

MARCH 2020

Sunday	Monday	Tuesday	Wedn	Thursday	Frida	Saturd
1	2	3 Lects. 1-2	4	5 Lects. 3-4	6	7
8 HW#1 due	9 Lects. 5-6 RP: due #0	10 Lects. 7-8	11	12 Lab. #1	13	14
15 HW#2 due	16 Lects. 9-10	17 Lects. 11-12	18	19 Lab. #2	20	21
22 HW#3 due	23 Lect. 13 Study S.	24 Lects. 14 Catch up	25	26 Exam #1	27	28
29	30 Lects. 15-16	31 Lects. 17-18	1	2	3	4

APRIL 2020

Sunday	Monday	Tuesday	Wedn	Thursday	Frida	Saturd
29	30	31	1	2 Lab. #3	3	4
5 HW#4 due	6 Lects. 19-20	7 Lects. 21-22	8	9 SPRING BREAK	10 Good Friday	11
12 Easter Sunday	13	14 SPRING BREAK	15	16 SPRING BREAK	17	18
19 HW#5 due	20 Lects. 23-24	21 Lects. 25-26	22	23 Lab. #4	24	25
26 HW#6 due	27 Lect. 27 Study S. RP: due #1	28 Lect. 28 Catch up	29	30 Exam #2	1	2

MAY 2020

Sunday	Monday	Tuesday	Wedn	Thursday	Frída	Saturd
26	27	28	29	30	1	2
3 HW#7 due	4 Lects. 29-30	5 Lects. 31-32	6	7 Lab. #5	8	9
10 HW#8 due Mother's Day	11 Lects. 33-34	12 Lects. 35-36	13	14 Lab. #6	15	16
17 HW#9 due	18 Lects. 37 Study S. RP: due #2	19 Lects. 38 Catch up	20	21 Exam #3	22	23
24	25 NO CLASSES Memorial Day	26 Lects. 39-40	27	28 Lects. 41-42	29	30
31 HW#10 due	1	2	3	4	5	6

JUNE 2020

Sunday	Monday	Tuesday	Wedn	Thursday	Frida	Saturd
31 HW#10 due	1 Lects. 43-44 RP: Article submission	2 Lects. 45-46	3	4 Lects. 47-48	5	6
7 HW#11 due	8 RP: Oral Presentation	9 Study S. Catch up	10	11 Exam #4	12	13
14	15	16	17	18	19	20
21 Father's Day	22	23	24	25	26	27
28	29	30	1	2	3 Indepen dence Day Holiday	4 Independe nce Day

- Lect. #01:** Introduction. Wave motion.
- Lect. #02:** Wavelength, frequency, speed of wave.
- Lect. #03:** Wave speed on a stretched string.
- Lect. #04:** Interference. Standing waves.
- Lect. #05:** String with fixed ends.
- Lect. #06:** Sound waves. Speed of sound.
- Lect. #07:** Intensity and sound level.
- Lect. #08:** Doppler effect.
- Lect. #09:** Electric charge. Conductors and Insulators.
- Lect. #10:** Coulomb's law. Examples.
- Lect. #11:** Electric field. Lines of Electric field.
- Lect. #12:** Electric field due to a charge distribution.

- Lect. #13:** Gauss's law.
- Lect. #14:** Gauss's law. Examples.
- Lect. #15:** Applying Gauss's law. Superposition principle.
- Lect. #16:** Conductors. Potential energy and electric potential.
- Lect. #17:** Potential due to a charge distribution.
- Lect. #18:** Equipotential surfaces. Relationship between E and V.
- Lect. #19:** E-field and electric potential - overview. Examples.
- Lect. #20:** Capacitance. Charge and Energy stored.
- Lect. #21:** Parallel plate capacitors. Dielectric constant.
- Lect. #22:** Current. Ohm's law. Resistance. Power.
- Lect. #23:** Resistors in parallel and series.
- Lect. #24:** Effective resistance. Real battery.

- Lect. #25:** Kirchoff's rules.
- Lect. #26:** Kirchoff's rules.
- Lect. #27:** Capacitors in parallel and series.
- Lect. #28:** RC circuits.
- Lect. #29:** RC circuits: charging and discharging.
- Lect. #30:** Magnetic field. Magnetic force on moving charges.
- Lect. #31:** Magnetic force on wires carrying current.
- Lect. #32:** Motion of charged particles in B- and E-fields.
- Lect. #33:** Ampere's law.
- Lect. #34:** Magnetic field due to currents.
- Lect. #35:** Electromagnetic induction.
- Lect. #36:** Faraday's law.
- Lect. #37:** Lenz's law.

- Lect. #38:** Generators. Motors.
- Lect. #39:** Transformers. Inductance.
- Lect. #40:** Energy stored in B-field. RL circuits.
- Lect. #41:** RL, LC, and RLC circuits.
- Lect. #42:** AC circuits with R and L.
- Lect. #43:** AC circuits with C. RLC circuits.
- Lect. #44:** RLC circuits. Resonance.
- Lect. #45:** Maxwell's equations. Displacement current.
- Lect. #46:** Electromagnetic waves. Plane waves. Speed and Spectrum.
- Lect. #47:** Electromagnetic waves: Reflection and Refraction.
- Lect. #48:** Electromagnetic waves: Total internal reflection.