

質能均衡 - 課程資訊

Mass and Energy Balance – Syllabus

課名/Course title:	質能均衡 (英語授課) Mass and Energy Balance
科號/Course number:	CHE 114001
學分/Credit:	3
時間/Lecture time:	W3 W4 F3
助教/TA:	To be announced
任課教師/Instructor:	沈若樸 (Claire Shen) Email: crshen@mx.nthu.edu.tw Office hour: by appointment

1. 課程說明/Course Description and Objective

介紹質量與能量傳遞及均衡之原理，並將之應用於化學工業製造程序之分析與計算

2. 指定用書/Text Book

Basic Principles and Calculations in Chemical Engineering, 7th Ed, D.M. Himmelblau, Prentice Hall, 2004

3. 參考書籍/Reference Books

R.M. Felder and R.W. Rousseau, *Elementary Principles of Chemical Processes*, 3rd Ed, Wiley, 2000

4. 教學方式/Teaching Method

教師授課為主/Based on lecture material

5. 教學進度/Syllabus

Introduction to Chemical Engineering Calculations (2 weeks)

Material Balances (5 weeks)

Gases, Vapors, Liquids, and Solids (5 weeks)

Energy Balances (5 weeks)

6. 成績考核/Evaluation

Midterm I: 33.3 %

Midterm II: 33.3 %

Final: 33.3 %

Pop quiz (extra credit)

7. AI 使用規則/Indicate which of the following options you use to manage student use of the AI

No AI during exams