

**MEM 639 Tentative Lab Schedule – Fall 2007
(updated 11/04/07)**

Week	Topic	
Week 1 09/24/07	Lecture Lab	Course Intro LabVIEW Basics
Week 2 10/01/07	Lecture Lab Homework	Numbering Systems LabVIEW Digital Inputs and Outputs Numbering Systems
Week 3 10/08/07	Columbus Day Holiday – No Class	
Week 4 10/15/07	Lecture Lab Homework	Voltage Dividers, Op Amps LabVIEW Analog Input and Output Op-Amps
Week 5 10/22/07	Lecture Lab Homework	Block Diagrams and Differential Equations LabVIEW Timers and Counters Block Diagrams and Differential Equations
Week 6 10/29/07	Lecture	Mid-term: Lab Problems and Written Exam
Week 7 11/05/07	Lecture Lab Homework	Motor Theory LabVIEW Simulation Tool Kit Primer Simulation and Motor Theory
Week 8 11/12/07	Lecture Lab Homework	System Type and PID Theory Open-Loop Step Response: Simulation and Experimental PID problems
Week 9 11/19/07 (TA)	Lab Homework	Project Day Project Draft (5-page written report)
Week 10 11/26/07	Lecture Lab Homework	PID Experimental Closed-loop Velocity Control – Simulation and Experiment Project Draft (10-page written report)
Week 11 12/03/07	Lab	Project Demo
Week 12 12/10/07	Final Exam	