study focusing on science				
	education				
	具備科學教育的創新與問題解決素養。	_			
C	To possess creativity in science education and the ability of	$\bigcirc$			
	problem solving				
D	具備國際學術交流之素養。				
	To possess the ability of international academic exchanges				
	具備科學教學專業素養。	_			
E	To possess the ability and professional knowledge in science				
	education				
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated					
課程大綱					
Course Outline					
1. 認識自然領域課程綱要與課程					
2. 探討自然領域課程統整的內涵					
3. 了解自然領域課程統整的形式					
J. J 肝日 然例以 体柱 統 筐 的 形 式					
4. 落實自然領域課程統整的實施與評量					
5. 省思國小自然科課程統整的評量相關議題					
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.)					
具備科學教育專長					
課程要求和教學方式之建議					
Course Requirements and Suggested Teaching Methods					
講述、師生討論、設計並實施課程統整教學與評量					
其他					
Miscellaneous					
Miscellaneous					