

PHYSICS 231 Syllabus • Spring 2024 • M_W 8:00 am - 8:50 am in Physics room 415

Course ID in CANVAS "Physics_231_all_sections Spring 2024", Clicker session ID: p231yk

Text book: (ebook with Inclusive access) University Physics Young and Freedman, 15e, with Pearson's Modified Mastering Physics (for HW)

This schedule is tentative and can be updated when necessary (see link below)

Last update February 18, 2024, YK

Instructor Prof. Yuri Kamyshkov, room 505 in Nielsen Physics Bldg, tel: 974-6777, e-mail: kamyshkov@utk.edu; meetings by email appointment

**P231
Spring
2024**

L#	Date		Study/Tests	Material in Class/Test	Home Work is due at 11:59 pm on this date	Labs
x	J22	M	Introduction		No Labs first week Jan 22-26	No labs this week
1	J24	W	Chapter 1	Rules, Policy, Grades.etc.		
2	J29	M	Chapter 1	Units, Vectors, Math refresh	HW #00 Practice. Chapter 1 (not for HW credit)	Electrostatics
3	J31	W	Chapter 21	Electric Charge and Field		Electric Fields
4	F05	M	Chapter 21	Electric Charge and Field		Ohm's Law I
5	F07	W	Chapter 22	Gauss's Law	HW #01 on Chapter 21 due → F07 at 11:59 pm	Electrical Energy
6	F12	M	Chapter 22	Gauss's Law		Ohm's Law II
7	F14	W	Chapter 23	Electric Potential	HW #02 on Chapter 22 due → F14 at 11:59 pm	Wheatstone Bridge
8	F19	M	Chapter 23	Electric Potential		RC Circuits
9	F21	W	Chapter 24	C and dielectrics	HW #03 on Chapter 23 due → F21 at 11:59 pm	No Labs this week
10	F26	M	Review	Electrostatic Ch 21-23		Helmholtz Coils Magnetic Field
11	F28	W	TEST 1	Chapters 21-23		e/m Ratio
12	M04	M	Chapter 24	C and dielectrics	HW #04 on Chapter 24 due → M04 at 11:59 pm	Amper's Law
13	M06	W	Chapter 25	I, R, EMF		RL Circuit
	M11-15	M-F	Spring Break			Makeup Labs
14	M18	M	Chapter 25	I, R, EMF		No Labs this week
15	M20	W	Chapter 26	DC Circuits	HW #05 on Chapter 25 due → M20 at 11:59 pm	
16	M25	M	Chapter 26	DC Circuits		Helmholtz Coils Magnetic Field
17	M27	W	Chapter 27	Magnetic Field and Force	HW #06 on Chapter 26 due → M27 at 11:59 pm	e/m Ratio
18	A01	M	Review	C and DC Ch 24-26		Amper's Law
19	A03	W	TEST 2	Chapters 24-26		RL Circuit
20	A08	M	Chapter 27	Magnetic Field and Force	HW #07 on Chapters 27 due → A08 at 11:59 pm	Makeup Labs
21	A10	W	Chapter 28	Sources of Magnetic Field		No Labs this week
22	A15	M	Chapter 28	Sources of Magnetic Field	HW #08 on Chapters 28 due → A15 at 11:59 pm	
23	A17	W	Chapter 29	Electromagnetic Induction		Helmholtz Coils Magnetic Field
24	A22	M	Chapter 29	Electromagnetic Induction	HW #09 on Chapters 29 due → A22 at 11:59 pm	e/m Ratio
25	A24	W	TEST 3	Chapters 27-29		Amper's Law
26	A29	M	Chapter 30	Inductance L		RL Circuit
27	M01	W	Chapter 31	AC		Makeup Labs
28	M06	M	Chapter 31	AC	HW #10 on Chapters 30 & 31 due → May 06 at 11:59 pm	No Labs this week
-	M08	W	Study Day			
Final	M15	W	FINAL TEST	Wednesday May 15 in 415 from 8:00 am to 10:15 am Comprehensive Test Chapters 21-31		No Labs this week
For HW: follow in CANVAS tab VolBooks Course Materials [VitalSource]				This page: http://web.utk.edu/~kamyshko/P231/Syllabus.pdf		
Final Class Grade: Labs 25%; Home Work 25%; Class Attendance 10%; Tests in Class #1-3 each 8%, Final comprehensive test 16%. Clicker in class = extra 10%						