

Physics 212 – General Physics (with Calculus) – Electricity and Magnetism

Monday, Wednesday 16:40-18:30 (4:40-6:30 pm)

Dr. Derek Nowak

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Office SB2-Room 314, Phone 725-4226

Office Hours: Tuesday and Wednesday 14:00-15:00 (2:00-3:00 pm)

Textbook: Fundamentals of Physics 9th Edition (Standard Version)

Halliday, Resnick and Walker

Tentative Schedule

Date	Reading (Ch. - Sect.)	Assignment - Problems (Ch. - Problem #s)
1/3	Introduction, 21-(1-6)	21 - 6,9,11,24,27
1/5	22-(1-9)	22 - 4,5,11,15,19,39,46,56
1/10	23-(1-5)	23 - 1,7
1/12	23-(6-9)	23 - 17,25,31,36,52,49,69
1/17	Martin Luther King Day, University Closed	
1/19	24-(1-12)	24 - 1,5,14,15,21,39,42
1/24	Finish 24 and Review	
1/26	Exam 1, Ch. 21-24	
1/31	25-(1-8)	25 - 2,3,6,9,23,29,40
2/2	26-(1-7)	26 - 1,5,7,15,18,27,41,56,75
2/7	27-(1-9)	27 - 2,8,21,22,24,33,55,59,64,66
2/9	28-(1-10)	28 - 3,21,23,41,49,50,57
2/14	Review	
2/16	Exam 2, Ch. 25-28	
2/21	29-(1-6)	29 - 1,3,7,35,41,43,51
2/23	30-(1-5)	30 - 4,9,3,15,11,27,29
2/28	30-(6-11)	30 - 37,40,55,53,61,67
3/1	31-(1-11)	31 - 1,9,12,20,25,31,33,45
3/7	32-(1-11)	32 - 11,15,31,41,43,51
3/9	Finish 32 and Review	
3/14	Final Exam, Ch. 29-32 17:30 - 19:20 (5:30 - 7:30 PM)	

Homework:

The homework is designed to help the students apply the concepts from the lecture and to review the covered material. Here are two options for the suggested homework problems:

1. Opt to not turn in any homework problems. In which case, your grade will be calculated based on the three exam scores and any extra credit received.
2. Turn in the suggested homework problems, hand-written by 5:00pm the day after the exam that covered those chapters. Homework will be graded on **completeness** and readability (not correct answers), requiring that you show all of your work. Homework grades greater than 80% will receive a homework grade of 100% with lower scores scaled accordingly (75=95). Your grade will then be calculated based on 85% for exams, 15% for your homework score, and extra credit.

Exams:

The exams will have both conceptual questions and problems: multiple-choice questions (**Scantron Required**) and 4 show-your-work problems (partial credit will be given and you will only be required to answer 3 of your choice). The exams are not comprehensive, but exam 2 and the final exam may include general concepts already covered in previous exams.

Your three exam grades will be weighted as follows:

- 20% (worst exam grade)
- 35% (middle exam grade)
- 45% (best exam grade)

You will need a calculator.

You can bring one piece of paper (8.5" x 11") with **handwritten notes**.

Use of cell phones / computers (other than a calculator) / texting devices, during exams is strictly prohibited, and will not be tolerated.

Missed Exam Policy:

You are required to take all three exams, missing an exam will result in a zero for that exam (preventing any possibility for an A or B+ in the class). To be excused from an exam you must e-mail me in the beginning of the term explaining the scheduling conflict (job-related or family-related). In case of an illness, I expect a doctors note to excuse the absence. If you miss two of the exams, you will be given a grade of "F" for the course. **I do not give make-up exams.**

Extra Credit:

You have to possibility for a **maximum** of 5 extra credit percentage points.

- If you are taking workshop you will receive 3.0 points by passing the workshop.
- There will be five in-class extra credit quizzes each worth 1.0 pt.
- You can correct your errors from exam one and exam two for 2.5 points each.
(Requires that you work out the solutions for the missed multiple-choice and partial credit problems.)

Grading:

Grades will be determined by the following scale:

90% or better is an A-/A 80% to 89% is a B-/B+ 70% to 79% is a C-/C+ 60% to 69% is a D