Physics 5406: Classical Electromagnetism II
Spring 2023
Tentative Syllabus

Jan 18-25: Maxwell’s equations (Jackson ch 6)
Jan 30 - Feb 8: Plane electromagnetic waves (Jackson ch 7)
Feb 13-20: Waveguides, resonant cavities (Jackson ch 8)
Feb 22: Test 1
Feb 27 - Mar 15: Radiating systems, multipole fields (Jackson ch 9)
Mar 6-10: Spring break
Mar 20 - Apr 3: Scattering and diffraction (Jackson ch 10)
Apr 5: Test 2
Apr 10-12: Special theory of relativity (Jackson ch 11)
Apr 17-19: Dynamics of relativistic particles (Jackson ch 12)
Apr 24-26: Scattering of charged particles, Cherenkov radiation (Jackson ch 13)

All dates are approximate; time spent on any topic will be adjusted to the backgrounds of the enrolled students.