Objective

- Demonstrate the ability to create a simple model of a known object within OnShape without step-by-step instructions.
- Demonstrate the ability to create a simple model of a known object within OnShape that meet a specified design need.

Assignment

Create a 3D model, using OnShape, of a coffee mug.

- The coffee mug shall hold 16 ounces of coffee.
- The coffee mug shall have a handle.

Capture the primary features early in the design tree.
Include fillets, chamfers, etc. as necessary for ergonomics, manufacturing, stress concentration etc. Write a single page discussing and justifying your model’s features, function, form, modeling organization. Include an image of the measurement of the volume using OnShape.

Some suggested tutorials:

1) CAD Basics
   a. https://learn.onshape.com/learn/learning-path/introduction-to-cad

2) Onshape Fundamentals: CAD
   a. https://learn.onshape.com/learn/learning-path/onshape-fundamentals-cad

3) Top-Down Design
   a. https://learn.onshape.com/learn/learning-path/top-down-design

Directions/Deliverables

This assignment is to be created individually in OnShape. Each student should create their own model. Name your files (write up, part files, assembly files if necessary): Upload your single page justification and measurement image as pages in your OnShape document (this is an advantage of OnShape – namely it is a single repository for design documentations of all formats).

Submit your model through the ME213 OnShape Classroom.