

CPTR 215 - Assembly Language Programming Schedule  
Fall 2012

Date		Topic	Reading
M	Sept 24	Introduction	
W	26	Signed numbers, number conversions	Chap 1
F	28	Data representation; Computer architecture intro	
M	Oct 1	CPU architecture in more detail	
W	3	Instruction fetch/execute	
F	5	First machine instructions	p.27-34
M	8	Assembly Language introduction	p.35-46
W	10	Service day - no class	
F	12	Assembly language program creation	p.46-51
M	15	Branching & Flags	p.53-66
W	17	Branching continued; software design	Chap 2
F	19	Exam I	
M	22	Program structures; program flow	p.68-79
W	24	Loops: For; While; If-Then-Else	
F	26	Data access; Addressing modes	p.81-90
M	29	Data structures	p.86-96
W	31	Intro to LPC2148 micro-controller	
F	Nov 2	Procedure calls; Stack operation	p.98-109
M	5	Stack operations continued	p.110-113
W	7	Bit manipulation instructions	p.115-125
F	9	Exam II	
M	12	Arithmetic operations	p.127-140
W	14	Separately assembled modules	
F	16	Details of LPC-2148 input and output	Handout
M	19	Thanksgiving Vacation	
W	21	" "	
F	23	" "	
M	26	Using ARM specific features	p.153-163
W	28	ARM modes of operation; Exceptions	p.174-181
F	30	Interrupt driven I/O	p.183-186
M	Dec 3	Assembler arithmetic; Mixed language programs	p.192-194
W	5	Using other processors; misc wrap up	p.196-197
F	7	Review	
Monday	Dec 10	Final Exam 2:00pm -> 3:50pm	Part 1 closed book Part 2 open book