

PHYS 1443 – Section 001

Lecture #1

Monday, June 6, 2011

Dr. **Jaehoon Yu**

- Class Introduction
- Standard and units
- Dimensional Analysis
- Fundamentals
- One Dimensional Motion: Average Velocity; Acceleration; Motion under constant acceleration; Free Fall

Today's homework is homework #1, due 10pm, Wednesday, June 8!!



Announcements

- Reading assignment #1: Read and follow through all sections in appendices A and B by Wednesday, June 8
 - There will be a quiz this Wednesday, June 8, on this reading assignment



Special Problems for Extra Credit

- Derive the quadratic equation for $Bx^2 - Cx + A = 0$
□ 5 points
- Derive the kinematic equation $v_{xf}^2 = v_{xi}^2 + 2a_x(x_f - x_i)$
from first principles and the known kinematic
equations □ 10 points
- You must **show your work in detail** to obtain full
credit
- Due at the start of the class, Thursday, June 9

