**PHYSICS 110** **Approximate Schedule** **Fall 2018**

Shown below is a general outline of topics. All chapter numbers are from the 4th edition of Griffiths's *Intro to Electrodynamics* text. Homework problems will be assigned each day. I'll keep a more specific schedule on the web page as we go.

| Week | Tuesday | Chapter | Topic |
|---|---|---|---|
| 1 | 8/28 | Chapter 1 | Intro, Phys 3 review, Math review |
| 2 | 9/4 | Chapters 1,2.1 | Coulomb's Law, more math |
| 3 | 9/11 | Chapter 2 | Gauss's Law, Potential |
| 4 | 9/18 | Chapter 2, 3 | Conductors, Laplace's Eq |
| 5 | 9/25 | Chapter 3 | Method of images |
| | | | **Exam 1** Thursday 9/27 |
| 6 | 10/2 | Chapter 3 | Separation of variables, Multipole Expansion |
| 7 | 10/9 | Chapter 4 | E fields in matter, polarization |
| 8 | 10/16 | Chapter 4 | Electric displacements, dialectrics |
| | | | **Fall Break** No class Thursday 10/18 |
| 9 | 10/23 | Chapter 5 | Lorentz Force Law, Biot-Savart Law |
| 10 | 10/30 | Chapter 5 | Ampere's Law, Vector potential |
| 11 | 11/6 | Chapter 6 | Magnetization |
| | | | **Exam 2**, Thursday 11/8 |
| 12 | 11/13 | Chapter 7 | emf |
| 13 | 11/20 | Chapter 7 | EM induction, Maxwell's equations |
| | | | **Thanksgiving Break** No class Thursday 11/21 |
| 14 | 5/15 | Chapter 7 | Maxwell's Eqs, Review |

**Final Exam: Tuesday, December 4, 10:30am-12:30pm**