

PHYSICS CS 34, Fall 2014

HR&K, 5th ed.

Purcell&Morin, 2013

Ch. 25 Coulomb's law
Ch. 26 The electric field
Ch. 27 Gauss' law

Ch. 28 Electric potential

Ch. 30 Capacitors and dielectrics

Ch. 29 Current and resistance
Ch. 31 DC circuits

Ch. 32 The magnetic field
Ch. 33 The magnetic field of a current.

Ch. 33 Ampère's law and Biot-Savart law

Ch. 1 Electrostatics: charges and fields

Ch. 2 The electric potential
Ch. 1 Electric field energy

Ch. 3 The electric field around conductors
Ch. 10 Electric fields in matter

Ch. 4 Electric currents

Appendix G: A short review of special relativity
Ch. 5 The fields of moving charges
Ch. 6 The magnetic field.

Ch. 6 Ampère's law. Vector potential

There could be extra lecture(s) (to be announced): To make up for Thanksgiving Holiday and the last week of classes (oral reviews).

Good Luck, Dr. B