## OPTIONS FOR COMPUTER ENGINEERING MAJOR GUIDED ELECTIVES (2023-2024)

Students are required to take 9 hours of major guided electives.

Guidad Floativa Ontion	Pro Poquicito Course
Guided Elective Option	Pre-Requisite Course CE/EE 3320
EE 4325	GE/EE 3320
Introduction to VLSI Design	OF/FF 0040
EE 4330	CE/EE 3310
Integrated Circuit Technology	
EE 4340	CE/EE 3311
Analog Integrated Circuit Analysis and Design	
EE 4360	ENGR 3341 and EE 3302
Digital Communications	
EE 4361	EE 3302
Introduction to Digital Signal Processing	
EE 4365	EE 3302 and ENGR 3341
Introduction to Wireless Communication	
EE 4367	EE 3350 (co-requisite)
Telecommunications Networks	, ,
EE 4342	EE 4310 (co-requisite)
Introduction to Robotics	(
EE 4363	EE 2301
Introduction to Power Electronics	22 2001
EE 4371	CHEM 1311, CE/EE 3310, and
Introduction to MEMS	PHYS 2325/2125
CS 4332	CE/CS/SE 3345
Introduction to Programming Video Games	GE/G5/3E 3343
CS 4334	CE/CS 1337 and MATH 2418
	CE/CS 1337 and MATH 2416
Numerical Analysis	(05/00 0000 00 0007) 05/00 0005
CS 4337	(CE/CS 2336 or CS 2337), CE/CS 2305 and
Organization of Programming Languages	CE/EE 4304
CS 4347	CE/CS/SE 3345
Database Systems	
CS 4352	None
Human Computer Interactions I	
CS 4361	MATH 2418, (CE/CS/ 2336 or CS 2337) and
Computer Graphics	CE/CS/SE 3345
CS 4365	CE/CS/SE 3345
Artificial Intelligence	
CS 4371	(CS 2336 or CS 2337) and CS 4347
Introduction to Bid Data Management and Analytics	
CS 4375	CS/SE 3341 and CE/CS/SE 3345 or Equivalent
Introduction to Machine Learning	•
CS 4384	CS 3305
Automata Theory	2.2.3000
CS 4389	CS/SE 4347
Data & Applications Security	30/02 101/
CS 4390	CE/CS/SE 3345 or Equivalent
Computer Networks	OL/OO/OL 3073 OF Equivalent
CS 4392	Math 2418 and CE/CS/SE 3345 or Equivalent
	main 24 to and GE/GS/SE 3343 of Equivalent
Computer Animation	CE/CE/CE 4240 or Equivalent
CS 4393	CE/CS/SE 4348 or Equivalent
Computer and Network Security	05/00/05 4040 1 05/00 1000 5
CS 4398	CE/CS/SE 4348 and CE/CS 4390 or Equivalent
Digital Forensics	ng may be used only if it is a scheduled appoint topics

CE 4V95 Undergraduate Topics in Computer Engineering may be used only if it is a scheduled special topics class (not independent study).

Independent Study in Computer Engineering (CE 4V97), Undergraduate Research in Computer Engineering (CE 4V98), or Senior Honors in Computer Engineering (CE 4399) may be used for up to 6 of these hours with consent of the department. Please consult your Academic Advisor for more information.

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