

# 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:	王尚軒 (gsn955113@gmail.com)
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*, 7<sup>th</sup> 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*, 3<sup>rd</sup> 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 %