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②图 i 東華大學 教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese			物理化學(一)			學年/學期 Academic Year/Semester		113/1		
Cour		名稱(英文) me in English	Physical chemistry(I)							
科目代碼 Course Code			CHEM20600	系級 Department 學二 & Year		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		
		課教師 tructor	/張海舟							
		修課程 equisite								
課程描述 Course Description										
化學熱力學										
課程目標 Course Objectives										
培養學生在物理化學領域中之專業知識										
系專業能力 Basic Learning Outcomes							Cor	程目標與系專業能 力相關性 relation between urse Objectives and Dept.'s Education Objectives		
A	具備化	△學基礎知識								
В	具備獲	了立思考及分析解決問	問題之能							
С	C 具備化學專業知									
D	具備執行化學實驗之能力							0		
Е	E 具備國際視野與外語能力									
圖示言	說明∐ 	lustration :	高度相關 Hi	ghly correla	ated 〇中	度相關 Moderatel	y corre	lated		
授課進度表 Teaching Schedule & Content										
週次Week 內容 Subject/Topics							備註Remarks			
1 Chapter 1 (The			e properties of gases)							
2	2	Chapter 1 (The	napter 1 (The properties of gases)							
3 Chapter 1 (The properties of gases)										
4	4 Chapter 1(The properties of gases) / Chapter 2 (The First Law)									
5 Chapter 2 (The First Law)										
6 10/17 mid-term 1										
7 Chanter 2 (The First Law)										

8	Chapter 3 (The Second and Third Laws)							
9	Chapter 3 (The Second and Third Laws)							
10	Chapter 3 (The Second and Third Laws)							
11	Chapter 4 (Physical transformations of pure substances)							
12	11/28 mid-term 2							
13	Chapter 4 (Physical transformations of pure substances) / Chapter 5 (Simple mixtures)							
14	Chapter 5 (Simple mixtures)							
15	Chapter 5 (Simple mixtures)							
16	Chapter 6 (Chemical equilibrium)							
17	1/2 final							
18	no class							
教學策略 Teaching Strategies								
✓ 課堂講授 Lecture 分組討論Group Discussion 參觀實習 Field Trip								
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								
社會責任(Social Responsibility)								
□ 在地實踐Community Practice								
──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	配分比例 Percentage	多元評量方式 Assessments							
Items		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(含出鉄席) General Performance (Attendance Record)	0%								
期中考成績 Midterm Exam	57%	>							
期末考成績 Final Exam	33%	>							
作業成績 Homework and/or Assignments	10%								
其他 Miscellaneous ()	0%								

評量方式補充說明

Grading & Assessments Supplemental instructions

成績計算:

mid-term 1 (27%) mid-term 2 (30%) final (33%) homework (10%)

請注意:

- 1. 作業遲交拒收。
- 2. 點名3次不到不及格。
- 3. 請假必須事先報備(請假3次為限)。
- 4. 考試時,務必自行攜帶計算機。

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.)

Physical Chemistry (12th Edition) Author: P.W. Atkins 台灣代理商: 滄海圖書 (趙竣 0932597322)

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)