

Electrical Engineering Digital/VLSI Track

Possible 4 Year Course Plan

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING
Math / Science Requirements											
CALCULUS I MATH 251		LIN ALG MATH 261	DIF EQ I MATH 256			CALC IV MATH 254				APPL STAT STAT 451	
CHEM CH 221 227		PHYSICS PH 211/221 214			PH 212/222 215	PH 213/223 216	MATH/ SCI ELECT				
Engineering / Computer Science Requirements											
EXPLOR ELEC ECE 101	ENGR COMP ECE 102	ENGR PROGR ECE 103	ELEC CURCUIT ANALYSIS			ELECTRONICS			Track senior electives 4XX		
	DIGI CIRC ECE 171		I ECE 221 221L	II ECE 222 222L	III ECE 223 223L	I ECE 321 321L	II ECE 322 322L	III ECE 323 323L	ASIC ECE 481	ECE 4XX (1)	ECE 4XX (1)
				DIGI SYST ECE 271 271 L		MICRO PROC ECE 371	FOURIER ANALYSIS ECE 312	FEEDBACK CONTROL ECE 311 311 L	DIGI IC DES I ECE 425	Start MS program (2) (2)	
						ENG EMAG I ECE 331	ENG EMAG II ECE 332 332L	HDLs and FPGAs ECE 351	INDSTRY DESIGN PROCSS ECE 411	SR. PROJ DEVL P I ECE 412	S.P.D. II ECE 413
General Education Requirements											
FRESHMAN INQUIRY			SOPHOMORE INQUIRY						CLUSTER:		
UNST 1XX	UNST 1XX	UNST 1XX	UNST 2XX	UNST 2XX	UNST 2XX	TECH RPT WR 327			PRIV PUBLIC INVEST EC 314U	UNST UPPER DIVISION CLUSTER	UNST UPPER DIVISION CLUSTER

(1) List of track specific senior electives:	(2) Continuation to Graduate program:
ECE 415 Fundamentals of Semiconductor Devices	ECE 575 Intro to IC Test Test
ECE 416 IC Technologies	ECE 522 Analog IC Design II
ECE 421 Analog IC Design I	ECE 532 Microwave Circuits II
ECE 426 Digital IC Design II	ECE 551/2 Controls I, II
ECE 428 VLSI Computer-Aided Design	ECE 562 Communication Systems Design II
ECE 431 Microwave Circuits I	+ courses remaining from the left column
ECE 461 Communication Systems Design I	
ECE 483 Low Power Digital IC Design	