CHEM.3140 Analytical Chemistry II
Instrumental Methods of Analysis

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Book: Quantitative Chemical Analysis, 8th edition, 2010 by Daniel Harris

Syllabus

Week #1  Introduction, Overview & Fundamentals
Week #2  Spectroscopy - Theory  Chapter 17
Week #3  Spectroscopy - General Instrumentation  Chapter 18
Week #4  Molecular Spectroscopy  Chapter 19
Week #5  Atomic Spectroscopy, Exam #1  Chapter 20,21
Week #6  Chromatography - Introduction  Chapter 22
Week #7  Chromatography - Gas  Chapter 23
Week #8  Chromatography - Liquid  Chapter 24
Week #9  Chromatography - Other Techniques, Catch Up  Chapter 25
Week #10 Electrochemistry - Introduction  Chapter 13
Week #11 Potentiometric Methods, Exam #2  Chapter 14
Week #12 Coulometric Methods  Chapter 16
Week #13 Voltammetric Methods  Chapter 16
Week #14 Other Instrumental Methods, Catch Up
Week #15 Review

Final Exam will be given 1 week after the last class at 8:00 AM unless an alternate time can be agreed upon by the class unanimously. Time conflicts will result in the final being held at the time scheduled by the University.