

Engineering 100, section 250, Microprocessors and Toys

Week	Date	Type	Topic	Assigned	Due
1	Wed Jan 07	Lec	Course overview	TC 1	
	Thu Jan 08	Disc	Introductions and team formation		
	Fri Jan 09	Lab	Data representation	Lab 1	
2	Mon Jan 12	Lec	CSE: Combinational logic		
	Wed Jan 14	Lec	TC: Intro to technical communications	TC 2 TC book: Intro, Ch. 1-2	TC 1
	Thu Jan 15	Disc	Team skills, issues, and management		
	Fri Jan 16	Lab	Intro to DE2-115/Quartus	Lab 2	Lab 1
3	Mon Jan 19	Martin Luther King, Jr. Day -- no class			
	Wed Jan 21	Lec	CSE: Connecting components; sequential logic		
	Thu Jan 22	Disc	Forewords and summaries		
	Fri Jan 23	Lab	Combinational logic	Lab 3	Lab 2
4	Mon Jan 26	Lec	CSE: Finite-state machines		TC 2
	Wed Jan 28	Lec	TC: Clear thinking: persuasion, proposals	TC 3	
	Thu Jan 29	Disc	Case study		
	Fri Jan 30	Lab	Registers and memory	Lab 4	Lab 3
5	Mon Feb 02	Lec	CSE: Implementing algorithms in hardware		
	Wed Feb 04	Lec	CSE: Stored-program computers		
	Thu Feb 05	Disc	Gantt chart and project planning		
	Fri Feb 06	Lab	Hardware encryptor/decryptor	Lab 5	Lab 4
6	Mon Feb 09	Lec	CSE: E100 instruction set		
	Wed Feb 11	Lec	CSE: E100 implementation		
	Thu Feb 12	Disc	Outlining		
	Fri Feb 13	Lab	E100 part 1	Lab 6	Lab 5
7	Mon Feb 16	Lec	CSE: Assembly-language programming	TC 4	TC 3
	Wed Feb 18	Lec	CSE: I/O devices	TC book: Ch. 8	Project meetings
	Thu Feb 19	Disc	Logical fallacies		
	Fri Feb 20	Lab	E100 part 2	Lab 7	Lab 6
8	Mon Feb 23	Lec	TC: Presentations; teamwork		
	Wed Feb 25	Lec	Midterm exam (in class)		
	Thu Feb 26	Disc	Visuals		
	Fri Feb 27	Lab	I/O devices	Lab 8	Lab 7
9	Mon Mar 09	Lec	Midterm debrief	TC book: Ch. 3	
	Wed Mar 11	Rehearsals of proposal presentations -- no class			
	Thu Mar 12	Lab	Proposal presentations	Peer evaluations	TC 4
	Fri Mar 13				
10	Mon Mar 16	Lec	TC: Progress reports	TC 5	Peer evaluations
	Wed Mar 18	Lec	TC: Organization and plain language	TC book: Appendix A	
	Thu Mar 19	Lab	Project work		
	Fri Mar 20				
11	Mon Mar 23	Lec	CSE: Implementing digital logic	TC 6	
	Wed Mar 25	Lec	CSE: General-purpose computers		
	Thu Mar 26	Lab	Project work		
	Fri Mar 27				
12	Mon Mar 30	Lec	TC: Visuals; statistics	TC 7 TC 8	TC 5
	Wed Apr 01	Lec	TC: Final reports	TC book: Ch. 6	
	Thu Apr 02	Lab	Project work		
	Fri Apr 03				
13	Mon Apr 06	Lec	Ethics and sustainability		TC 6
	Wed Apr 08	Lec	Writing workshop		
	Thu Apr 09	Lab	Project work		
	Fri Apr 10				
14	Mon Apr 13	Lec	CSE: Computer science and engineering		
	Wed Apr 15	Rehearsals of final presentations -- no class			
	Thu Apr 16	Lab	Final presentations		TC 7 Lab 8
	Fri Apr 17				
15	Mon Apr 20	Lec	Project showcase	Peer evaluations	TC 8 Peer evaluations
16	Thu Apr 30	Final exam (10:30 am - 12:30 pm) (no early exams will be given)			