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):  __________________________
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 considered):

1. __________________________  3. __________________________
2. __________________________  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. ____________________  5. ____________________
2. ____________________  6. ____________________
3. ____________________  7. ____________________
4. ____________________  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. ____________________  3. ____________________
2. ____________________  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.

*** Please ensure these two pages are either printed double sided or stapled together ***