

Chemistry 3481: Physical Chemistry Lab

Instructor:

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Office Hours: Friday, 11am-12:00pm or by appointment

Teaching Assistant:

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Course Material:

Physical chemistry experiments demonstrating fundamental concepts in thermodynamics, spectroscopy and kinetics are available at T-square.

(Strongly) Recommended Text:

David Shoemaker, Carl Garland and Joseph Nibler Experiments in Physical Chemistry. Any edition from the 6th to the present is sufficient. Older is cheaper.

Class Time:

Lecture: M 1:05-1:55pm;

Labs: One afternoon each week

Section A1: 1:05-5:55pm W, Boggs 2-63.

Section A2: 1:05-5:55pm F, Boggs 2-63.

Experiments do not normally last the entire period. You must show up for your lab period or you will be unable to turn in a report.

Prerequisites:

Physical Chemistry 3411 and Synthesis I Lab 2380.

General Information:

Students in each section perform experiments in groups of two or three. Experiment schedules are posted on T-Square. All students must be present and perform their assigned lab on the assigned day. No shorts or sandals in the lab. Safety glasses MUST BE worn at all times.

Grading:

Assignment of Grades:

A..... ≥ 85

B..... $75 < 85$

C..... $65 < 75$

D..... $55 < 65$

F..... < 55

Grading Breakdown:

Laboratory Reports.....70 points

Lecture Attendance and Participation.....10 points

End of Semester Project.....10 points

Pre-labs.....5 points

Laboratory Participation.....5 points

If assigned, you must complete the pre-lab exercise and the Excel template before arriving in lab. If not completed, and turned in by 1:05pm on the day of your lab, you will receive a **10 point deduction** on the associated lab report. If you have an excuse, please send an e-mail before the lab period begins.

All excused absences and deadline extensions for lab reports must be given in writing. E-mail is acceptable and preferred. Save the document or e-mail as confirmation. This is for your benefit.

Late Reports and Dropped Labs:

There are ten experiments. Your lowest **non-zero** lab grade will be dropped for the calculation of the Laboratory Reports portion of your grade. If you receive a zero on any lab report, for any reason, it **will not** be dropped.

All lab reports are due at 1:05pm at the beginning of the next regularly scheduled lab period.

Late reports will be penalized by a **deduction of 25 points**. Reports will be accepted up to 5 days (120 hours) late. Penalties will be waived and extensions can be given with acceptable documentation. Late reports must be turned in to the Chemistry and Biochemistry main office (2nd floor in the Molecular Science and Engineering building). Be certain that your report receives a date and time stamp.

Example penalties, for a student in section A1 (Wednesday):

Report turned in at 5:00 on Wednesday: 25 point deduction

Report turned in at any time on Thursday: 25 point deduction

Report turned in at any time Friday: 25 point deduction

Report turned in at noon the following Monday: 25 point deduction

Report turned in at 1:06 the following Monday: Not accepted

Academic:

All students will abide by the GT Academic Honor Code.

www.honor.gatech.edu

You will be expected to sign each report stating that you have completed the requirements in accordance with these policies; failure to do so will result in zero points. You are to work with others while performing the experiments, but the lab report must be your own work. ***“Unauthorized use of any previous semester's lab reports and coursework, is prohibited in this course. Using these materials will be considered a direct violation of academic policy and will be dealt with according to the GT Academic Honor Code.”*** Reference any discussion or assistance you may receive from others. ***Plagiarizing is defined by Webster's as “to steal and pass off (the ideas or words of another) as one's own”. If caught plagiarizing, you will be dealt with according to the GT Academic Honor Code.***