

Breadth Topics

In my thesis I propose looking into two separate breadth topics. They are as follows:

Topic 1:

The first topic which will be covered is in the field of construction management. With these new designs being implemented I will make a comparison between the costs and schedules of the actual design to my proposed design. This information will then be used to determine whether or not the proposed design is beneficial or detrimental in comparison to the actual design.

Topic 2:

The second topic to be covered will be in the field of mechanical engineering. Currently the Christiana Hospital creates its cool air with the use of chilled water that is supplied by an outside source. I propose to design a chiller for the building that will be capable of creating the chilled water for cooling purposes in house. With this design a cost comparison will be performed to see if money can actually be saved by having a chiller on site or if pumping in chilled water, as is currently done, is more cost effective.