

PHYS 235 Spring 2009

Schedule for Unit 1: Passive Linear Circuits (and diodes)

Date	Topic	Suggested Problems
Jan. 15	Lecture 1 — Charge/Current/Voltage; Ohm's Law Lab 1 — Test Equipment/Ohm's Law	1–3
Jan. 20	Lecture 2 — DC Circuits & Kirchoff's Laws; Power Lab 2 — Kirchoff's Laws & Wheatstone Bridges	4–16
Jan. 22	Lecture 3 — Equivalent Circuits; Power Lab 3 — Voltage Dividers; Equivalent Circuits	17–24
Jan. 27	Lecture 4 — Capacitors; Simple RC Circuits Lab 4 — RC Circuits: Transient Response	25–29
Jan. 29	Lecture 5 — AC Circuits; Two-Port Networks Lab 5 — RC Circuits: Low- and High-Pass Filters	30–38
Feb. 3	Lecture 6 — Inductors; RLC Circuits; Resonance Lab 6 — RLC Circuits: Resonance	39–43
Feb. 5	Lecture 7 — Intro. to semiconductors; Diodes Lab 7 — Diodes; DC Power Supplies	44–51
Feb. 10	Exam I	