EML2322L — MAE Design and Manufacturing Laboratory

Student Experience Survey

The following survey gauges the experience level of each student entering this course. The survey does not affect your grade; it allows fair distribution of the assigned groups in the course. Please WRITE CLEARLY and answer the questions as honestly and thoroughly as possible. Answer ALL questions.

First Name (print): ___________________________
Last Name (print): ___________________________
UF E-mail address: ___________________________
Assigned lab periods (i.e. T5-6): ________________

Classification and major (freshman, sophomore, junior, senior): ________________

EML2322L Prerequisites (IF YOU DON'T MEET THEM YOU CAN'T TAKE THIS COURSE):
A. I have completed EML2023 and can confidently use SolidWorks YES / NO
B. I have completed ENC3246, ENC3254, or ENC2210 (Technical Writing) YES / NO

Place a check by any of the following tools you have experience using:

- hand tools (screwdrivers, wrenches, etc.)
- drill press or hand drill
- milling machine or lathe
- sander, grinder or bandsaw
- welder or sheetmetal equipment

List any design, manufacturing, or leadership experience you have. (If you have none, don't worry) If you have any personal issues / concerns that may affect your ability to work diligently with your assigned group to complete the course assignments, please note that here as well.

___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

Explain (seriously) why you want to be an engineer:

___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

Fill out the knowledge assessment on the second page >>
List eight items that should be present on an engineering detail drawing:

1. ___________________________  
2. ___________________________  
3. ___________________________  
4. ___________________________  
5. ___________________________  
6. ___________________________  
7. ___________________________  
8. ___________________________

What is the purpose of an engineering bill of materials?

____________________________________________________________________________

Explain the difference between a clearance fit and an interference fit:

____________________________________________________________________________

How many points define a line?  How many points define a plane?  What is created by the intersection of two lines?  What is created by the intersection of two planes?

1. ___________________________  
2. ___________________________  
3. ___________________________  
4. ___________________________

How many millimeters are in an inch?  How many feet are in a meter?

1. ________________  
2. ________________

Write out the decimal equivalent of "one thousandth of an inch":

________________________

If one gallon of water weighs 8.3 lb, how much does two pounds of water weigh?

________________________

When working on a group project, which do you think is more important:

A. Becoming best friends while working together on the project.
B. Meeting project goals and deadlines while communicating clearly with your teammates.

Given the option, do you prefer to:

A. Learn more at the expense of additional work.
B. Learn less if it requires less effort.