

CHEM 201 Analytical Chemistry 2022-23 Fall Semestre

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Schedule: **Tuesday:** 11:45 – 12:30 (D7) **Thursday:** 9:45 – 11:30 (Math-122)

Texts to follow: Fundamentals of Analytical Chemistry,
Douglas A. Skoog, Donald M. West, F. James Holler, Stanley R. Crouch
Any one of the 7th, 8th, and 9th editions can be used.

Course Coverage:

Part I Tools of Analytical Chemistry

Chapter 1 The Nature of Analytical Chemistry

Chapter 2 Chemicals, Apparatus, and Unit Operations

Chapter 3 Using Spreadsheets in Analytical Chemistry

Chapter 4 Calculations Used in Analytical Chemistry

Chapter 5 Errors in Chemical Analyses

Chapter 6 Random Errors in Chemical Analysis

Chapter 7 Statistical Data Treatment and Evaluation .

Chapter 8 Sampling, Standardization, and Calibration

Part II Chemical Equilibria

Chapter 9 Aqueous Solutions and Chemical Equilibria

Chapter 10 Effect of Electrolytes on Chemical Equilibria

Chapter 11 Solving Equilibrium Problems for Complex Systems

Part III Classical Methods of Analysis

Chapter 12 Gravimetric Methods of Analysis

Course Grading: There will be 2 general and one Final exam

MT1: November 17th, 2022 30%

MT2: December 22nd, 2022 30%

Finalto be announced 40%

Assignments from the end of the Chapter questions..... extra points