1. Read sections 2.1-2.5 in Peskin/Hoppensteadt and do problems 2.1, 2.2, 2.4, 2.5 in the end of chapter 2 (p. 107).

2. Breathing and respiration in mammals is driven by three groups of muscles: intercostal muscles, thoracic diaphragm and smooth bronchial muscles. Find out the functions of each of these muscles and how they aid breathing and respiration. Write a couple of paragraph summary of your findings (on a separate but related note, find out what causes asthma, and also research a relatively new treatment for severe asthma, called bronchial thermoplasty - Morning edition on NPR ran an interesting story about bronchial thermoplasty a few days ago.)

3. Read sections 2.6, 2.7 in Peskin/Hoppensteadt and attempt problem 2.6 in the end of chapter 2 (p. 108).