

DUAL MAJOR (CS & CPE)

COMBINED Computer Science & Computer Engineering Curriculum

Major	Major credits	68	Total credits	134
CS 111x	Intro Programming	3	Math	Credits 18
CS 2110	Software Devlpmnt Meth	3		
CS 2102	Discrete Math	3	APMA 1110	Single Variable Calculus 4
ECE 2630 %	ECE Fundamentals I	4	APMA 2120	Multivariable Calculus 4
ECE 2660 %	ECE Fundamentals II	4	APMA 2130	Ordinary Diff EQ 4
CS 2150	Program/Data Rep	3	APMA 3100	Probability 3
ECE/CS 2330	Digital Logic Design	3	APMA #	Choose 3080 or 3120 3
ECE 3750 %	ECE Fundamentals III	4		
CS 3240	Advanced SW Devlpmnt	3	SEAS requirements & Electives	48
ECE 3430	Intro Embedded Comp Sys	4	STS 1010	Intro Lang, Comm & Tech 3
CS/ECE 4457	Computer Networks	3	STS 2--	STS Elective (2000 or above) 3
CS 4414	Operating Systems	3	STS 4500	STS & Engineering Practice 3
ECE 4435**	Comp Arch and Design	4.5	STS 4600	Engr Ethics & Prof Respsblty 3
ECE 4440	Embed'd Sys Dsgn (MDE)	4.5	CHEM 1610	Intro Chem. Engineers (& Lab) 4
CS Capstone	CS 4980 or CS 4971	3	ENGR 1620/21	Introduction to Engineering 4
CS 3102	Theory of Computation	3	MTH/SCI	Math/Science Elective 3
CS 4102	Algorithms	3	PHYS 1425	Physics I & Lab 4
CS 2190 #	CS Seminar	1	PHYS 2415	Physics II & Lab 4
CS	CS Elective (3000 or above)	3	5 HSS #	Humanities & Social Sci. Elect. 15
CS	CS Elective (3000 or above)	3	1 UE	Unrestricted Elect. (see notes) 2
CS	CS Elective (3000 or above)	3		

* ECE 4440 counts as 1 CS elective and an exception must be recorded in SIS

** ECE 4435 counts in lieu of CS 3330 (cannot take both) and must be recorded as an exception in SIS

% ECE 2630, 2660 and 3750 count as 12 credits of Unrestricted Electives for CS

CS 2190 counts as 1 UE credit for CpE

2 of the 5 HSS electives required for CS count as Unrestricted electives for CpE

CpE requires 4 CS/ECE electives: 3102, 4102 & CS capstone count as 3 of them

CS requires 5 electives: 4457 and 4440 count as 2 of them

APMA elective (3080 or 3120) counts as unrestricted elective for CpE

Students are advised to double check the CS handbook for the specific rules pertaining to electives.

Note that double majors do two capstones

JBDugan Fall 2018

reflects change from science elective to math/science elective in 2nd semester