

Electricity & Magnetism

Physics 1520

Fall 2025

Lecture Section: 001, Monday/Wednesday/Friday 9:00-9:50 in Physics Building 104

Recitation Section: 201, Monday/Wednesday 1:00-1:50 in Wooten Hall 217

Professor: Jacob Owens

Office: GAB 525G

Office Hours: Fridays 12-1 or by appointment.

Email: Jacob.Owens@unt.edu

Text: Matter & Interactions 5th Edition by Chabay, Sherwood, Titus, Spicklemire

Topics: Electric charge, electric fields, Gauss's Law, electric potential, capacitance, dielectrics, current, resistance, electromotive forces, DC circuits, magnetic fields, magnetic forces, electromagnetic induction, Maxwell's equations, electromagnetic waves

Lab Credit: You must enroll separately in Physics 1540 for laboratory credit.

Attendance and Participation: You are expected to attend and participate in all lectures and recitation sections, health permitting.

Recitation: Your recitations are designed to reinforce and clarify any concepts covered in lecture. This can include reviewing any theory presented in lecture or solving problems similar to those seen in your homework.

Tutoring: The Physics Instructional Center (PIC)—located in Hickory 266—is staffed weekdays by tutors to assist you with questions regarding homework assignments. TA contact information will also be posted on Canvas.

Homework: All homework will be posted and submitted online using WileyPLUS. You must access your assignments and submit your solutions by the due date given on Canvas. Late homework submissions will face a deduction penalty of 50%.

Exams: There will be **three exams and a comprehensive final exam on Wednesday, December 10 from 8:00AM – 10:00AM**. Exam questions will involve both mathematical calculations and conceptual explanations and will be based on lectures, material contained in the text, recitations, and homework assignments. Questions pertaining to the grading of exams must be directed to the instructor in writing within 3 days of receiving your graded exam. If you miss an exam for a valid reason, contact the instructor via email within 24 hours to make arrangements for a different, make-up exam. Unexcused absences on exam days will result in a 0%. The lowest of the 3 exam scores will be dropped.

Grades: The course grade will be based on the total points earned on exams, homework, and recitation/participation. The percentage values for each category are shown below:

Exams	1st exam 25% 2nd exam 25% 3rd exam 25% (Two highest exams counted)
Final Exam	25%
Homework	20%
Recitation & Participation	5%
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Total	100%

Miscellanea: Canvas will be used to post useful course materials as well as grades.

Cheating and Plagiarism: UNT's policy on Academic Dishonesty is found at: <https://vpaa.unt.edu/ss/integrity>. Cheating, plagiarism or other forms of academic dishonesty on an exam may result in a grade of zero on the exam, or a reduction in course letter grade. Posting or sharing class assignments, activities, or exam questions outside the class or Canvas system is student misconduct and may lead to disciplinary action.

Disability Accommodation: The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the Office of Disability Accommodation website at <http://www.unt.edu/oda>. You may also contact them by phone at 940-565-4323. *The University of North Texas is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 92-112 – The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act (ADA), pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.*