

SCHEDULE

With the exception of Week 7, we will spend two weeks on each experiment. When you come to lab on the first day of a particular experiment, you should have with you notes you have taken on the assigned topic, based on materials you have found in the library. You won't be allowed to start the actual laboratory work until you have done this.

The first week of each 2-week cycle will be devoted to carrying out the experiment, making certain you have collected all the data you need to carry out the analysis. You should run through the necessary calculations before coming to lab the second week. You are then in a position to repeat any measurements necessary, as well as make corrections in the analysis.

Informal Lab Reports: Lab reports are due by noon the Friday after the last lab meeting of each cycle. Late lab reports will not be accepted. Biweekly lab reports should follow the format posted in the [Introduction to Laboratory Practices \(for Upper-level Labs\)](#). (Please also consult the [Sample Lab Report](#).) There should be a brief Introduction, including a summary of the results of your library research, sketches and commentary which describe what you did in lab, appropriate data with proper analysis, and finally a Conclusion. The Conclusion needs to describe the following, and should do so in paragraph form [i.e. in full sentences, without tables, and without the numbers], with no more than 2-3 sentences for each part: (1) What you did, (2) What your results were, and (3) What you conclude from these results.

You must keep a lab notebook for every lab, which you will use to record all pertinent observations you make during your lab work. Please leave the first page blank to serve as a Table of Contents for the entire notebook.

FORMAL LAB REPORTS

In addition to your lab notes, you will be required to submit two formal laboratory reports, based on two experiments you perform during the semester, including the lab project at the end of the semester. The first draft of the first report will be due Monday, March 5, at the start of the 7th week of classes. The final draft of this paper will be due at the end of the 8th week, Friday, March 23. The second lab report will be due the last day of classes, Friday, May 4.

PROJECTS

While all students will work in pairs on the same experiments during the bulk of the semester, for two weeks you will work on separate projects, much like the microwave projects last semester.

SCHEDULE (*Subject to change*):

Weeks 1-2:	Tunneling / Franck-Hertz / Stefan-Boltzmann
Weeks 3-4:	Tunneling / Franck-Hertz / Stefan-Boltzmann
Weeks 5-6:	Tunneling / Franck-Hertz / Stefan-Boltzmann
Week 7:	Quantum Dots
Weeks 8-10:	INDIVIDUAL PROJECTS
Weeks 11-12:	Radioactivity
Weeks 13-14:	Diodes

Lab report #1:

First draft due: Monday, March 5

Final draft due: Friday, March 23

Lab report #2:

Final draft due: Friday, May 4

ACADEMIC HONESTY: SELECTIONS FROM THE SLU STUDENT HANDBOOK

All students at St. Lawrence University are bound by honor to maintain the highest level of academic integrity. By virtue of membership in the St. Lawrence community, every student accepts the responsibility to know the rules of academic honesty, to abide by them at all times, and to encourage all others to do the same.

Responsibility for avoiding behavior or situations from which academic dishonesty may be inferred rests entirely with the students. Claims of ignorance, unintentional error, and academic or personal pressure are not excuses for academic dishonesty. Students should be sure to learn from faculty what is expected as their own work and how the work of other people should be acknowledged. Instructors are expected to maintain conditions which promote academic honesty.

Instructors have the duty to investigate any instance involving possible academic dishonesty and must present evidence of academic dishonesty to the Academic Honor Council rather than make private arrangements with the student involved. Violations of the St. Lawrence University Code of Academic Honor are administered under the constitution of the Academic Honor Council [See Student Handbook for the Constitution].

The primary objective of the University is the promotion of knowledge. This objective can be furthered only if there is strict adherence to scrupulous standards of honesty. At St. Lawrence, all members of the University community have a responsibility to see that standards of honesty and integrity are maintained.

Students who respect academic honesty and who are orderly and meticulous in their treatment of both their own work and the work of others should anticipate no difficulty with cheating, plagiarism, or other forms of academic dishonesty. Borrowing ideas or language from others is acceptable scholarly practice and in many instances actively to be encouraged.

Academic dishonesty generally arises from one of two sources: either a student has knowingly cheated or plagiarized or he/she has been careless or slipshod in discriminating between his/her own work and that of others or in acknowledging sources accurately. These latter difficulties are easily circumvented. Any standard handbook on English usage or term paper writing manual will furnish a methodology as well as appropriate internal reference, endnote, or bibliographical forms (cf., for example, the *Harbrace Handbook*, *A Guide to MLA Documentation*, or *Writers Inc.*).

A major objective of the University is the pursuit of knowledge which can be achieved only by strict adherence to standards of honesty. At St. Lawrence, all members of the community have a responsibility to see that these standards are maintained.

Academic Dishonesty

1. It is assumed that all work submitted for credit is done by the student unless the instructor gives specific permission for collaboration.
2. Cheating on examinations and tests consists of knowingly giving or using or attempting to use unauthorized assistance during examinations or tests.
3. Dishonesty in work outside of examinations and tests consists of handing in for credit as original work that which is not original, where originality is required.

The following constitute examples of academic dishonesty:

- a. Plagiarism: Presenting as one's own work the work of another person - words, ideas, data, evidence, thoughts, information, organizing principles, or style of presentation-without proper attribution. Plagiarism includes paraphrasing or summarizing without acknowledgment by quotation marks, footnotes, endnotes, or other indices of reference (cf. Joseph F. Trimmer,
- b. Handing in false reports on any experiment.
- c. Handing in a book report on a book one has not read.
- d. Falsification of attendance records of a laboratory or other class meeting.
- e. Supplying information to another student knowing that such information will be used in a dishonest way.
- f. Submission of work (papers, journal abstracts, etc.) which has received credit in a previous course to satisfy the requirement(s) of a second course without the knowledge and permission of the instructor of the second course.

Claims of ignorance and academic or personal pressure are unacceptable as excuses for academic dishonesty. Students must learn what constitutes one's own work and how the work of others must be acknowledged.

St. Lawrence students are required to sign the following statement prior to registration for classes:

I hereby acknowledge that I have read the above document and I understand my responsibility in maintaining the standards of academic honesty at St. Lawrence University.

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