

EE461 Syllabus
Spring 2007

Session #	Date	Topic
0	Friday	5-Jan-06 Introduction and Overview
1	Monday	8-Jan-06 Digital Logic Review
2	Wednesday	10-Jan-06 PIC16F874 Architecture
3	Thursday	11-Jan-06 PIC16F874 Architecture
4	Friday	12-Jan-06 Assembly and Machine Language
	Monday	15-Jan-06 Martin Luther King, Jr. Holiday
5	Wednesday	17-Jan-06 Arithmetic Instructions and Computer Arithmetic
Lab	Thursday	18-Jan-06 PIC16F874 Programming Introduction — Part I
6	Friday	19-Jan-06 Logic Instructions
7	Monday	22-Jan-06 Testing for Conditions
8	Wednesday	24-Jan-06 Subroutines, Functions, and Branching
Lab	Thursday	25-Jan-06 PIC16F874 Programming Introduction — Part II
9	Friday	26-Jan-06 PIC16F874 I/O Ports
10	Monday	29-Jan-06 Light-Emitting Diodes and 7-Segment Displays
11	Wednesday	31-Jan-06 Debugging with the Debugger and the Oscilloscope
Lab	Thursday	1-Feb-06 Using LEDs and 7-Segment Display — Part I
12	Friday	2-Feb-06 Structured Programming
13	Monday	5-Feb-06 Macros
	Wednesday	7-Feb-06 Handling Interrupts
Lab	Thursday	8-Feb-06 Using LEDs and 7-Segment Display — Part II
14	Friday	9-Feb-06 PIC16874 Timing Programs
15	Monday	12-Feb-06 PIC16F874 Timers 0 and 1
16	Wednesday	14-Feb-06 Review for Test 1
Lab	Thursday	15-Feb-06 Test 1
17	Friday	16-Feb-06 PIC16F874 Timer 2 & Capture/Compare
	Monday	19-Feb-06 Presidents' Day Holiday
18	Wednesday	21-Feb-06 Stepper Motors
Lab	Thursday	22-Feb-06 Motor Control with the PIC16F874 — Part I
19	Friday	23-Feb-06 A/D and D/A Conversion I
20	Monday	26-Feb-06 A/D and D/A Conversion II
21	Wednesday	28-Feb-06 Input from Switches, Knobs, Sliders, & Sensors
Lab	Thursday	1-Mar-06 Motor Control with the PIC16F874 — Part II
22	Friday	2-Mar-06 Using PWM for D/A Conversion
23	Monday	5-Mar-06 Asynchronous Serial I/O I
24	Wednesday	7-Mar-06 Asynchronous Serial I/O II
Lab	Thursday	8-Mar-06 Motor Control with the PIC16F874 — Part III
25	Friday	9-Mar-06 Synchronous Serial I/O on the PIC16F874
	Monday	12-Mar-06 Spring Break
	Wednesday	14-Mar-06 Spring Break
	Thursday	15-Mar-06 Spring Break
	Friday	16-Mar-06 Spring Break
26	Monday	19-Mar-06 Parallel Slave Port on the PIC16F874
27	Wednesday	21-Mar-06 Memory Types
Lab	Thursday	22-Mar-06 Design Project Lab — Part I
28	Friday	23-Mar-06 Microprocessor-Based Instruments I
29	Monday	26-Mar-06 Microprocessor-Based Instruments II
30	Wednesday	28-Mar-06 Microprocessor-Based Instruments III

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Session #		Date	Topic
	Lab	Thursday	29-Mar-06 Design Project Lab — Part II
31		Friday	30-Mar-06 Using EEPROM in the PIC16F874
32		Monday	2-Apr-06 Watch Dog Timers
		Wednesday	4-Apr-06 Review for Test 2
	Lab	Thursday	5-Apr-06 Test 2
33		Friday	6-Apr-06 Random-Number Generation
34		Monday	9-Apr-06 Memory Buses
35		Wednesday	11-Apr-06 I/O Bus Expansion
	Lab	Thursday	12-Apr-06 Design Project Lab — Part III
36		Friday	13-Apr-06 Memory: Error detection & correction
37		Monday	16-Apr-06 Memory Systems
38		Wednesday	18-Apr-06 Design Project Lab — Part IV
	Lab	Thursday	19-Apr-06 Design Project Lab — Part V
39		Friday	20-Apr-06 Project Presentations/Demonstrations
40		Monday	23-Apr-06 Project Presentations/Demonstrations
41		Wednesday	25-Apr-06 Project Presentations/Demonstrations
	Lab	Thursday	26-Apr-06 Project Presentations/Demonstrations
42		Friday	27-Apr-06 Final Exam Review/Course Wrap Up