March 2021

Sunday	Monday	Tuesday	Wednes	Thursday	Friday	Saturda
	1	**2**	**3**	**4**	**5**	6
7	**8**	**9** **Lects.** **1-3**	**10**	**11** **Lects.** **4-6**	**12**	13
14 **HW#1 due**	**15**	**16** **Lects.** **7-9**	**17** Last day to drop for 50% Tuition Refund	**18** **Lect. 10** **Lab. #1**	**19**	20
21 **HW#2 due**	**22**	**23** **Lects.** **11-13**	**24**	**25** **Lect. 14** **Lab. #2**	**26**	27
28 **HW#3 due**	**29** **SPRING BREAK**	**30** **SPRING BREAK**	**31** **SPRING BREAK**	**1** **SPRING BREAK**		

April 2021

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

May 2021

Sunday	Monday	Tuesday	Wednes	Thursday	Friday	Saturda
						1
2 **HW#6 due**	**3**	**4** **Lects. 29-31**	**5**	**6** **Lect. 32** **Lab. #6**	**7**	8
9 **HW#7 due** Mother's Day	**10**	**11** **Lects. 33-35**	**12**	**13** **Lects. 36-38**	**14**	15
16 **HW#8 due**	**17**	**18** **Lects. 39,40** **Study S**	**19**	**20** **Catch up** **Exam #2**	**21**	22
23 **HW#9 due**	**24**	**25** **Lects. 41-43**	**26**	**27** **Lect. 44** **Lab. #7**	**28**	29
30 **HW#10 due**	**31** Memorial Day					

June 2021

Sunday	Monday	Tuesday	Wednes	Thursday	Friday	Saturda
		1 Lects. 45-47	2	3 Lects. 48-50	4	5
6 HW#11 due	7	8 Reading Day	9	10 Study S Catch up	11	12
13	14	15 Exam #3	16 Grades Due by 4 pm	17	18	19
20 Father's Day	21	22	23	24	25	26
27	28	29	30			

Lec. #01: Introduction. Wave motion.
Lec. #02: Wavelength, frequency, speed of wave.
Lec. #03: Wave speed on a stretched string.
Lec. #04: Interference. Standing waves.
Lec. #05: String with fixed ends.
Lec. #06: Sound waves. Speed of sound.
Lec. #07: Intensity and sound level.
Lec. #08: Doppler effect.
Lec. #09: Electric charge. Conductors and Insulators.
Lec. #10: Coulomb's law. Examples.
Lec. #11: Electric field. Lines of Electric field.
Lec. #12: Electric field due to a charge distribution.
Lec. #13: Conductors. Potential energy and electric potential.
Lec. #14: Potential due to a charge distribution.
Lec. #15: Equipotential surfaces. Relationship between E and V.
Lec. #16: Capacitance. Charge and Energy stored.
Lec. #17: Parallel plate capacitors. Dielectric constant.

Lec. #18: Current. Ohm's law. Resistance. Power.
Lec. #19: Resistors in parallel and series.
Lec. #20: Effective resistance.
Lec. #21: Kirchhoff's rules.
Lec. #22: Kirchhoff's rules.
Lec. #23: Capacitors in parallel and series.
Lec. #24: RC circuits: charging and discharging.
Lec. #25: Magnetic field.
Lec. #26: Magnetic force.
Lec. #27: Ampere's law.
Lec. #28: Current loops.
Lec. #29: Magnetic flux. Induced emf.

Lec. #30: Faraday's law and Lenz's law.
Lec. #31: Faraday's law and Lenz's law.
Lec. #32: Generators and Motors.
Lec. #33: Transformers. Inductors.
Lec. #34: Energy stored in B-filed. RL circuits.

Lec. #35: AC circuits. AC with R; AC with L; AC with C.
Lec. #36: Electromagnetic waves. Plane waves. Speed and Spectrum.
Lec. #37: Interference. Double-Slit Interference.
Lec. #38: Diffraction. Thin films.
Lec. #39: Special relativity. Historical introduction and the main experiments.
Lec. #40: Time dilation effect. Moun experiment.
Lec. #41: Length contraction.
Lec. #42: Relativistic energy and momentum. Rest energy and $m=E_0/c^2$.
Lec. #43: Blackbody Radiation. Stefan–Boltzmann laws.
Lec. #44: Wien's displacement. Photoelectric effect.
Lec. #45: Photons (energy and momentum).
Lec. #46: Particle-wave duality. De Broglie wavelength.
Lec. #47: Bohr model. Hydrogen Spectrum. Emission of light.
Lec. #48: Nuclear structure. Nuclear Notations. Nuclear reactions (notations).
Lec. #49: Half-life and radioactive dating.
Lec. #50: Nuclear binding energy. Fission, fusion nuclear reactions (energy released).