

Physics 1310L or 1320L

Section 1, CRN:nnnnnn

Spring, 2024

Workman 115 or 107

Day, time

Instructor: Instructor Name.

email: official.email@nmt.edu

phone: 575.835.5047

Office: RoomNuber Workman Bldg.

Office Hours: Days, hours; other times by appointment.

Course Description: (for P1310L) Experiments from the subject matter of PHYS 1310.

(for P1320L) Continuation of PHYS 121, including electricity and magnetism.

This course addresses a cross-section of the concepts introduced in the lecture. It introduces techniques for obtaining and analyzing experimental observations using diverse methods and equipment.

In general, students are asked to report their activities and results clearly and concisely in formats ranging from "worksheets" to a formal Lab report write-up. The time spent outside Lab on preparation, data analysis, and presentation will vary somewhat, but an average of up to three hours of outside work per Lab is encouraged.

Pre-requisites: (for P1310L) N/A , (for P1320L) Phys-1310

Co-requisites: (for P1310L) Phys-1310 , (for P1320L) Phys-1320

Grading: The final grade is composed as follows:

Lab Reports	50%
Worksheets	50%

A 100-point scale is used to grade papers and worksheets; points are converted to the NMT letter grading system (published in the current catalog) using the following table.

Letter Grade	F	D	D+	C-	C	C+	B-	B	B+	A-	A
100-point scale	[0,59]	[60,67]	[67,69]	[70,72]	[73,76]	[77,79]	[80,82]	[83,86]	[87,89]	[90,92]	[93,100]

Mode of Instruction: This Lab is delivered face-to-face.

Course Schedule: Laboratory exercises are performed weekly. Their sequence is given in the Lab Manual. Preliminary material is covered during the first week of classes; the first Lab is performed during the second week.

Place in Curriculum: This course is a General Education Core requirement in Science. It corresponds to New Mexico Area III and satisfy Essential Skills in Quantitative Reasoning, Critical Thinking, and Personal and Social Responsibilities.

Course Learning Outcomes: By the end of this course, it is expected that students will have acquired first-hand knowledge of the fundamental principles of [(for P1310) Newtonian Mechanics] or [(for P1320L) electro and magnetostatic phenomena]. In addition, the students should have learned basic techniques for obtaining and analyzing experimental data in a manner consistent with academic integrity.

Program Learning Outcomes: Apply quantitative analysis to scientific problems and Communicate scientific information.

Course Requirements: The required Lab Manual is provided to you; it has all the relevant information to perform each Lab. You are expected to read it before the Lab and bring it to the Lab. You are also expected to bring a laptop computer to perform some of the data analysis. Be ready to work with all needed materials (pencils, notebooks, Laboratory Manual, personal computer, etc.).

For safety, No food is allowed in the Lab; beverages should be carried in spill-proof containers. You are also expected to follow the instructions for each Lab carefully. Furthermore, It is required that you comply with the COVID-19 procedures given below to reduce the risk of transmission in the Lab. Make sure you read and understand them.

Attendance is mandatory. Punctuality in attendance and completion of all assignments on time is required. You are expected to submit your reports a week after the Lab is completed.

Rotation of individual roles in a team is required to ensure everyone's participation in the exercises. Ensure your Instructor signs off your raw data before leaving the Lab.

Approach all issues with professional courtesy and respect the efforts, opinions, and property of others. Disruptive behavior, including horseplay and reckless use of equipment, will NOT be tolerated.

To minimize disruptions in the Lab, you are required to abide by the following rules of etiquette. Cell phones should be reserved for emergencies –no text. If you must accept a call, please take it outside the Lab. If you are late to the Lab, please keep the disruption to a minimum while joining your team. Abusers may be asked to leave the Lab.

Policies:

- The lowest grade on a worksheet is not counted toward the final grade. In contrast, all grades from Lab reports are counted.
- Lab reports are graded according to the rubric posted on CANVAS.
- In general, there are no makeup labs, but the Instructor may grant a request under extenuating circumstances.
- Under no circumstances are students allowed to take the Lab with a different TA –this is a FERPA violation.
- Excused absences. To be an excused absence, a legitimate note (e.g., a Medical note.) has to be submitted to the Instructor. At the Instructor's discretion, the student can prepare and submit the corresponding Report or Worksheet using only Instructor's provided data. No penalty is assessed in this case.

- Unexcused absences. Depending on the specific case, at the Instructor's discretion, the student may be allowed to submit the corresponding Report or Worksheet using only Instructor's provided data. In this case, however, a report can earn at most 80% of the grade, while worksheets only 50%.
- Late work. Lab work submitted late for grading but not more than a week past due will be accepted but will earn at most 80% of the grade. No lab work past due more than a week will be generally accepted, but at the Instructor's discretion, it may be accepted under extenuating circumstances.

