The following set of instructions are an optional replacement for the “Dimensioning in SolidWorks Part 2”. This demo should help prepare the students for the Out of Class HW.

**Student + Instructor:**

**Overall strategy for SolidWorks Dimensioning Demo Part 2:**

I. First open and review in detail each of the guidelines from the Basic Guidelines for Good Dimensioning document located on the SW-9 EEIC website.

II. Second, use this document to demonstrate the applicable guidelines for each of the dimensions on the completed dimensioning problem from SolidWorks-8 Caution: Open both the SLDPRT and SLDDRW files located in SolidWorks-9 under Instructor’s Demo.

III. Third, use the Dimensioning Demo A PowerPoint presentation where the instructor waits for student responses for each of the posed questions in the PowerPoint Slide show presentation.

IV. Finally use the Dimensioning Demo B PowerPoint presentation where the instructor waits for student responses for each of the posed questions in the PowerPoint Slide show presentation.
ITEM II.

Demo to Show Applicable Guideline on SW-6 Dimensioning
Problem to be used following the review Basic Guidelines for Good

1. Step through each of the Overall Sizing dimensions shown below and indicate which rules apply to each dimension while placing your mouse cursor on that dimension, highlighting the location by selecting the Ctrl key on the keyboard.

G2. – Place in most descriptive view
G8B. – Radii use ‘R’ symbol

OBJECT IS SYMMETRICAL LEFT TO RIGHT
AND FRONT TO BACK
2. Step through each of the Size and Locate the Holes dimensions shown below and indicate which rules apply to each dimension while placing your mouse cursor on that dimension, highlighting the location by selecting the Ctrl key on the keyboard.

G2. – Place in most descriptive view
G6. – Symmetry note [no 2 X Ø.75]
G8A. – Diameters use ‘Ø’ symbol
G9B. – Negative cylinders ⇔ circles

OBJECT IS SYMMETRICAL LEFT TO RIGHT AND FRONT TO BACK
3. Step through and explain each of the Size and Locate the Feature dimensions shown below and indicate which rules apply to each dimension while placing your mouse cursor on that dimension and high-lighting the location by selecting the Ctrl key on the keyboard.

G2. – Place in most descriptive view
G8A. – Diameters use ‘Ø’ symbol
G9A. – Positive cylinders ↔ rectangles

- Place in most descriptive view
- Diameters use ‘Ø’ symbol
- Positive cylinders ↔ rectangles

OBJECT IS SYMMETRICAL LEFT TO RIGHT AND FRONT TO BACK

The Ohio State University
First Year Engineering

Dwg. Title: BRACKET
Scale: 1:2
Inst. DR. WHO
Units: INCH
Dwg. No.: 01

Drawn By: STUDENT NAME
Hour: XX
Seat: XX
Date: 10/17/14
4. Step thorough and explain each of the Guideline summary items shown below while placing your mouse cursor on that portion of the dimensioned drawing and highlighting the location by selecting the Ctrl key on the keyboard.

Note that none of the 10 Guidelines were violated

- The Height could have been placed in the Front View, but it is better in the Side View since it is closer to the described feature (Height).
- Clear dimensions were placed within the View boundaries and were aligned and grouped and not placed on the object. Object was not over or under dimensioned. Scale note present.
- Hidden Lines and Center Lines were not used in dimensioning and all Center marks present.

After completing the above demo, the instructor completes the Dimensioning Demo A and Dimensioning B PowerPoint presentations per the instructions on the first page of this document.