

Syllabus for General Physics II, PHYS 212X

Fall 2020

Lecture
MWF 5:50-6:50 PM, REIC 201

Laboratory
REIC 257
F01, 74864, W 2:15-5:15 PM
F02, 74865, R 2:15-5:15 PM

- Course:** **PHYS 212X**
- CRN:** 74867 FE1
- Course Type:** In person classroom teaching and Laboratory
- Instructor:** Ataur R. Chowdhury
- Office:** REIC 118
- Office Hours:** MW 4:00-5:30 PM
- Contact:** Phone (907) 474-6109
Fax (907) 474-6130
Email archowdhury@alaska.edu
- Prerequisites:** Concurrent enrollment in MATH 202X; PHYS F211X or ES 208 or concurrent enrollment in ES 210; placement in ENGL F111X or higher; or permission of instructor.
- Texts:** Physics for Scientists and Engineers: A Strategic Approach, Randall D. Knight, 34th Edition, Pearson.
- Course Objectives:** To acquire a basic understanding of (i) the fundamentals of heat and thermodynamics; (ii) the concepts of electricity and magnetism; and (iii)
- Course Outline:** **Heat, temperature, laws of thermodynamics,** ,
Law, electrical potential,

Syllabus

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Course Evaluation:

final, and will be weighted as follows.

Homework	15%
Lab	15%
Paper	10%
Participation	12%
Midterm	2 x 14%
<u>Final</u>	<u>20%</u>
Total	100%

The final grading for this course will be based on a curve. For a given score, your letter grade will not be lower than what it would be expected based on standard grading scale (90-100 = A, 80-90 = B, etc.). Allowed grades are limited to letter grades A,B,C,D,F,I,BN, and no plus-minus grades will be given for this course.

any grade used to indicate that the student has satisfactorily completed (C or better) the majority of work in a course but for the course during the regular semester. Negligence or indifference are not acceptable reasons for

Student Protections and Services:

Because of COVID-19, University has put in place some mandatory procedures to adhere to. All student are encouraged to observe these rules to ensure a safe environment for all of us for a successful fall semester. I request all of you to do the following:

- 1) Wear mask during class,
- 2) Maintain social distancing in class,
- 3) Use designated doors for entering and exiting,
- 4) Try to sit at the same place in class (for tracing),
- 5)

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report it to the appropriate authorities. For more information on your rights as a student and the resources available to you to resolve problems, please go the following site: <http://www.brown.edu/academics/academic-integrity/>

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9	Midterm II	Ch (24-28) 0000912 0 612 792 reW*92 reW
11		Ch 29: sections 4-6
13	electric force and torque	Ch 29: sections 7-10
16	em	Ch 30: sections 1-4
18		Ch 30: sections 5-7
20	induced current, inductors	Ch 30: sections 8-10
	Paper Due	
23	em waves	Ch 31: sections 1-5
25	0000912 0 612 792 reW*92 reW*0.0000912 0 612 792 re2	