

ECE383 Class Schedule (Spring 2017)		
Lecture	Suggested Reading	Suggested Exercises
Introduction, class organization, number systems, digital logic review	3-30	1.1-1.10, 1.12-1.15
The PIC24 microcontroller family, program and data memory, addressing modes	53-78	3.1-3.10
Basic data movement and arithmetic operations	78-93	3.12, 3.13, 3.16-3.20
Logical, conditional, and basic control operations	95-132	4.2, 4.6, 4.12, 4.14, 4.16, 4.36, 4.38, 4.40, 4.42, 4.44
PIC pinout, PIC C programming	247-284	8.1, 8.3
General purpose I/O, LED and switch I/O	284-301	8.9, 8.10, 8.11, 8.12
LED and switch I/O FSM examples, interrupts	317-330	8.13, 8.15
Timers, interrupt-based I/O	330-352	9.7,9.8,9.9,9.24,9.25
Serial peripheral interface (SPI)	401-419	10.16,10.17,10.18
I2C I/O devices and operation	419-440	10.29-10.32
Data conversion, theory, analog-to-digital conversion (ADC)	449-474	11.7,11.10,11.13,11.14
Digital-to-analog conversion (DAC)	474-488	11.15-11.17