Physics 121 – October 3, 2017

Announcements:

Midterm on Thursday, Oct 12 Practice Exam (pdf copy) on class website Office hours change: Thur 2-3, Fri 1-3 pm

Assignments:

This week:

- Finish reading Chapter 7 of textbook; read Chap 8 up to section 8.3 (we'll cover 8.4-8.5 *after* the midterm exam)
- Complete ETA Problem Set #7 and Chap 7 written problems #34, 50, 54, 72, and Chap 8- #23, 36, 42
- Quiz in recitation this week plus practice problems in recitation: Chap 7- #29, 51, 60, 76, and Chap 8- #40, 41

Topics to know for this week's quiz:

- Draw a Free Body Diagram (FBD), identifying all forces
- Forces: tension, gravitational, spring, friction, normal
- Components of forces, dealing with off-axis forces (as in ramps, things hanging from ropes, etc.)
- Newton's 2nd law

$$\vec{F}=m\vec{a}$$
, $\Sigma F_{\chi}=ma_{\chi}$ $\Sigma F_{y}=ma_{y}$

Topics for today:

- Work, definition and examples
- Kinetic energy
- Using work-kinetic energy theorem to solve problems