

CHEM326000 光譜分析 《Spectroscopic Analysis》

Department of Chemistry, National Tsing Hua University

Lecture Time Monday 10:10~11:00, 11:10~12:00
Wednesday 09:00~09:50
Instructor Dr. Ching-Ching Yu (游景晴)
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Office Hours Thursday 9:00~23:00 or by appointment

Textbook & Reference Books

- (1) *Introduction to Spectroscopy*, 5th ed., Donald L. Pavia, Gary M. Lampman, George S. Kriz, James R. Vyvyan, CENGAGE Learning, 2015
- (2) *Spectrometric Identification of Organic Compounds*, 8th ed., Robert M. Silverstein, Francis X. Webster, David J. Kiemle and David L. Bryce, WILEY, 2015

Syllabus

- (1) Molecular Formulas and What Can Be Learned from Them
- (2) Infrared Spectroscopy
- (3) Mass Spectroscopy
- (4) Nuclear Magnetic Resonance Spectroscopy
- (5) Ultraviolet Spectroscopy

課程相關資訊：

學分數	3
修別	選修
教學目標	此選修課程內容為光譜分析，尤其著重在如何以光譜知識做為工具，對未知分子進行結構鑑定與分析。課程目標為使學生在習得有機化學知識後，能對化合物的結構分析有更詳細深入的了解及實作經驗，以助於將來在化學相關領域之應用。
成績考核	Assignment: 20% Mid-term exam: 40% Final exam: 40%