

## ***Physics 213 General Physics with Calculus Syllabus, Spring 2021***

Instructor: Daniel Summerton

Lab Instructor: Maggie Greenwood

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Gradescope entry code **WYN7WN**

**Zoom link:** <https://linnbenton.zoom.us/j/2719266016>

**Lab zoom link:** <https://linnbenton.zoom.us/j/95113273967>

Due to the current Covid 19 pandemic Physics 213 will be taught entirely online. The general format of the lecture portion of the class is outlined below.

**Monday:** 5pm lecture covering the week's material will be posted on Moodle. The HIP problem set will be posted as well.

**Wednesday:** I will be hosting a live zoom session to go over questions and manage breakout sessions for group work. The sessions will begin at 5 pm and go till 7 pm. This will be recorded and posted on moodle.

**Thursday:** Lab meetings will be held at 5pm at the LAB zoomlink above.

**Saturday:** Chapter HIP will be due by midnight.

**Sunday:** Moodle Homework will be due by midnight

See the schedule below for further details.

Physics 213 will introduce the topics of the electromagnetic force including static and dynamic systems. Then we will look at electrical circuits including circuits containing capacitors. We will then cover magnetism and its relationship to electrical charge and circuits. The term will conclude with a study of electromagnetic waves.

### **Math requirements for this class and for physics in general**

Math is the language of a large part of what we do in physics. To be able to do well in Physics 213, we've created the following prerequisites for this class:

- Completion of Ph 211 and Ph 212 with a 'C' or better
- Completion of MTH 254 with a grade of a 'C' or better

Physics 213 heavily relies upon mathematics. If you feel yourself getting lost in the math, make sure that you ask for help as quickly as possible.

**Required Materials for the Class:**

Textbook – Knight 4 th Edition “Physics for Scientists and Engineers”

Lab packet from bookstore

Computer and webcam with internet access.

The lab assignment will be available each week at [minirov.info/ph213](http://minirov.info/ph213).

**Grading:**

HIPs: 20%, assigned on Monday of each week. Due on Saturday of each week.

Requirements: Requirements: HIPs must be handwritten, scanned and uploaded to gradescope. All work must be shown to receive full credit. Two late HIPs will be accepted for full credit if less than a week late. Additional late HIPs will receive half credit. HIPs will be graded based on correctness, work shown and legibility. If a problem is unsolvable, an explanation is required.

Labs: 20%:

Moodle Homework: 15%, Homework will have 2 parts every week. Part A will be posted on Moodle by Tuesday. Part B will be posted by Thursday. All homework will be due by Sunday at midnight.

Exams: 45%: Three equally weighted exams will be given, each covering the material since the previous exam. The exams will be Wednesday at 5 pm.

**Grading Scale:**

90%-100%	A
80%-89%	B
70%-79%	C
60%-69%	D
< 60%	F

Other possible grades at LBCC:

I -- Incomplete. An T grade is assigned if for some reason a

student cannot complete all components of the course by the end of the academic term. To receive an T grade, the instructor and student must agree upon a contract that will spell out when Uncompleted work will be turned in.

**Students in need of accommodations:** Students who may need accommodations due to documented disabilities, who have medical information which the instructor should know, or who need special arrangements in an emergency, should speak with the instructor during the first week of class. If you have not accessed services and think you may need them, please contact Disability Services, 541-917-4789.

**Tutoring and Tass sessions:**

link to tutoring page

Link to the LBCC tutoring website:

<https://www.linnbenton.edu/student-services/library-tutoring-testing/learning-center/science-support.php>

TASS with Jenny Saturdays 10am-1pm at <https://linnbenton.zoom.us/j/95113273967>

Science help desk schedule:

<https://docs.google.com/spreadsheets/d/1Y04KQk7HghYha9jLNADrf9y-JHJdNLtrA5LmIrM8YvI/edit?usp=sharing>

29-Mar	31-Mar	1-Apr
Chapter 22 lecture, HIP1 assigned	Chapter 22 discussion	Lab#1
5-Apr	7-Apr	8-Apr
Ch 23 lecture, HIP2 assigned	Chapter 23 discussion	Lab#2
12-Apr	14-Apr	15-Apr
Lecture Ch24, HIP3 assigned	Chapter 24 discussion	Lab#3
19-Apr	21-Apr	22-Apr
Lecture CH25, HIP 4 assigned	<b>EXAM 1,</b>	Lab#4
26-Apr	28-Apr	29-Apr
Lecture ch26, HIP 5 assigned	Chapter 26 discussion	Lab #5
3-May	5-May	6-May
Lecture Ch 27, HIP 6 assigned	Chapter 27 discussion	Lab#6
10-May	12-May	13-May
Lecture Ch 28, HIP 7 assigned	<b>EXAM 2</b>	Lab 7
17-May	19-May	20-May
Lecture CH 29, HIP 8 assigned	Chapter 29 discussion	Lab#8
24-May	26-Jun	27-May
Lecture Ch 30, HIP 9 assigned	Chapter 30 discussion	Lab 9

31-May	2-Jun	3-Jun
Memorial Day, no school	<b>Exam 3</b>	