

## Lecture 7

### Pre-Lecture Preparation:

- Read pages 143 – 159
- Optional: Read pages 159 – 163 (interesting overview of forces)
- Do problems MECH\_11 and MECH\_12 on this PDF:  
[http://www.foothill.edu/~cascarano/video\\_images/video\\_mechanics\\_problems.pdf](http://www.foothill.edu/~cascarano/video_images/video_mechanics_problems.pdf)  
If needed, watch the solution videos here:  
MECH\_11 solution part 1: <https://www.youtube.com/watch?v=kBDDrQib-3o&feature=youtu.be>  
MECH\_11 solution part 2: <https://www.youtube.com/watch?v=yTeed0yi3QQ&feature=youtu.be>  
MECH\_12 solution: <https://www.youtube.com/watch?v=5x0jVCY25wg&feature=youtu.be>
- Do the Conceptual Questions (p. 167): 21

### Goals for the Lecture:

- 1) Use Newton's Second Law to solve motion problems, including:  
multiple objects, incline planes, friction, pulleys, and ropes

### Post-Lecture Study Guide:

Review the worksheets or other lecture material within 24 hours (preferably the same day as the lecture) to reinforce the ideas

Do problems:

Ch 4: Conceptual Questions: 22

Ch 4: Problems and Exercises: 19 and 20

Continue with the additional recommended study problems from chapter 4