

# Chemistry 311-Instrumental Analysis

Winter Session 2001/2002

**Instructor -** Dr. David Chen  
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**Time and Location -** Tuesdays/Thursdays 9:30-11:00 am, Room Chemistry B250

**Office hours -** Thursdays 1:30-2:30 pm

**Mark distribution -** Midterm- 25%      Final- 45%      Lab- 30%

**Laboratory -** Room C224, Chemistry Building

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*Note: both the lecture section and the lab section must be passed to obtain a passing grade*  
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**Assignments-** Homework will be assigned but will not be marked. The answers to the assignments will be posted @ <http://www.chem.ubc.ca/courseware/311/Chem311.html>

**Text:** Skoog, Holler and Nieman, "Principles of Instrumental Analysis - 5th Ed." (required)

## Tentative Course Outline

Jan. 3: Introduction	Jan. 8: Intro to spectrometry (6)
Jan. 10: Intro to spectrometry (6,7)	Jan. 10: Wavelength selectors (7)
Jan. 15: Atomic Spectroscopy (7,8)	Jan 17: Atomic Spectroscopy (8,9)
Jan. 22: Atomic Spectroscopy (10)	Jan. 24: Molecular Spectroscopy (13)
Jan. 29: Molecular Spectroscopy (14)	Jan. 31: Molecular Spectroscopy (15)
Feb. 5: Molecular Spectroscopy (16)	Feb. 7: Molecular Spectroscopy (18)
Feb. 12: Review (if necessary)	Feb. 14: Midterm
Feb. 19: Reading Week ☺	Feb. 21: Reading Week ☺
Feb. 26: Mass Spectrometry (11)	Feb. 28: Mass Spectrometry (11, 20)
Mar. 5: Mass Spectrometry (20)	Mar. 7: Intro. to Chromatography (26)
Mar. 12: Intro. to Chromatography (26)	Mar. 14: Intro. to Chromatography (26)
Mar. 19: GC (27)	Mar. 21: LC, HPLC (28)
Mar. 26: SFC&E (29)	Mar. 28: Capillary electrophoresis (30)
Apr. 2: Capillary Electrophoresis (30)	Apr. 4: Unified Separation Science
Final Exam: TBA	