## Physics 804 - Classical Electrodynamics II Dr. Ian Balitsky, Spring 2022

- 1. Information:
  - E-mail address: IBalitsk@odu.edu
  - Office hours: TBA.
- 2. Textbook:
  - J.D. Jackson, *Classical Electrodynamics*, 3rd ed., (John Wiley and Sons, 1998) chapters 6-9, 11.
- 3. Reference Textbooks:
  - D.J. Griffiths Introduction to Electrodynamics, 3rd ed.
  - W. Greiner Classical Electrodynamics.
- 4. Grade (out of 100%):
  - Homework: 34%
  - Midterm 1 : 16%
  - Midterm 2 : 16%
  - Final (comprehensive): 34%
- 5. Outline of the couse:
  - Electrodynamics: Maxwell equations and conservation laws
  - Plane electromagnetic waves and wave propagation
  - Wave guides and resonant cavities
  - Radiating systems, multipole fields and radiation
  - Special theory of relativity