

University of Massachusetts Dartmouth
Department of Electrical and Computer Engineering

ECE 160

Tentative Syllabus - Fall 2018

For Due Dates see:

<http://ece160.org>

Cls	Date	Day	Topics (pages)	Lab	Project handout/Notes
1	09/05/18	Wed	Course Intro/History of Computers	No Lab	
2	09/07/18	Fri	Binary/Decimal/Hex (notes)	No Lab	
3	09/10/18	Mon	counting in other number bases, conversion 2-4-8-16	No Lab	Prj 1: numbase.txt (1-13) (handout)
4	09/12/18	Wed	bitwise and/or/xor/compliment	Lab 1: numbase.txt (14-25)	Last Day to Add/Drop
5	09/14/18	Fri	Constants/Variables/Keywords (1-15)	Lab 1: numbase.txt (14-25)	
6	09/17/18	Mon	First Program/printf/scanf (16-28)	Lab 1: numbase.txt (14-25)	Prj 2: bittwittle.txt (handout)
7	09/19/18	Wed	if/if else (37-48)	Lab 2: interest.cpp	
8	09/21/18	Fri	arithmetic/logical operators (48-59)	Lab 2: interest.cpp	
9	09/24/18	Mon	while (75-83)	Lab 2: interest.cpp	Prj 3: evalexpr.txt (handout)
10	09/26/18	Wed	for (83-89)	Lab 3: payroll.cpp	
11	09/28/18	Fri	do-while, break, continue, case (105-116)	Lab 3: payroll.cpp	
12	10/01/18	Mon	Exam #1 PRE-REVIEW	Lab 3: payroll.cpp	Prj 4: convchart.cpp (handout)
13	10/03/18	Wed	EXAM #1	No Lab	
14	10/05/18	Fri	Exam #1 - POST REVIEW	Arduino 1: LED-cycle-R-M-B-C-G-Y-R	
	10/08/18	Mon	COLUMBUS DAY - NO CLASSES		
15	10/10/18	Wed	nested for loops (89-104) happy numbers	Arduino 1: LED-cycle-R-M-B-C-G-Y-R	MON LAB/Prj 5: stars.cpp (hndot)
16	10/12/18	Fri	Nested loops example cows pigs hens	Arduino 1: LED-cycle-R-M-B-C-G-Y-R	WED LAB GROUP IF POSSIBLE
17	10/15/18	Mon	Intro to functions (117-131)	Arduino 2: buttons-hold-for-rgb	
18	10/17/18	Wed	Call by value/address (134-154 skip recursion)	Arduino 2: buttons-hold-for-rgb	Prj 6: dayofweek.cpp (handout)
19	10/19/18	Fri	Call by value - the details (134-154)	Arduino 2: buttons-hold-for-rgb	
20	10/22/18	Mon	Call by address - the details (165-183)	Arduino 3: buttons-toggle-rgb	
21	10/24/18	Wed	Intro to arrays/big/small/average (217-223)	Arduino 3: buttons-toggle-rgb	Prj 7: gencal.cpp (handout)

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22	10/26/18	Fri	sorting arrays (notes)	Arduino 3:buttons-toggle-rgb	
23	10/29/18	Mon	passing arrays to function/pointers (223-232)	Arduino 4:pwm	
24	10/31/18	Wed	Array examples - typedef (notes, 409-411)	Arduino 4:pwm	Prj 8: complex.cpp (handout)
25	11/02/18	Fri	Array sorting	Arduino 4:pwm	
26	11/05/18	Mon	EXAM #2 PRE-REVIEW	Arduino 5:single digit down-clr-up	
27	11/07/18	Wed	EXAM #2	No Lab	Prj 9: bigsmall.cpp (handout)
28	11/09/18	Fri	EXAM #2 POST-REVIEW	Arduino 5:single digit down-clr-up	
	11/12/18	Mon	VETERANS DAY - NO CLASSES		
29	11/14/18	Wed	File I/O (331-351)	Arduino 5:single digit down-clr-up	
30	11/16/18	Fri	Array example BigNum part 1	Arduino 6: fixed-four-digit	Prj 10: modefile.cpp (handout)
31	11/19/18	Mon	Array example BigNum part 2	Arduino 6: fixed-four-digit	NOV 16 = LAST DAY TO W
32	11/21/18	Wed	2D arrays (232-240)	Arduino 6: fixed-four-digit	
	11/23/18	Fri	NO CLASSES - THANKSGIVING		Prj 11: eee.cpp (handout)
33	11/26/18	Mon	Strings part 1 (276-283)	Arduino 7: four-digit-pots	
34	11/28/18	Wed	Strings part 2 (276-283)	Arduino 7: four-digit-pots	
35	11/30/18	Fri	File I/O with strings (331-351)	Arduino 7: four-digit-pots	
36	12/03/18	Mon	formatted output, printf/sscanf (313-326)	Open Lab	Prj 12:stutestnames.cpp (handout)
37	12/05/18	Wed	EXAM #3 PRE-REVIEW	Open Lab	Extra Credit: baseconversion.cpp
38	12/07/18	Fri	EXAM #3	No Lab	
39	12/10/18	Mon	SINGLE MAKE UP EXAM	No Lab	