



CONTINUING STUDIES, CORPORATE
AND DISTANCE EDUCATION

Microprocessors A – Fall 2010 (Syllabus)

Course Number: 17.383 **Work:** 207-438-3290
Instructor: Dohn Bowden **Home:** 978-851-0153
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Text: Various on-line documents – see website

Prerequisite: 17.341 (Logic Design I and Laboratory)

Course Description: Introduction to interfacing the microcontroller to the outside world through an integrated set of experiments and related lectures. The course will contain a project applying the fundamentals learned to a real world design. Approximately one-half of the course time will be an associated laboratory.

Course Calendar: Tuesday class 6:00 – 9:00 PM

Week	Date	Topics	Lab	Lab Results Due
1	09/07/10	Intro, Course & Lab Overview, Microcontroller Basics	1	
2	09/14/10	PIC16F684 Overview and General Input/Output	1 con't	
3	09/21/10	Switches	2	1
4	09/28/10	Seven Segment LEDs	2 con't	
5	10/05/10	Examination 1		
X	10/12/10	No Class – Monday Schedule		
6	10/19/10	Analog to Digital Conversion	3	2
7	10/26/10	Analog to Digital Conversion con't	3 con't	
8	11/02/10	LCD Interface and Assembly Language	4	
9	11/09/10	Comparators	4 con't	3
10	11/16/10	Timers and Pulse Width Modulation (PWM)	5	
11	11/23/10	Mixed C & Assembly Programming/Course Project	Project	4
12	11/30/10	Examination 2		
13	12/07/10	Course Project	Project	5
14	12/14/10	Final Exam/Course Project Brief and Demonstration	Demo	

General info: Attendance will be taken. **Lab material must be returned or INC grade will be awarded until material is returned.**

Grading Policy:

Exam #1 (20%), Exam #2 (20%), Laboratory (30%), and Final Exam/Course Project (30%)

A	93-100	B+	87-89	C+	77-79	D+	67-69
A-	90-92	B	83-86	C	73-76	D	60-66
		B-	80-82	C-	70-72	F	Below 60