



**Web:** The website for this class is <http://users.wfu.edu/ecarlson/eandm/index.html>. I hope to post almost all materials for the class on the web, but this will depend on how much I can keep up with my intended schedule

**Tentative Schedule:**

|            |    |                  |  |
|------------|----|------------------|--|
| January    | 13 | 15               | Introduction, electrostatics                       |
| January    | 20 | 24               | Boundary-Value Problems in Electrostatics          |
| January    | 25 | 27 29            | Boundary-Value Problems in Electrostatics          |
| February   | 1  | 3 5              | Multipoles and Electrostatics of Macroscopic Media |
| February   | 8  | 10 12            | Magnetostatics                                     |
| February   | 15 | 17 <del>19</del> | Magnetostatics (class cancelled on Feb. 19)        |
| February   | 22 | 24 26            | Maxwell Equations and Macroscopic Electromagnetism |
| Feb/March  | 29 | 2 <b>4</b>       | Review, <b>Midterm Exam</b>                        |
| March      | 14 | 16 18            | Plane Electromagnetic Waves                        |
| March      | 21 | 23               | Waveguides and Resonant Cavities                   |
| March/Apr. | 28 | 30 1             | Radiating Systems and Radiation                    |
| April      | 4  | 6 8              | Scattering and Diffraction                         |
| April      | 11 | 13 15            | Special Theory of Relativity                       |
| April      | 18 | 20 22            | Dynamics of Relativistic Particles                 |
| April      | 25 | 27 <b>29</b>     | Review, <b>Final Exam</b>                          |