

COURSE SYLLABUS
CHEM 2030 / 2130 – Analytical Chemistry – Fall 2017
Faculty of Science

Lectures (UA 1120): Tuesday, 17:10 - 18:30 and Thursday, 17:10 - 18:30

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"What we hope ever to do with ease, we must learn first to do with diligence."
– Samuel Johnson (1709 - 1784)

Course Description

CHEM 2030U / 2130U is a study of the fundamental principles of "wet" analytical chemistry. The course will cover error in analytical measurement, statistical treatment of experimental data, stoichiometry, solution and titration calculations (volumetric analysis), systematic approaches to equilibrium calculations and buffers and their preparation.

Course Objectives:

1. To learn the principles and calculations required to characterize chemical systems commonly encountered in chemical analyses (stoichiometric and equilibrium calculations).
2. To gain an understanding of how statistical principles are used to evaluate and validate chemical data.
3. To gain proficiency with standard methods of volumetric and gravimetric analyses used in chemistry laboratories.

Textbooks:

- 1) Daniel C. Harris, *Quantitative Chemical Analysis*, 9th edition (W.H. Freeman and Company, NY, 2016). ISBN-13: 978 1-4641-3538-5
- 2) Laboratory Manual for Chemistry 2030 / 2130 (available through Blackboard).

Lecture Schedule:

The class will meet twice per week for 80 minutes (see above). Students are responsible for all material presented in lecture, assigned readings and homework problems. The major themes of the course are:

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