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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碩士班

Cou	文課程名稱 rse Name in nese	化學專題研究					
英文課程名稱 Course Name in English		Advanced Research in Chemistry					
科目代碼 Course Code		SCE_72010	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	
	多課程 requisite						
			課程目標				
			se Objectives				
綜合普通化學基本概念、化學與環境保護、時下及未來化學發展新知、國小自然與生活 科技領域化學相關教材與實驗,以培養及增強學生的化學學科內容知識(chemical content knowledge)。							
系教育目標							
Dept.'s Education Objectives 1 培養從事科學教育學術研究人才。							
1	To cultivate academic researchers of science education						
2	促進科學教育專業中小學科學師資。 To promote the science teachers' professional development						
3	培養大眾科學教育及科學傳播的人才 To develop talent of public science and science communication						
系專業能力 Basic Learning Outcomes					力相關性 Correlati between (Objective Dept.'s	Correlation between Course Objectives and Dept.'s Education	
					Objective	es	
A	瞭解科學教育專業理論及內涵。 To comprehend the theories and implementations of science education						
В	具備科學教學專業素養。 To possess the professional competencies of science teaching						
С	具有科學教育研究基礎素養。 To have the basic abilities of science education research						
D	具備科學素養與人文關懷。 To integrate scientific literacy with humanistic concern						

Е	具備科學教育推廣與傳播素養。 To possess the abilities of science popularization and communicate				
F	具備主動探究之態度與熱愛自然的情操。 To express the positive attitude toward inquiry and the sentiment adoring the natur				
G	具備多面相的科學觀。 To understand the science with multidimensional viewpoints				
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圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated

課程大綱

Course Outline

- 1. 普通化學基本概念
- 2. 國小自然與生活科技領域化學相關教材與實驗
- 3. 化學與環境保護
- 4. 時下及未來化學發展新知

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.)

多媒體設備、麥克風

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

講述、實驗、討論

其他

Miscellaneous