



PHYS 1444 – Section 002

Lecture #1

Tuesday Jan 18, 2007

Dr. **Andrew Brandt**

1. Syllabus and Introduction
2. Chapter 21
 - Static Electricity and Charge Conservation
 - Charges in Atom, Insulators and Conductors
&
Induced Charge
 - Coulomb's Law

Please turn off your cell-phones, pagers and laptops in class

Thanks to Dr. Yu for bringing this class into 21st Century!



Who am I?

- Name: **Andrew Brandt** (You can call me **Dr. Brandt**)
- Office: Rm 344, CPB (Physics and Chemistry Building)
- Extension: x2706, E-mail: brandta@uta.edu
- Education: B.S. Physics/Economics College of William and Mary 1985; Ph. D. 1992 UCLA
- My Research Area: High Energy Physics (HEP) aka Particle Physics
 - Collide particles (protons and protons or anti-protons) at energies equivalent to ~100 Quadrillion degrees
 - To understand
 - Fundamental constituents of matter
 - Interactions or forces between the constituents
 - A pure scientific research activity
 - No direct applications
 - Indirect applications are myriad: electricity, nuclear power, lasers, radar, internet, I-pod, I-pad, Smart phones, all of technology



Structure of Matter

