

University of Massachusetts Dartmouth
Department of Electrical and Computer Engineering

ECE 160

Tentative Syllabus - Spring 2019

For Due Dates see:

<http://ece160.org>

Cls	Date	Day	Topics (pages)	Lab	Project handout/Notes
1	01/23/19	Wed	Course Intro/History of Computers	No Lab	Syl/Intro/Checkoff sheet
2	01/25/19	Fri	Binary/Decimal/Hex (notes)	No Lab	Prj 1:numbase.txt (1-13) (handout)
3	01/28/19	Mon	counting in other number bases, conversion 2-4-8-16		TUES 1/29 Last Day to Add/Drop
4	01/30/19	Wed	bitwise and/or/xor/compliment	Lab 1: numbase.txt (14-25)	
5	02/01/19	Fri	Constants/Variables/Keywords (1-15)	Lab 1: numbase.txt (14-25)	
6	02/04/19	Mon	First Program/printf/scanf (16-28)		Prj 2:bittwittle.txt (handout)
7	02/06/19	Wed	if/if else (37-48)	Lab 2:interest.cpp	
8	02/08/19	Fri	arithmetic/logical operators (48-59)	Lab 2:interest.cpp	
9	02/11/19	Mon	while (75-83)		Prj 3: evalexpr.txt (handout)
10	02/13/19	Wed	for (83-89)	Lab 3: payroll.cpp	
11	02/15/19	Fri	do-while, break, continue, case (105-116)	Lab 3: payroll.cpp	
12	02/19/19	Tue	nested for loops (89-104) happy numbers !! TUE IS MON !!		Prj 4: convchart.cpp (handout)
13	02/20/19	Wed	Nested loops example cows pigs hens	ATmega 1: LED-cycle-R-M-B-C-G-Y-R	
14	02/22/19	Fri	Exam #1 PRE-REVIEW	ATmega 1: LED-cycle-R-M-B-C-G-Y-R	
15	02/25/19	Mon	EXAM #1		Prj 5: stars.cpp (hanndout)
16	02/27/19	Wed	Exam #1 - POST REVIEW	ATmega 2:buttons-hold-for-rgb	
17	03/01/19	Fri	Intro to functions (117-131)	ATmega 2:buttons-hold-for-rgb	
18	03/04/19	Mon	Call by value/address (134-154 skip recursion)		Prj 6: dayofweek.cpp (handout)
19	03/06/19	Wed	Call by value - the details (134-154)	ATmega 3:buttons-toggle-rgb	
20	03/08/19	Fri	Call by address - the details (165-183)	ATmega 3:buttons-toggle-rgb	
			SPRING BREAK		
21	03/18/19	Mon	Intro to arrays/big/small/average (217-223)		Prj 7: gencal.cpp (handout)
22	03/20/19	Wed	sorting arrays (notes)	ATmega 4:pwm	

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23	03/22/19	Fri	passing arrays to function/pointers (223-232)	ATmega 4:pwm	
24	03/25/19	Mon	Array examples - typedef (notes, 409-411)		Prj 8: complex.cpp (handout)
25	03/27/19	Wed	Array sorting	ATmega 5:single digit down-clr-up	
26	03/29/19	Fri	EXAM #2 PRE-REVIEW	ATmega 5:single digit down-clr-up	
27	04/01/19	Mon	EXAM #2		Prj 9: bigsmall.cpp (handout)
28	04/03/19	Wed	EXAM #2 POST-REVIEW	ATmega 6:fixed-four-digit-hex	
29	04/05/19	Fri	File I/O (331-351)	ATmega 6:fixed-four-digit-hex	
30	04/08/19	Mon	Array example BigNum part 1		Prj 10: modefile.cpp (handout)
31	04/10/19	Wed	Array example BigNum part 2	ATMega 7:four-digit-hex-down-clr-up	APR 12 = LAST DAY TO W
32	04/12/19	Fri	2D arrays (232-240)	ATMega 7:four-digit-hex-down-clr-up	Prj 11: eee.cpp (handout)
	04/15/19	Mon	NO CLASSES - PATRIOTS DAY		
33	04/17/19	Wed	Strings part 1 (276-283) !! FOLLOW MONDAY'S SCHED	No Lab (Mondays Sched)	
34	04/19/19	Fri	Strings part 2 (276-283)	ATMega 8: four-digit-pots	
35	04/22/19	Mon	File I/O with strings (331-351)		Prj 12:stutestnames.cpp (handout)
36	04/24/19	Wed	formatted output, sprintf/sscanf (313-326)	ATMega 8: four-digit-pots	Extra Credit: baseconversion.cpp
37	04/26/19	Fri	EXAM #3 PRE-REVIEW	Open Lab	
38	04/29/19	Mon	EXAM #3	No Lab	
39	05/01/19	Wed	SINGLE MAKE UP EXAM	No Lab	