NMT Academic Honesty: New Mexico Tech's Academic Honesty Policy for undergraduate and graduate students is found in the catalog, which can be found at:

<https://www.nmt.edu/registrar/catalogs.php/>.

Further information about academic honesty can be found on the Associate Vice President for Academic Affairs website:

https://www.nmt.edu/academicaffairs/avppa/academic_honesty.php .

You are responsible for knowing, understanding, and following this policy.

Laboratory exercises are a group effort, and discussing the material with each other is encouraged. Unless your Instructor specifically directs sharing data with other teams, only data you collect with your team can be shared within the team, which must be acknowledged. Giving or receiving data for your analysis from any other source is not permissible. Data obtained during the lab session is expected to be the same within each group (tables, graphs, etc.). However, your written assignment must be your own work; any help received must be acknowledged, and proper citations of the utilized sources must be included. Plagiarism is not tolerated. Any suspicion of a violation of the letter or intent of the NMT policy will be reported to the Lab Director, who will determine the appropriate charges to bring to the Office of the Associate Vice President for Academic Affairs. In general, obtaining answers that, in any way, bypass the need to think about the assignment is a violation of the academic honesty policy and can have serious consequences. If in doubt, please ask your Instructor before submitting any work as your own.

New Mexico Tech Services and Policy

Student Resources

Wondering where to go for help? Please see the offices below or visit the "Where NMT Students Should Go for Help" website.

NMT Academic Honesty: New Mexico Tech's Academic Honesty Policy for undergraduate and graduate students is found in the student handbook, which can be found at:

<https://www.nmt.edu/studenthandbook/>. You are responsible for knowing, understanding, and following this policy.

Student Success: New Mexico Tech offers numerous peer tutoring services for students who are struggling in their courses, or who just wish to receive friendly advice, including the Office of Student Learning (Skeen Library, <https://www.nmt.edu/osl/>), Math Helproom (<https://www.nmt.edu/academics/math/ugrad/mathhelproom.php>), the Writing and Communication Lab (Skeen Library, <https://www.nmt.edu/academics/class/center.php>), and numerous department-run centers. These services are free of charge to students! Students may also consult the Dean for

Student Success Initiatives,

Elaine Debrine Howell (Fidel, rm. 237; 575-835-5208; elaine.debrinehowell@nmt.edu) or may receive emails from her if they are struggling in class.

Reasonable Accommodations: New Mexico Tech is committed to protecting the rights of individuals with disabilities and providing access and full participation in the educational experience. Students with disabilities who require reasonable accommodations are invited to make their needs known to the Office for Student Access Services (SAS) as soon as possible. Accommodations are not retroactive and may take some time to implement. The process for requesting accommodations can be found at their website https://nmt.edu/ds/for_students.php You can contact SAS in person at the Fidel Center Room 245, call 575-835-6209, email access@nmt.edu or book through the link on our website.

Counseling Services: The Counseling Center is very excited to announce that Tech has partnered up with the Virtual Care Group (VCG), to offer free supplemental healthcare services to our degree-seeking students. This virtual healthcare includes unlimited Tele-medical and unlimited Tele-therapy/counseling sessions available 24/7, as well as life coaching. Both in-person sessions on campus and this virtual healthcare are available for those degree-seeking students currently enrolled for Fall classes. Download The Virtual Care Group app from your app store. For questions about the platform, please email VCG's Care Team at care@virtualcaregroup.com. For more information on services at NMT, please call 835-6619, email counseling@nmt.edu or check out our website at <https://www.nmt.edu/cds/>.

Respect Statement: New Mexico Tech supports freedom of expression within the parameters of a respectful learning environment. As stated in the New Mexico Tech Guide to Conduct and Citizenship: "New Mexico Tech's primary purpose is education, which includes teaching, research, discussion, learning, and service. An atmosphere of free and open inquiry is essential to the pursuit of education. Tech seeks to protect academic freedom and build on individual responsibility to create and maintain an academic atmosphere that is a purposeful, just, open, disciplined, and caring community."

Title IX Reporting: Sexual misconduct, sexual violence, and other forms of sexual misconduct and gender-based discrimination are contrary to the University's mission and core values, violate university policies, and may also violate state and federal law (Title IX). Faculty members are considered "Responsible Employees" and are required to report incidents of these prohibited behaviors. Any such reports should be directed to Tech's Title IX Coordinator (Dr. Peter Phaijah, 238 Fidel Student Center, 575-835-5953 (O), 575-322-0001 (C), titleixcoordinator@nmt.edu) or reports can be filed online to Tech's Title IX ; Sexual Misconduct Report. Please visit Tech's Title IX Website (www.nmt.edu/titleix) for additional information and resources.