



UNC CHARLOTTE

The WILLIAM STATES LEE COLLEGE of ENGINEERING

Senior Design Project Description for SPRING 2016

Project Title: Bottle Refill Study (FM-REFILL)

Supporter: Facilities Management

Supporter Technical Representative: ASSIGNED

Faculty Mentor: _____ ASSIGNED TBD (check one)

Single Team Dual Team _____ (check one)

Personnel (EN/ET): _____ E, _____ Cp, _____ Cv, _____ M, 5 SE

(Complete if the number of students required is known)

Expected person-hours: (250 per student)

Description of Project:

Water fountains are throughout all buildings on the UNC Charlotte campus. Some are new with bottle refilling capability and some are old without bottle refilling capability. In some buildings the building usage has changed since the water fountains were installed. The locations and use of water fountains and bottle refilling stations needs to be investigated so that it can be optimized.

Initial Project Requirements (e.g. weight, size, etc.):

A user survey must be conducted to determine current use, preferences, behavior and the interest in bottle refilling. From this study an analysis is to be performed to determine the optimum locations for fountains and bottle filling stations. A cost benefit analysis must be performed. The cost benefit analysis is to include the impact on recycling and vending machine use.

Expected Deliverables/Results:

A report will be produced that includes the results of the user survey and the cost benefit analysis.

List here any specific skills or knowledge needed or suggested (If none please state none):

None