

Principles of Instrumental Analysis 2018

Organizer: Chang, Chuan-Fa 張權發(5796)

Lecture hour: Monday 9:10-11:00; **Classroom:** MT 5761 (3F)

Weeks	Contents	Teacher
2/26	Introduction, Measurement basics and Signals and noise	張權發 (5796)
3/05	Introduction of spectroscopy and atomic spectroscopy	張權發 (5796)
3/12	Ultraviolet-visible spectroscopy and molecular luminescence spectroscopy	張權發 (5796)
3/19	Chromatography separation	張權發 (5796)
3/26	Next generation sequencing (NGS)	孫孝芳 (3648)
4/09	Gas/Liquid chromatography	張權發 (5796)
4/16	Molecular mass spectroscopy	廖寶琦 (5566)
4/23	Midterm examination	張權發 (5796)
4/30	Magnetic nuclear resonance	張權發 (5796)
5/07	Cryo-electron microscopy (cryo-EM)	吳尚蓉 (6246)
5/14	IVIS system	蔡佩珍 (5763)
5/21	Optical Instruments	蔡坤哲 (4254)
5/28	X-ray crystallography	王淑鶯 (5634)
6/04	Flow Cytometry	徐麗君 (5765)
6/11	貴重儀器使用中心參訪	張權發 (5796)
6/25	期末報告	張權發 (5796)

- 教科書 (textbook): Principle of Instrument Analysis. Douglas A. Skoog, F. James Holler, Stanley R. Crouch, Thomson Brooks/Cole, Canada, 2007.**
- 學期成績計算方式(grading): 期中考(midterm exam.) 35%, 上台報告 (presentation) 30%, 期末考(final exam.) 35%**