

# PHYS 1443 – Section 501

## Lecture #26

Monday, May 3, 2004  
Dr. Andrew Brandt

1. Waves
2. Sinusoidal Waves
3. Rate of Wave Energy Transfer
4. Reflection and Transmission
5. Superposition and Interference



# Announcements

- On May 5, I will answer any questions that you may have on any of the material. If you have none it will be a short class—if you can use the time better with independent study that's fine
- Final exam will be Monday May 10 @5:30. It will be multiple choice only, so bring a Scantron form. It will be comprehensive, perhaps with a little more emphasis on ch 10-14.



# Waves



- Waves are closely related to vibrations.
- Mechanical waves involve oscillations of a medium and carry energy from one place to another

- Two forms of waves

- Pulse
- Continuous or periodic wave

- Wave can be characterized by

- Amplitude
- Wave length
- Period

- Two types of waves

- Transverse Wave
- Longitudinal wave
  - Sound wave

