

PHYSICS 184 - Laboratory Schedule

Summer 2004 III AM (Third 4.5 -Week Term July 07 – August 06, 2004)

Section 001 M W F 11:50 AM - 1:40 PM
 002 T Th. 11:50 AM - 1:40 PM *F 7:45 AM – 9:35 AM
 All sections meet in Room 317 Grote Hall

Instructor Harold A. Climer
 Room 318 Grote Hall
 Office Hours: by Appointment Only
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LIST OF EXPERIMENTS

Experiment and Title	Section 001	Section 002

Week 1		
1. Magnetic Balance	W 07 July '04	Th 08 July '04
2. Ohm's Law and Power	F 09 July '04	*F 09 July '04
Week 2		
3. Potentiometer	M 12 July '04	Tu. 13 July '04
4. Wheatstone Bridge	W 14 July '04	Th. 15 July '04
5. R.C. Time Constant	F 16 July '04	*F 16 July '04
Week 3		
6. Oscilloscope	M 19 July '04	Tu. 20 July '04
7. Diode Power Supply	W 21 July '04	Th. 22 July '04
8. Lenses and Images	F 23 July '04	*F 23 July '04
Week 4		
9. Diffraction & Hg Spectrum	M 26 July '04	Tu. 27 July '04
This is two seperate lab reports		
10. Final Exam	W 28 July '04	Th. 29 July '04

Lab reports are due at the beginning of the next lab class. The **Formal Lab Report** for the **R.C. Time Constant is due FRIDAY 23 July 2003 for sections 001 and 002.**

You do not need a lab notebook to do your lab reports. Use your lab notebook only to record your original data and to make a **Yellow Copy** to turn in to me before you leave class. If you have an old lab notebook you may use it since you will not be submitting lab reports in the notebook.

Follow the example of how to write a regular lab report using the handout on my Web page. An example of a completed report is also available on my Web page. **If your handwriting is legible the lab report can be submitted in longhand. Lab reports are to be done in INK** on 8 1/2" X 11 1/2" notebook paper. If you prefer, you may use a word processor.

The Diffraction & Hg Spectrum (Two separate labs) will be due at the Final Exam.

PRE-TESTS

At the beginning of the laboratory, students will be given a 5-minute Pre-Test. It will consist of two questions concerning that day's lab. You must come to class on time, as no late tests will be given. **It is advisable that you read the theoretical material for that day's lab in your textbook as well as the material in your lab manual or any handouts I give you, before you come to class.**

WHAT WILL BE COVERED IN THE LAB

Only the most basic points of the theory behind the lab will be covered during the lab session. This is not the lecture. Also do not expect the lab to always be in sync with materials covered in your lecture. It is up to you to read any materials in your text book and lab manual concerning that day's lab.

WHAT YOU DO DURING THE LABORATORY SESSION

During the laboratory session in class you should record all work you have performed. All activities, experimental data, results, etc. should be recorded as they occur, **IN INK!!! in your lab notebook.** No erasures should be made.

DO NOT USE WHITE OUT!!!

A single line through the "wrong material" is sufficient, with any corrections or changes noted above or beside it. This will allow for the recover of information which, later, may be prove to be valuable. Your lab results should be **RECORDED IN DUPLICATE.** You can use "Laboratory research notebook" or "Computational notebook", which are available at the UTC Bookstore (Identifying number is 43-645 or 54-641). Before leaving the class, you should tear out the yellow (carbon) copies and leave them with your instructor, who will keep them until the end of the summer session as a proof that you have performed the experiment.

Make a Xerox copy of the white pages and attach to your lab report. DO NOT TEAR WHITE PAGES OUT OF YOUR NOTEBOOK!!! (Again, if you have an old lab notebook you may use it since you will not be submitting lab reports in the notebook)

FORMAL REPORT

The Completed **FORMAL LABORATORY REPORT** on the **R.C. Time Constant Experiment** is worth 20% of your final lab grade and must be type written. Follow the instructions in the appendix of your Lab Manual on HOW TO WRITE A FORMAL LAB REPORT for the proper format

CLASS ATTENDANCE

Attendance at all laboratory sessions is required. **If you miss a session, you will get a zero for that lab.** I may make exceptions and allow you a make up a session if I am convinced that you were ill, had a death in the family, or were involved in a similar emergency. **(YOU MUST BRING DOCUMENTATION)**

Come to class on time. Some of the labs take the whole hour and 50 minutes to Complete, and the lab time will not be extended.

Students are responsible for all information that is given in class, whether they are present or not.

HOW YOU WILL BE GRADED IN THIS LAB

Pre –Tests 10%

Regular Lab Reports 55 %

Formal Lab Report 20%

Final Exam 15%

Total 100 %

Late Lab Reports

1-day late -8.0 Points (One Letter Grade)

2 days late -16.0 Points(Two letter Grades)

NO LABS MORE THAN 2 DAYS LATE WILL BE ACCEPTED FOR CREDIT!!!!

Saturday and Sunday do not count as late days. Also no Labs will be accepted after 3:00 PM on 29 July 2004. **If it is not turned in by then it will not be graded.**

If you have a disability which may require assistance or accommodations, or you have questions related to any accommodations for testing, note takers, readers, etc., please speak with me as soon as possible. You may also contact the Office of Student Affairs (425-4534) with questions about such services