**Engineering Tools ENGR 110 Fall**

**First Day Assignment:**

**Background:** Engineers are often tasked with making recommendations based on thorough collection and analysis of data. They must then clearly and accurately present their findings.

**Description:** Identify the best water fountain on campus.

You must provide data to support your conclusion.

You must use Excel to organize, analyze, and present your data.

Follow these steps:

1. Assemble your team – 3 to 4 people.

2. Discuss the task and develop a plan of action:

a. what data do you want to collect

b. how will you get it

c. how will you use it

3. Follow your plan

4. Using your data, identify the best water fountain on campus.

NOTES:

a. You must include at least 15 different water fountains in your study.

b. You must include fountains from at least 8 different buildings on campus.

c. The data you choose to collect and how to collect it is up to your team. However, it is expected that you will do a rigorous study. You must collect data on at least 7 characteristics of the fountains.

**Deliverables (one deliverable per team):**

\* Your plan of action (#2 above). Must be typed.

\* Excel spreadsheet(s) containing all your raw data and analyses.

\* ¾ to one page typed report discussing what you did, your findings, and your conclusion. This report, along with your spreadsheet(s) should justify your conclusion.

**Evaluation:** This is a lab grade and is one of the 14 labs we will complete. Each person who participates fully on the team will receive the same grade. The grade will be based on submitting all deliverables, the extent of your analysis, and the validity of your conclusions.

In addition to counting as a lab grade, each individual can earn up to 5 bonus points on test 1 for completing this lab.