

University of Massachusetts Dartmouth
Department of Electrical and Computer Engineering

ECE 160

Tentative Syllabus - Fall 2019

For Due Dates see:

<http://ece160.org>

Cls	Date	Day	Topics (pages)	Lab	Project handout/Notes
1	09/04/19	Wed	Course Intro/History of Computers	No Lab	
2	09/06/19	Fri	Binary/Decimal/Hex (notes)	No Lab	
3	09/09/19	Mon	counting in other number bases, conversion 2-4-8-16	Lab 1: numbase.txt (14-25)	Prj 1:numbase.txt (1-13) (handout)
4	09/11/19	Wed	bitwise and/or/xor/compliment	Lab 1: numbase.txt (14-25)	Last Day to Add/Drop
5	09/13/19	Fri	Constants/Variables/Keywords (1-15)		
6	09/16/19	Mon	First Program/printf/scanf (16-28)	Lab 2:interest.cpp	Prj 2:bittwittle.txt (handout)
7	09/18/19	Wed	if/if else (37-48)	Lab 2:interest.cpp	
8	09/20/19	Fri	arithmetic/logical operators (48-59)		
9	09/23/19	Mon	while (75-83)	Lab 3: payroll.cpp	Prj 3: evalexpr.txt (handout)
10	09/25/19	Wed	for (83-89)	Lab 3: payroll.cpp	
11	09/27/19	Fri	do-while, break, continue, case (105-116)		
12	09/30/19	Mon	Exam #1 PRE-REVIEW	Atmega 1: LED-cycle-R-M-B-C-G-Y-R	Prj 4: convchart.cpp (handout)
13	10/02/19	Wed	EXAM #1	Atmega 1: LED-cycle-R-M-B-C-G-Y-R	
14	10/04/19	Fri	Exam #1 - POST REVIEW		
15	10/07/19	Mon	nested for loops (89-104) happy numbers	ATmega 2:buttons-hold-for-rgb	
16	10/09/19	Wed	nexeted loops example cows pigs hens	ATmega 2:buttons-hold-for-rgb	MON LAB/Prj 5: stars.cpp (hndot)
17	10/11/19	Fri	Intro to functions (117-131)		
	10/14/19	Mon	COLUMBUS DAY (no classes)		
18	10/16/19	Wed	Call by value/address (134-154 skip recursion) (Monday Sched)	OPEN LAB	Prj 6: dayofweek.cpp (handout)
19	10/18/19	Fri	Call by value - the details (134-154)		
20	10/21/19	Mon	Call by address - the details (165-183)	ATmega 3:buttons-toggle-rgb	
21	10/23/19	Wed	Intro to arrays/big/small/average (217-223)	ATmega 3:buttons-toggle-rgb	Prj 7: gencal.cpp (handout)
22	10/25/19	Fri	sorting arrays (notes)		

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23	10/28/19	Mon	passing arrays to function/pointers (223-232)	ATmega 4:pwm	
24	10/30/19	Wed	Array examples - typedef (notes, 409-411)	ATmega 4:pwm	Prj 8: complex.cpp (handout)
25	11/01/19	Fri	Array sorting		
26	11/04/19	Mon	EXAM #2 PRE-REVIEW	ATmega 5:single digit down-clr-up	
27	11/06/19	Wed	EXAM #2	OPEN LAB	Prj 9: bigsmall.cpp (handout)
28	11/08/19	Fri	EXAM #2 POST-REVIEW		
	11/11/19	Mon	VETERANS DAY - NO CLASSES		
29	11/13/19	Wed	File I/O (331-351)	ATmega 5:single digit down-clr-up	
30	11/15/19	Fri	Array example BigNum part 1 (LAST DAY TO WITHDRAW)		Prj 10: modefile.cpp (handout)
31	11/18/19	Mon	Array example BigNum part 2	ATmega 6: fixed-four-digit	
32	11/20/19	Wed	2D arrays (232-240)	ATmega 6: fixed-four-digit	
33	11/22/19	Fri	Strings part 1 (276-283)		Prj 11: eee.cpp (handout)
34	11/25/19	Mon	Strings part 2 (276-283)	ATmega 7: four-digit-pots	
35	11/27/19	Wed	File I/O with strings (331-351)	ATmega 7: four-digit-pots	Prj 12:stutestnames.cpp (handot)
	11/29/19	Fri	NO CLASSES		
36	12/02/19	Mon	formatted output, sprintf/sscanf (313-326)	Open Lab/xcredit (baseconversion)	
37	12/04/19	Wed	EXAM #3 PRE-REVIEW	Open Lab/xcredit (baseconversion)	
38	12/06/19	Fri	EXAM #3		
39	12/09/19	Mon	SINGLE MAKE UP EXAM	No Lab	