

## AME 30358 – Score Sheet

M7 – Robot Leg Part 2 (a.k.a., Impedance Control)

Name(s): \_\_\_\_\_

The following items will be *demonstrated* to the lab instructor during the allotted lab time. Credit will not be given for portions completed outside of lab.

Item and Description	Points Awarded	Possible Points
<b>Part 1: Joint impedance Control</b> Wiring for one motor is correct.		2
Joint impedance control properly demonstrated across range of dampings.		3
<b>Part 2: 2DoF Leg Hardware</b> Demonstrate performance after wiring (power off, uncalibrated encoder)		2
Demonstrate performance after wiring (power off, calibrated encoder)		3
<b>Part 3: Cartesian impedance control</b> Completed impedance control implementation		4
Comparative tests for impedance parameters		3
<b>Part 4: Tracking Control</b> Line tracking (position reference)		2
Circle tracking (position reference)		2
Circle tracking (position and velocity reference)		4
<b>Clean-up</b> The students returned the lab bench to its initial state.		2
<b>TOTAL</b>		27