Course Information

Call Numbers: 01491 (Monday), 01492 (Tuesday)

Overview

This course provides an introductory survey of modern laboratory techniques in analytical spectroscopy. The student will gain hands-on experience with spectroscopic techniques for the determination of both atomic and molecular species.

Instructor

Dr. Gary W. Small, 295 Clippinger, 593-1748, small@ohio.edu
Office hours: 10:00-11:00 a.m., Monday, Tuesday, Wednesday, or by appointment

WWW Address

Class information will be posted at “http://jupiter.phy.ohiou.edu/~small/chem436.html”.

Teaching Assistants

Stephanie King, 171 Clippinger, 707-5156, sk352800@ohio.edu, Office Hours: 10:00 a.m. – 12:00 p.m., Thursday.

Olivier Collin, 80 Clippinger, no office phone, Olivier.collin.1@ohio.edu, Office Hours: 9:00 – 11:00 a.m., Monday.

Yusuf Sulub, 294 Clippinger, 593-1753, ys931801@ohio.edu, Office Hours: 10:00 a.m. – 12:00 p.m., Wednesday, Thursday.

Class Meetings

2:10-6:00 p.m., Monday, 065 Clippinger
2:10-6:00 p.m., Tuesday, 065 Clippinger

Prerequisites/Corequisites

Chemistry 433 or 533

Text


Consumable Supplies Fee

The consumable supplies fee for this course is $25.00.

Course Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Points</th>
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<tbody>
<tr>
<td>Lab reports (8 @ 70 points each, lowest dropped)</td>
<td>490</td>
</tr>
<tr>
<td>Data Analysis Problem Set</td>
<td>60</td>
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<tr>
<td>Laboratory notebook</td>
<td>50</td>
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<td>Total</td>
<td>600</td>
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Assignment of Grades

The distribution of point totals will be used in assigning letter grades. Separate grade distributions will be used for undergraduate and graduate students. The plus-minus grading system will be used.

Late Assignments

Assignments are due at 6:00 p.m. on the days due. Late assignments will be penalized at the rate of 5 points per calendar day (including weekends). This policy will be enforced without exception.

Laboratory Notebooks

Each student will be expected to keep a laboratory notebook during the quarter. Notebooks will be assigned a grade at the end of the course. Specific instructions for keeping notebooks will be given in class.

Laboratory Safety

Proper laboratory safety is always a major concern. Safety goggles must be worn at all times. Lab coats and gloves are optional, but recommended.

Attendance Policy

Students are required to attend every lab session. Failure to perform an experiment will result in a grade of zero for the corresponding laboratory report.

Policy on Academic Misconduct

The work you perform in this course is expected to be your own. The laboratory experiments will be performed in groups of two or three students. However, once you leave the laboratory, no collaborative work is permitted. If you have questions regarding an experiment, see the instructor. In grading the laboratory reports, the instructors will be looking for evidence of collusion. If such evidence if found, all parties involved will receive no credit for the assignment. These principles also apply to the use of graded lab reports from previous years. You will receive no credit if it is determined that the work you turn in is not your own.
Week of

Sep.  8 -- Introduction
Sep. 15 -- Experiment #1; Problem Set due
Sep. 22 -- Experiment #2
Sep. 29 -- Experiment #3; Lab Report #1 due
Oct.  6 -- Experiment #4; Lab Report #2 due
Oct. 13 -- Experiment #5; Lab Report #3 due
Oct. 20 -- Experiment #6; Lab Report #4 due
Oct. 27 -- Experiment #7; Lab Report #5 due
Nov.  3 -- Experiment #8; Lab Report #6 due
Nov. 10 -- No class, Lab Report #7 due
Nov. 17 -- No class, Lab Report #8 due

*The problem set and lab reports 1-8 are due by 6:00 p.m. on the day your lab section meets (Monday or Tuesday).

Note: Each student must perform all eight experiments. The lowest of the lab report grades will be dropped.