

# CSUMS Proposal Spring 2011

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## **1 Introduction**

Contaminated water is largely growing problem worldwide. Many of these contaminates within the water can cause serious health problems for consumers. These health problems can be as server as cancer and chronic illnesses which causes a serious problem. There are many different treatment methods including filtration, chlorination, and reverse osmosis. I will be looking into the effects of nano-filtration strand method.

## **2 Nano-Filtration**

Nano-Fibers with a certain diameter are coated. The coating on these fibers when placed into a contaminated water source and the fibers are designed to absorbs the contaminate in exchange release a non harmful ion such as chlorine. The PDE is used in order to describe

## **3 Goals**

My goals for this project are to gain a further knowledge in the water treatment method of nano fibers and its accompanying PDE. I will be continuing working on my matlab and latex skills by researching and presenting on a regular basis.