

(30 pts) Approx. 3 days

The first part of this unit gives you a chance to learn more about the details of properly dimensioning a diagram. You'll look at different types of dimensioning standards and practice fully dimensioning. You'll keep learning about new types of views called sectional views, how to add tolerances to a dimensioned part, and also how holes of different types are diagramed. With all these tools together, fully dimensioning your diagrams becomes easier. You'll then take those skills as you complete an assignment in Autodesk modeling and diagraming different parts.

1. **Notes: Dimensioning & Drawings:** Start by watching the videos *Dimensioning Standards* and *Alternate Views for Drawings*. Take a full page of notes on those two presentations in your engineering notebook. Make sure that your notes include specifics on what the expectations are when dimensioning a diagram, as well as when and how to use sectional views in a diagram.
2. **Notes: Tolerances & Holes:** Next, watch the *Tolerances* and *Dimensioning Holes* presentations. Take another full page of notes on these two presentations. Make sure that your notes include details on what kinds of tolerances can be included in a diagram as well as what characteristics of a hole can be included in properly dimensioned diagrams.
3. **Advanced Dimensioning Assignment:** Finally, get the *Advanced Dimensioning Assignment* from Mr. Benshoof and use Autodesk to model the necessary pieces. For each, you will also create an Autodesk diagram that is fully dimensioned and uses the new tools described in the assignment. Make sure that your diagrams are printed and complete!

Part 1: Tasks	10-7 points	6-4 points	3-0 points
 Notes: Dimensioning & Drawings	+ You took a full page of notes on the ideas in the <i>Dimensioning Standards</i> and <i>Alternate Views for Drawings</i> presentations + Your notes include details about the proper ways to fully dimension drawings + Your notes include details on sectional views	- Your notes are missing information on dimensioning standards - Your notes are missing details on sectional views	- Your notes are missing many key components - Your notes are completely missing
 Notes: Tolerances & Holes	+ You took a full page of notes on the ideas in the <i>Tolerances</i> and <i>Holes</i> presentations + Your notes include details on how tolerances communicate parameters + Your notes include details on how holes of different kinds are notated	- Your notes are missing details on including tolerances in diagrams - Your notes are missing details on how holes can be properly dimensioned	- Your notes are missing many key components - Your notes are completely missing
 Advanced Dimensioning Assignment	+ You completed the <i>Advanced Dimensioning Assignment</i> + Your Autodesk Diagrams are printed and turned in	- Your <i>Advanced Dimensioning Assignment</i> is incomplete	- Your assignment is missing

