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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/Se | 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/時月 Credit(s)/Hou | | 3.0/3.0 | /3.0 | | |
| | | 課教師 tructor | /張海舟 | | | | | | |
| 先修課程 Prerequisite | | | | | | | | | |
| 課程描述 Course Description | | | | | | | | | |
| 化學熱力學 | | | | | | | | | |
| | | | 課 | 程目標 Cour | se Objecti | ives | | | |
| 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 | 3 具備獨立思考及分析解決問題之能 | | | | | | | | |
| 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 (| | | ne properties of gases) | | | | | | |
| 2 | 2 | Chapter 1 (The | | | | | | | |
| 3 | 3 Chapter 1 (The properties of gases) | | | | | | | | |
| 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 | | | | | | | |
| | | | | | | | | |
| 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) | | | | | | | | |
| 直上實踐Community Practice 產學合作 Industy-Academia Cooperation | | | | | | | | |
| | | | | | | | | |
| ──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 General Performance | 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)