**CHECKSHEET FOR PRE-CAD AND TECHNICAL DRAWINGS ASSIGNMENT (HW3)**

**(Submit this sheet as your assignment coverpage)**

/10

NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SECTION #: \_\_\_\_\_

**Pre-CAD Final Products**

\_\_\_ Inclusion of photo of part/object selected for the assignment (1/2 pt)

\_\_\_ Inclusion of bulleted list of feature creation steps

\_\_\_ Identified sketch plane and 2D sketch profile for 3 primary features

\_\_\_ 2D sketches show consistent x-y-z-coordinate frames (location and orientation)

(1/2 pt)

**Technical Drawing Final Products**

\_\_\_ Uses good drawing practices (straight edge/compass, line weights, scaling, etc.)

\_\_\_ Appropriate number/orientation/alignment of orthographic views (communicates design intent)

**\_\_\_ Inclusion of construction lines, important hidden lines, center marks, and centerlines (where appropriate)** (1/2 pt)

**\_\_\_ Inclusion of 5-6 key dimensions** (1/2 pt)

**\_\_\_ Consistent labeling of x-y-z-coordinate frames between views (position and orientation)** (1/2 pt)

Point Deductions

\_\_\_ No cover page *(-1)*

\_\_\_ Incorrect filename *(-1)*

**\_\_\_** Attempted **isometric view**

**\_\_\_ A completed title block** (1/2 pt)

**Above and Beyond (Exemplary)**

\_\_\_ Exceptional overall neatness/clarity of text/insightful assumptions or challenges

\_\_\_ Well-drawn isometric view

\_\_\_ Other:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Note: Include the coverpage as sheet 1 of your submission followed by your pre-CAD plan and your drawing. This assignment can be submitted as either a Word doc or a pdf.

To get coversheet, pre-CAD plan, and drawing in the same file, you can do one of the following:

1. Print the cover page to scan it along with your pre-CAD plan and drawing using Adobe Scan (or similar),
2. Save the coverpage as a pdf, scan your pre-CAD and drawing, then use a pdf editor to merge the two files into a single pdf, or
3. Scan your pre-CAD and drawing, then display it on your computer so you can use the built-in Snipping Tool in windows (shift + window + S) to copy your drawing and paste it into the corresponding section of this Word file.

Save your submission as “*HW3\_Firstname Lastname”* and upload your completed assignment to your “01\_Submitted” folder.

# Pre-CAD Final Products -- (use the Pre-CAD template or create your own but keep text brief)

**Initial Assumptions:**

**Bulleted Feature Creation Steps (Ex: 1. Top plane Extrude Boss; 2. Right plane Revolve Cut; 3. Face Chamfer; 4. Pattern; 5. Mirror about new Plane 1):**



2D Sketch(es) from 1st primary feature

**More Details on Primary Features**

**From Step (#):  *\_\_\_\_\_\_***

Sketch Plane: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3D Feature type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Feature Details (dimensions/end conditions):

2D Sketch(es) from 2nd primary feature

**From Step (#): *\_\_\_\_\_\_***

Sketch Plane: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3D Feature type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Feature Details (dimensions/end conditions):

**From Step (#):  *\_\_\_\_\_\_***

2D Sketch(es) from 3rd primary feature

Sketch Plane: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3D Feature type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Feature Details (dimensions/end conditions):

**Potential Challenges:**

# Technical Drawing Final Products -- (use the [ME Dept. Drawing Template with grid](https://www.webpages.uidaho.edu/mindworks/Solidworks/Course%20Resources/ME%20Dept.%20Drawing%20Template%20with%20grid%20.PDF))

