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 for 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): 

Local phone number & e-mail: 

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.

List the names of any students in your section you prefer to work with (or avoid) in your group (only mutual requests shall be granted):

1. 
2. 
3. 
4. 

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.