

# **CHEM.3140 Analytical Chemistry II**

## Instrumental Methods of Analysis

Instructor: Dr. David K. Ryan

Olney 318a

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Book: Quantitative Chemical Analysis, 8<sup>th</sup> 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.