# Tips for CAD Assignments

## General:

* **READ WHAT IS DUE**
  + Do you have everything, is it complete?
* **LESSONS LEARNED**
  + Better be more than one sentence!
* **ASSUMPTIONS**
  + If you did something that is not explicitly stated, it was assumed.
  + Make sure to list all assumptions in either the journal or pre-cad.
* **LOGICAL ORDER of WORK**
  + Organized, can a stranger understand what you did and how you did it?

## Part Modeling:

* **FULLY DEFINED SKETCHES**
  + Don’t even think about turning in anything under-defined!! Look for: (-)
* **ANNOTATE SKETCHES**
  + Lets everyone know what each sketch is for.

## Drawing Packages:

* **BASELINE DIMENSIONING**
  + Go over it! Is it clear? Non-redundant? Would Bill approve?
* **CLARITY**
  + Do not cross dimension lines, Lay out view to be nice and easy to read.
* **DIMENSION CONSISTANCY** 
  + Use Decimals, pay attention to sig. figs.
* **HOLE CALLOUTS**
  + Does the Machinist know the depth, threads, and type of the specified hole?
* **USE CHECKED BY**
  + Have someone check your drawings, it could save your grade.
* **PART NUMBERS**
  + Carefully consider part numbering.
* **ASSEMBLIES AND SUB ASSEMBLIES**
  + Do you have a Bill of Materials?

## Assemblies:

* **SELECTING FIRST PART TO ENTER**
  + Everything is based off of the first part entered, so choose wisely.
* **SUB ASSEMBLIES then ASSEMBLIES**
  + Build your proper Sub-Assemblies and then combine them into the final.
* **MATES**
  + Remember you can mate Part Planes.