Cardiovascular Biomechanics
Guidelines for Initial Presentation

10 minute presentation (~ 10 slides)
Each member of multiple groups must present

1) **Overview** of anatomy, physiology, clinical/biological relevance (~ 3 slides)
   a. Where is it located, how does it work, why is it important to study it both from a clinician’s perspective and an engineer’s perspective

2) How will you **approach** this problem? (~ 5 slides)
   a. What is (are) the question(s) you wish to answer.
   b. Simplifications and assumptions and suitability of your approach.
   c. Based on the above two, what are your goals for the work over the semester?
   d. Divide and conquer (for group presentations)
      i. State clearly what each group member will be doing
         1. I will grade each member based on a combination of the group’s work and the individual work.
   e. State clearly how you will decide whether you have accomplished your goals.
   Examples of waffle (not what you want to do) and more useful approaches…
      i. Waffle: “We will examine this and see what we get”
      ii. Waffle: “Our results will be compared to experimental data”
         1. No details – what will be compared, how will the comparison be done, etc.
      iii. More useful: “Stress at point X will be calculated from the analytical model and compared to equivalent values obtained from the literature. The % difference will be quantified. % difference values of < 1% will indicate agreement to reported data”
      iv. More useful: “The range of Young’s modulus values will be varied ± 25% over a mean value obtained from literature sources and the % change in mean displacement as a function of Young’s modulus will be analyzed using linear regression”

3) **Literature review** (~ 2 slides)
   a. Are there review articles about various portions of your topic?
   b. Briefly summarize (2 slides) two articles related to your topic.
   c. Cite all articles in scientific format.