

# COSC 480 – Robotics

## Project 5

Purpose: Use what you've learned to create a competition-level robot.

Task: Finish your final build.

Create a robot that will play and beat your fellow teams at soccer. The field (or pitch) is specified as follows:

- \* 6' x 4' with green carpeting
- \* Goals are placed on either side (short ends) and are 18" wide and 6" tall.
- \* The pitch is bordered by either 4" tall walls or PVC piping.
- \* The goals will be colored blue and yellow.
- \* There will be a center spot given for calibration and ball placement.

I will try to get at least one field constructed as soon as possible for you to test on.

Note: we will follow the approved RoboCup Jr. specifications for robotic soccer closely, but not exactly. For this milestone, we will use an approved RCJ-05 soccer ball in RCJ-Pulse mode.

You may use any of the sensors and LEGOs in the kit as well as any extra LEGOs you may need. If you need extra LEGOs, you should request them from Alan.

DUE: May 6<sup>th</sup> during the final period (2 – 4:15).