

University of Massachusetts Dartmouth
Department of Electrical and Computer Engineering

ECE 160

Tentative Syllabus - Spring 2018

For Due Dates see:

<http://ece160.org>

Cls	Date	Day	Topics (pages)	Lab	Project handout/Notes
1	01/22/18	Mon	Course Intro/History of Computers	No Lab	
2	01/24/18	Wed	Binary/Decimal/Hex (notes)	No Lab	
3	01/26/18	Fri	counting in other number bases, conversion 2-4-8-16	No Lab	Prj 1: numbase.txt (1-13) (handout)
4	01/29/18	Mon	bitwise and/or/xor/compliment	Lab 1: numbase.txt (14-25)	
5	01/31/18	Wed	Constants/Variables/Keywords (1-15)	Lab 1: numbase.txt (14-25)	
6	02/02/18	Fri	First Program/printf/scanf (16-28)	Lab 1: numbase.txt (14-25)	Prj 2: bittwittle.txt (handout)
7	02/05/18	Mon	if/if else (37-48)	Lab 2: interest.cpp	
8	02/07/18	Wed	arithmetic/logical operators (48-59)	Lab 2: interest.cpp	
9	02/09/18	Fri	while (75-83)	Lab 2: interest.cpp	Prj 3: evalexpr.txt (handout)
10	02/12/18	Mon	for (83-89)	Lab 3: payroll.cpp	
11	02/14/18	Wed	nested for loops (89-104)	Lab 3: payroll.cpp	
12	02/16/18	Fri	Exam #1 PRE-REVIEW	Lab 3: payroll.cpp	Prj 4: convchart.cpp (handout)
13	02/20/18	Tue	EXAM #1	No Lab	
14	02/21/18	Wed	Exam #1 - POST REVIEW	Open Lab	
15	02/23/18	Fri	Nested loops example cows pigs hens	Arduino 1: LED-cycle-R-M-B-C-G-Y-R	Prj 5: stars.cpp (handout)
16	02/26/18	Mon	do-while, break, continue, case (105-116)	Arduino 1: LED-cycle-R-M-B-C-G-Y-R	
17	02/28/18	Wed	Intro to functions (117-131)	Arduino 1: LED-cycle-R-M-B-C-G-Y-R	
18	03/02/18	Fri	Call by value/address (134-154 skip recursion)	Arduino 2: buttons-hold-for-rgb	Prj 6: dayofweek.cpp (handout)
19	03/05/18	Mon	Call by value - the details (134-154)	Arduino 2: buttons-hold-for-rgb	
20	03/07/18	Wed	Call by address - the details (165-183)	Arduino 2: buttons-hold-for-rgb	
21	03/09/18	Fri	Intro to arrays/big/small/average (217-223)	No Lab	Prj 7: gencal.cpp (handout)
*** SPRING BREAK ***					

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22	03/19/18	Mon	sorting arrays (notes)	Arduino 3:buttons-toggle-rgb	
23	03/21/18	Wed	passing arrays to function/pointers (223-232)	Arduino 3:buttons-toggle-rgb	
24	03/23/18	Fri	Array examples - typedef (notes, 409-411)	Arduino 3:buttons-toggle-rgb	Prj 8: complex.cpp (handout)
25	03/26/18	Mon	EXAM #2 PRE-REVIEW	Open Lab	
26	03/28/18	Wed	EXAM #2	No Lab	
27	03/30/18	Fri	EXAM #2 POST-REVIEW	Arduino 4:pwm	Prj 9: bigsmall.cpp (handout)
28	04/02/18	Mon	Array sorting	Arduino 4:pwm	
29	04/04/18	Wed	File I/O (331-351)	Arduino 4:pwm	
30	04/06/18	Fri	Array example BigNum part 1	Arduino 5:single digit down-clr-up	Prj 10: modefile.cpp (handout)
31	04/09/18	Mon	Array example BigNum part 2	Arduino 5:single digit down-clr-up	
32	04/11/18	Wed	2D arrays (232-240)	Arduino 5:single digit down-clr-up	APR 11 = LAST DAY TO W
33	04/13/18	Fri	Strings part 1 (276-283)	Arduino 6: fixed-four-digit	Prj 11: eee.cpp (handout)
	04/16/18	Mon	NO CLASSES - PATRIOTS DAY	No Lab	
34	04/18/18	Wed	Strings part 2 (276-283)	Arduino 6: fixed-four-digit	
35	04/20/18	Fri	File I/O with strings (331-351)	Arduino 7: four-digit-pots	Prj 12:stutestnames.cpp (handout)
36	04/23/18	Mon	formatted output, sprintf/sscanf (313-326)	Arduino 6: fixed-four-digit	
37	04/25/18	Wed	EXAM #3 PRE-REVIEW	Arduino 7: four-digit-pots	
38	04/27/18	Fri	EXAM #3	No Lab	Extra Credit: baseconversion.cpp
39	04/30/18	Mon	SINGLE MAKE UP EXAM	Arduino 7: four-digit-pots	