

Environment Corps

This document is from the library of materials assembled for the [E-Corps Online Handbook](#), a section of the [Environment Corps](#) website intended to assist faculty interested in adapting the program model to their own areas of interest and expertise.

**Stormwater Corps Group Project: Pervious Concrete
Construction
(Spring 2023)**

HOMEWORK #4

NRE 3150 | SPR 2023

Due Tuesday 2/28/23

In class on 2/28/23, your group will be making your own pervious concrete (**DO NOT COME TO OUR REGULAR CLASSROOM-PLEASE COME TO THE HICKS ARENA BY THE YOUNG BUILDING**). Using the specification provided, work with your group to determine the proper mixture of materials.

Here are your given facts:

1. You will be given **7.70 kg** of stone aggregate
2. You will have access to sand (fine aggregate), Portland cement, and water
3. You will have access to a balance to weigh these materials and graduated cylinders for measuring water volume
4. We will have gloves and other PPE for handling the Portland cement

Your material will be tested for:

1. Strength (shear test using weight of one professor)
2. Permeability (can it accept a fixed volume of water in a certain time)

Your assignment is to come to class with:

1. A name for your group
2. Your “recipe” of materials to create pervious concrete

If possible, we suggest wearing “play clothes” for this activity!