In Winter quarter 2011, I completed a stormwater project on campus made possible by the Cargill Sustainability Fellowship. I made the project interdisciplinary to align with my studies in MES. This project used Geographical Information System (GIS) software to map the stormwater system at Evergreen. The layers of data that I created are now available on a public server at Evergreen and the final map will become part of the Evergreen Stormwater Management Plan.

Additionally, I performed water quality monitoring at two major stormwater outfalls on campus through fecal coliform (FC) measurments and was involved with outreach on campus. I provided input about informational brochures for on campus students and. I also went through the process of presenting to the Campus Land Use Committee (CLUC) about installing pet waste control signs at campus trailheads in an attempt to limit pet waste contamination.

My project was enhanced through work done with fellow MES student Tim Benedict and Fungi Perfecti to test the ability of fungi mycelium to remove FC from water. We completed tests of passing sample water though woodchips inoculated with oyster mushroom spores and compared the results to base levels of FC from one of the stormwater outfalls and a control of plain wood chips. The results were indeed promising, and Fungi Perfecti was very happy that we were able to complete tests of their technology in a lab environment.