Lecture Topics to be very familiar with:
How aerosols affect temperature
How aerosols affect clouds
Sea Level Rise

1. List the two factors that contribute to sea level rise in a warming climate, and describe how they do so.

2. What is an aerosol, about how big are they? List 4 different types of aerosol and their source.

3. Describe the two ways aerosols can effect climate. Be sure to mention if they warm or cool the Earth and HOW they do it.

Questions from Reading (Chapter 14)

1. What happens to solar radiation after it reaches Earth? How do greenhouse gases warm the lower atmosphere?

2. Why is carbon dioxide considered the main greenhouse gas? Why are carbon dioxide concentrations increasing in the atmosphere?

3. How do scientists study the ancient atmosphere? Describe what a proxy indicator is, and give examples.

4. List five major trends in climate that scientists have documented so far.

5. Now list five future trends that scientists are predicting, along with their potential impacts.

6. Describe how rising sea levels, caused by global warming, can create problems for people. How many climate change affect marine ecosystems.

7. How might a warmer climate affect agriculture? How is it affecting distributions of plants and animals? How might it affect human health?

8. What are the largest two sources of greenhouse gas emissions in the United States? In what ways can we reduce these emissions?

9. What roles have international treaties played in addressing climate change? Give specific examples.

10. Describe one market-based approach for reducing greenhouse emissions. Explain one reason it may work well and one reason it may not work well.