**Polymers Procedure**

# Polymerization of Nylon-6,10

1. Add 10 mL of 5 % aqueous 1,6-hexanediamine to a 50 mL beaker. Next, add 10 drops of 20 % sodium hydroxide.
2. Carefully pour 10 mL of 5 % sebacoyl chloride in hexane down the side of the beaker. Two layers should form, and a polymer film should form at the surface interface. Carefully pull the film out using some copper wire with a hook on the end. Remember, we are trying to pull as long a strand as possible. Think of different ways you might do it (like winding it around your thermometer).
3. Measure the length of the polymer obtained.

# Polymerization of Nylon 6,6

1. Add 10 mL of 5 % aqueous 1,6-hexanediamine to a 50 mL beaker. Next, add 10 drops of 20 % sodium hydroxide.
2. Carefully pour 10 mL of 5 % adipoyl chloride in hexane down the side of the beaker. Two layers should form, and a polymer film should form at the surface interface. Carefully pull the film out using some copper wire with a hook on the end. Remember, we are trying to pull as long a strand as possible. Think of different ways you might do it (like winding it around a beaker).
3. Measure the length of the polymer obtained.