

Prof. James Wisner  
Office:

## Lectures and Tutorials

Section	Day	Time	Room
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The class notes will be posted to OWL at least 24 hours prior to the lectures.

## Prerequisites

Unless you have either the prerequisites for this course or written special permission from your Dean to enroll in it, you will be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped

## Course Materials

Introduction to Spectroscopy 5th Edition, Pavia/Lampman/Kriz/Vyvyan  
The text will be used extensively. It is a source of numerous problems to integrate theory behind the spectroscopic techniques and practical experience. Note the useful appendices at the back of the book listing important spectral parameters. Also note questions with an asterisk (\*) have answers provided at the back of the text.

Students should check OWL (<http://owl.uwo.ca>) on a regular basis for news and updates. This is the primary method by which information will be disseminated to all students in the class. Students are responsible for checking OWL on a regular basis. All course material will be posted to OWL: <http://owl.uwo.ca>.

If students need assistance, they can seek support on the OWL Help page. Alternatively, they can contact the Western Technology Services Helpdesk. They can be contacted by phone at 519-824-3800 or ext. 83800.

There are many spectroscopy websites, and these are particularly useful:

General Spec [www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/Spectrpy/spectro.htm#contnt](http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/Spectrpy/spectro.htm#contnt)

Z ] Z [ • E D [www3.uwisc.edu/areas/reich/chem605/index.htm](http://www3.uwisc.edu/areas/reich/chem605/index.htm)

Notre Dame spectral problems [www.nd.edu/~smithgrp/structure/workbook.html](http://www.nd.edu/~smithgrp/structure/workbook.html)

## Learning Outcomes

The course also has an emphasis on the development of skills such as critical thinking, analysis, and qualitative reasoning; these professional skills are essential to success in not just chemistry but also in other courses and many occupations.

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### Course Specific Outcomes

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- Recognize the importance of spectroscopy in underpinning chemistry and physical sciences.
  - Think critically about, explain, integrate, and apply spectroscopic principles.
  - Recognize the diagnostic features of a variety of spectroscopic techniques.
  - Elucidate the structure of a compound using a variety of spectroscopic techniques.
  - Identify advantages and shortcomings in spectroscopic techniques.
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## Course Evaluation

The overall course grade will be calculated as listed below:

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Component	Notes	Value
Problem Sets	5 at 5% each (Due dates Feb 14, Feb 28, Mar 6, Mar 20, Apr 3 202	

**Missed assignments** There are no make-up assignments. If you miss an assignment and are granted accommodation, the weight of the missed assignment will be transferred to the assignments that remain.

**Missed midterm test** If you miss the midterm test and are granted accommodation, the weight of the midterm will be transferred to the Final Exam.

**Missed Final Exam** If you miss the Final Exam, contact the Academic Counselling office of your Faculty of Registration as soon as possible. They will assess your eligibility to write the Special Examination. You may also be eligible to write the Special Exam if you are a **Day o š ]%o Æ u ^]š μ š }v \_ ~ X P X U**