Physics 5406: Classical Electromagnetism II
Spring 2022
Tentative Syllabus

Jan 19-26: Maxwell’s equations (Jackson ch 6)
Jan 31 - Feb 9: Plane electromagnetic waves (Jackson ch 7)
Feb 14-21: Waveguides, resonant cavities (Jackson ch 8)
Feb 23: Test 1
Feb 28 - Mar 16: Radiating systems, multipole fields (Jackson ch 9)
Mar 5-9: Spring break
Mar 21 - Apr 4: Scattering and diffraction (Jackson ch 10)
Apr 6: Test 2
Apr 11-13: Special theory of relativity (Jackson ch 11)
Apr 18-20: Dynamics of relativistic particles (Jackson ch 12)
Apr 25-27: 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.