



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	無機化學(二)		學年/學期 Academic Year/Semester	114/2	
課程名稱(英文) Course Name in English	Inorganic Chemistry(II)				
科目代碼 Course Code	CHEM30900	系級 Department & Year	學三	開課單位 Course-Offering Department	化學系
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0		
授課教師 Instructor	/劉福成				
先修課程 Prerequisite					
課程描述 Course Description					
探討無機化合物之結構、理論及反應					
課程目標 Course Objectives					
配合週期表，藉由原子結構、分子之鏈結與結構，探討無機化合物之特性及化學反應之動力及反應機構。					
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
A	具備化學基礎知識			●	
B	具備獨立思考及分析解決問題之能			●	
C	具備化學專業知			●	
D	具備執行化學實驗之能力			○	
E	具備國際視野與外語能力			○	
圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated					
授課進度表 Teaching Schedule & Content					
週次Week	內容 Subject/Topics			備註Remarks	
1	Ch 9 Coordination Chemistry I: Structures and Isomers				
2	Ch 9 Coordination Chemistry I: Structures and Isomers				
3	Ch 9 Coordination Chemistry I: Structures and Isomers				
4	Ch 10 Coordination Chemistry II: Bonding				
5	Ch 10 Coordination Chemistry II: Bonding				
6	Ch 10 Coordination Chemistry II: Bonding				
7	Ch 11 Coordination Chemistry III: Electronic Spectra				

8	Ch 11 Coordination Chemistry III: Electronic Spectra	
9	Ch 11 Coordination Chemistry III: Electronic Spectra	
10	Ch 11 Coordination Chemistry III: Electronic Spectra	
11	Ch 12 Coordination Chemistry IV: Reactions and Mechanisms	
12	Ch 12 Coordination Chemistry IV: Reactions and Mechanisms	
13	Ch 12 Coordination Chemistry IV: Reactions and Mechanisms	
14	Ch 13 Organometallic Chemistry	
15	Ch 13 Organometallic Chemistry	
16	Ch 13 Organometallic Chemistry 期末考試週 Final Exam	
17		
18		

教學策略 Teaching Strategies

- 課堂講授 Lecture
 分組討論 Group Discussion
 參觀實習 Field Trip
- 其他 Miscellaneous:

教學創新自評 Teaching Self-Evaluation

創新教學 (Innovative Teaching)

- 問題導向學習 (PBL)
 團體合作學習 (TBL)
 解決導向學習 (SBL)

- 翻轉教室 Flipped Classroom
 磨課師 Moocs

社會責任 (Social Responsibility)

- 在地實踐 Community Practice
 產學合作 Industry-Academia Cooperation

跨域合作 (Transdisciplinary Projects)

- 跨界教學 Transdisciplinary Teaching
 跨院系教學 Inter-collegiate Teaching

- 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績(含出缺席) General Performance (Attendance Record)									
期中考成績 Midterm Exam	60%								
期末考成績 Final Exam	40%								
作業成績 Homework and/or Assignments									
其他 Miscellaneous (_____)									

評量方式補充說明

Grading & Assessments Supplemental instructions

教科書與參考書目 (書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

課程教材網址(含線上教學資訊, 教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.
Personal website can be listed here.)

其他補充說明 (Supplemental instructions)