AUDIT LAB GRADING RUBRIC (The audit lab will be worth 65 points)

+ 7 points Apparatus Section. Be sure to include diagrams and describe the envelope of your living area for your audit.

+ 17 points Theory Section. Be sure to define: Conduction, R-Value, the Conduction Equation with units (for part A); Convection, Infiltration, # of Air Changes, the Infiltration Equation with units (for part B); Radiation, Solar-Gain or Insolation, the Solar-Gain Equation with units (for part C); Net Heat (A + B – C); Degree Days, the Evaluating Factor, the Average Evaluating Factor for MN. The development for the Theory section should be in paragraph form, linear development, and “carry the reader along”—namely good “flow.”

+7 points Procedure Section.

+25 points. DATA and Calculations Section may be combined. Again maintain good flow and carry the reader along.

+5 points. Results section. What were your results for part A, B, C, and D. What was your final Evaluating Factory and how does it compare to the MN Average (better or worse).

+ 4 points. Sources of error (+2 points) for instrumental error and (+2 points) for inherent error. (Note: a major inherent error was your air change estimate which hopefully you discussed under the procedure section.)