ECE 561 – 3 Credit Hours
Prerequisite: ECE 360 – Electromagnetics and ECE 595 – Foundations of Engineering Electromagnetics (which will be ECE 555 in the next UNM Course Catalog)
Prof. Edl Schamiloglu – edl@ece.unm.edu


Electrodynamics covers Chapters 1-6 and Section 8.7 in Balanis’s book, with some additional supplemental material.
- Review of Maxwell’s Equations and EM fundamentals
- Electrical properties of materioals
- The wave equation and solutions
- Wave polarization in isotropic media
- Polarization
- Reflection and Transmission
- Electromagnetic vector potentials and radiation integrals
- Wave propagation in anisotropic materials and metamaterials
- Periodic structures
- Dielectric slab waveguides

A comprehensive syllabus will be posted on this website by late December.