

Date: October 14, 2020

MEMORANDUM: Course Adjustments for Dual Majoring in ECE/SCS or SCS/ECE
Class of 2019 and Beyond

ECE/SCS SCS/ECE	4/c F	4/ S	3/c F	3/c S	2/c F	2/C S	1/c F	1/c S
Core	NS101,2		NN210,2	NE203,3		NL310,3	NL400,2	NS43X,2
	SC111,4	SC112,4	SP211,4	SP212,4		NN310,2		EW300,3
	SM121,4 (validate)	HE112,3						EW360/EW481 X/EW482X, 1
	SM122,4	SI110,3						
	HE111,3	FP130,3				HH215,3	HH216,3	Hum/SS2,3
	NL110,2 HH104,3						Hum/SS 1,3	
Division I		SM221,4 [SM223,4]	SM212,4 [Free Elective]		EM316,3 [EM300,4] See Note 1.			EM317,3 [EA/N4XY,4]
Division II				SM342, 3 See Note 7	EE353, 3 See Note 5,7			
SCS/ECE overlap / common courses			IC210,4 [SI204,4] See Note 6		IC312,3 [SI221,3]		CE MJ EL1, 3 (CS MJ EL3, 3) See Note 8, 9	IC480,3 or EC415, 3 based on primary major. See Note 2 and 3.
			EE221,4 (EE301,4)	EC362,4 (IC220,3) See Note 10		EC356,4 (IC322,3) Note 5		CS MJ EL2,3 [CE MJ EL2, 3] See Note 4
SCS				IC211,3	SI340,3	SI335,3	SI413,3	
				IC221,3		CS MJ EL1, 3	IC411, 3 IC470,3	
ECE			EC262,4	EC244,4	EC361,4		EE411,3 or CE MJ EL3,3 based on primary major. See Note 3.	CE MJ EL1 or CE MJ EL 3 but not CE MJ EL2,3 Note 4
					EE322,4			
Credits	18	17	22	24	20	21	20	21

(Blue) = courses from the SCS matrix that are replaced by the substitute shown in the same cell.

(Red) = courses from the ECE matrix that are replaced by the substitute shown in the same cell

Note 1: The sequence EM316 and EM317 and completion of the ECE major (Group 1) replaces the sequence EM300 and EA/N4XY from the SCS matrix

Note 2: Where two credit totals are given as n/m, n applies when SCS is the primary major and m when ECE is the primary major.

Note 3: ECE/SCS majors take EE411, while SCS/ECE majors take an additional CE major elective in lieu of EE411.

Note 4: The restricted SCS elective listed under CS MJ EL2 in MIDS counts for CE MJ EL 2; The 3rd CE elective can be any course listed under CE MJ EL1 or CE MJ EL3 in MIDS but not EC404 or listed under CE MJ EL 2 (cannot be an SCS course)

Note 5: For students interested in Computer and Network Security (IT430), please move EE353 and EC356 as early as possible.

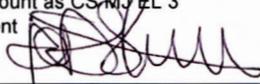
Note 6: SI204 can count for IC210 and IC210 counts for SI204

Note 7: SM242 (4) Discrete Math for SCS is replaced by SM342 (3) Discrete Math + EE353 (3) Probability with Applications to EE

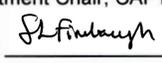
Note 8: EC404 Operating Systems cannot be taken as CE MJ EL1, since IC411 Operating Systems is already required for SCS

Note 9: The CE electives listed under CE MJ EL1 in MIDS, with the exception of EC404 count as CS MJ EL 3

Note 10: ECE/SCS or SCS/ECE majors can take EC362 without EC361 prereq requirement

Submitted: Electrical and Computer Engineering Department Chair, CAPT John Stevens  14 Oct 20

Submitted: Computer Science Department Chair, CAPT Michael Bilzor  16 Oct. 2020

Approved: APAA Samara Firebaugh  22 Oct 2020