

Physics 4B Schedule (Fall 2022)

| <u>Week</u> | <u>Dates</u> | <u>Topics</u> | <u>Chapter</u> | <u>Lab</u> |
|-------------|-------------------|---|----------------|---|
| 1 | Aug. 29 – Sept. 2 | Charge & Coulomb's Law | 21 | Electric Charge |
| 2 | Sept. 5 – 9 | Electric Fields | 22 | No Lab – Labor Day |
| 3 | Sept. 12 – 16 | Electric Fields; Gauss' Law | 22, 23 | Circuit Tools |
| 4 | Sept. 19 – 23 | Gauss' Law; Electric Potential | 23, 24 | Electric Field Mapping |
| 5 | Sept. 26 – 30 | Electric Potential; Capacitance | 24, 25 | Ohm's Law |
| 6 | Oct. 3 – 7 | Capacitors <i>Review for Celebration 1</i> | 25 | Capacitors |
| 7 | Oct. 10 – 14 | Current and Resistance | 26 | Celebration 1 – October 10th |
| 8 | Oct. 17 – 21 | Circuits | 27 | Series and Parallel Resistors |
| 9 | Oct. 24 – 28 | Circuits; Magnetic Fields | 27, 28 | RC Circuits |
| 10 | Oct. 31 – Nov. 4 | Magnetic Fields Magnetic Fields due to Currents | 28, 29 | Magnetic Forces |
| 11 | Nov. 7 – 11 | Magnetic Fields due to Currents <i>Review for Celebration 2</i> | 29 | TBA |
| 12 | Nov. 14 – 18 | Inductors and Inductance | 30 | Celebration 2 – November 14th |
| 13 | Nov. 21 – 25 | Inductance; EM Oscillations | 30, 31 | Induction and RL Circuits |
| 14 | Nov. 28 – Dec. 2 | Alternating Current | 31 | Frequency Response to RLC |
| 15 | Dec. 5 – 9 | RLC Circuits <i>Review for Final</i> | 31 | Mystery Circuits |
| 16 | Dec. 12 – 16 | Final Celebration Monday (12/12) 10:00 am – 12:50 pm | 21-31 | |