

	A	B	C	D	E
1	UCLA Undergraduate Electrical Engineering Course Planning DUY NGUYEN				
2	FIRST YEAR (2024 - 2025)				
3	FALL 2024 (12)	WINTER 2025 (13)	SPRING 2025 (10)	SUMMER 2025	
4	EC-03 (4) - LOW #1	EC-111 (4) - LOW #4	EC-111 (4) - REQ #4 (spring)		
5	EC-03 (4) - LOW #3	CS-M51A (4) - LOW #5	EC-113 (4) - REQ #5 (fall, spring)		
6	EC-102 (4) - REQ #2	CS-33 (4) - LOW #6	JAPAN-50 - GE #1 (5) (P/NP)		
7		MATH-75XP (2) (P/NP)			
8					
9	SECOND YEAR (2025 - 2026)				
10	FALL 2025 (12)	WINTER 2026 (12)	SPRING 2026 (12)	SUMMER 2026 (online)	
11	EC-131A (4) - REQ #6	EC-141 (4) - CORE #5 (fall, winter)	EC-132A (4) - CORE #3 (winter, spring)	P-Blocks Internship	
12	EC-101A (4) - REQ #1 (fall, winter)	EC-M146 (4) - ELECTIVE #1 (winter, spring)	EC-110 (4) - REQ #2 (spring)	Youtube Dream Team	
13	ENGR-195 (2)	ENGR-195 (2)	ENGR-195 (2)	Software Defined Radios	
14	SRP-99 (2)	SRP-99 (2)	SRP-99 (2)	Graduate School Preparation	
15					
16					
17	THIRD YEAR (2026 - 2027)				
18	FALL 2026 (12)	WINTER 2027 (12)	SPRING 2027 (12)	SUMMER 2027	
19	EC-239AS (4) Elective #2	ECE-230A Elective #3	ECE-230B Elective #4	NSF-REU	
20	EC-115A (4) - CORE #2	181DA, Honors Thesis (4)	181DB, Honors Thesis (4)		
21	ENGR-195 (4)	ENGR-195 (4)	ENGR-195 (4)		
22					
23	FOURTH YEAR (2027 - 2028)				
24	FALL 2027 (12)	WINTER 2028	SPRING 2028	SUMMER 2028 (TTD)	
25	EC-133A (4) - CORE #4 (Fall, winter)	EC-101B (4) - CORE #1 (winter, spring)	EC-115C(4) Elective #5 (Winter, Spring)	Research	
26	MATH-61 (4) - TB #1	Math-115A(4) TB #2	Math-115B(4) TB #2		
27	GE-#2 (4) (P/NP)	GE-#3 (4) (P/NP)	GE-#4 (4) (P/NP)		
28		ENGR-2 (2) - ETHICS			
29					
30	EC ENGR LOWER DIV	6 Courses (0)	Prerequisites		
31	EC-03 (4) - LOW #1	Physics for Electrical Engineers	Physics 1C		
32	EC-03 (4) - LOW #3	Intro to Electrical Engineering			
33	EC-10 (1) (audit) - LOW #2	Circuit Theory I	EC-03, Mathematics 33A, Physics 1B		
34	EC-111 (1) - LOW #4	Circuits Laboratory	(COREQUISITE: EC-10)		
35	CS-M51A (4) - LOW #5	Logic Design of Digital Systems			
36	CS-33 (4) - LOW #6	Data Structures and Algorithms	CS-31		
37					
38	EC ENGR REQ	6 Courses (0)	Prerequisites	https://registrar.ucla.edu/academics/course-descriptions?search=EC+ENGR	
39	EC-101A (4) - REQ #1 (fall, winter)	Engineering Electromagnetics	Mathematics 32A and 32B		
40	EC-102 (4) - REQ #2 (fall)	Systems and Signals	Mathematics 33A		
41	EC-110 (4) - REQ #3 (spring)	Circuit Theory II	EC-10, EC-M51A, EC-102		
42	EC-111L (1) - REQ #4 (spring)	Circuits Lab II	EC-10, EC-11L (COREQUISITE: EC-110)		
43	EC-113 (4) - REQ #5 (fall, spring)	Digital Signal Processing	EC-102		
44	EC-131A (4) - REQ #6 (A8: 6/22-8/15)	Probability and Statistics	Mathematics 32B, 33B.		
45					
46	EC ENGR CORE	5 Courses (3)	Prerequisites		
47	EC-101B (4) - CORE #1	Engineering Electromagnetics	EC-101A		
48	EC-115A (4) - CORE #2	Analog Electronic Circuits I	EC-110		
49	EC-132A (4) - CORE #3	Introduction to Communication Systems	EC-102, EC-113, EC-131A		
50	EC-133A (4) - CORE #4	Applied Numerical Computing	EC-131A, CS-32		
51	EC-141 (4) - CORE #5	Principles of Feedback Control	EC-141		
52					
53	EC ENGR ELECTIVE	3 Courses	Prerequisites		
54	EC-M116C	Computer Systems Architecture	CS-M51A, CS-33		
55	EC-114	Speech and Image Processing (prereq ec-113)	EC-113		
56	EC-115C	Digital Electronic Circuits (prereq EC-115A)	(EC-100 EC-115A) && CS-M51A	required for VLSI grad classes, important according to jason song TA	
57	EC-M117	Computer System Security (=CS-M138) (advisory: cs111)	CS-33 (Recommended : CS-111)		
58	EC-M146	Introduction To Machine Learning	EC-131A, CS-32, Math-33A		
59	EC-C147	Neural Networks and Deep Learning (prereq ec-m146)	EC-131A, EC-133A, 205A		
60	EC-C143A (Fall)	Neural Signal Processing and Machine Learning			
61	EC-C147A (winter)	Neural Networks and Deep Learning			
62	EC-C147B (spring)	Neural Networks and Deep Learning II			
63	EC-115B	115B — Analog Electronic Circuits II	115A		
64	EC-115C	115C — Digital Electronic Circuits	115A		
65	EC-M116C	Computer Systems Architecture	CS33 and CS-M51A Recommended: courses 111, and M152A or Electrical and Computer Engineering M116L.		
66	EC-ENGR-121B	Principles of Semiconductor Device Design			
67	EC-M152A	Introductory Digital Design Laboratory			
68					
69	CAPSTONE DESIGN COURSE	2 Courses	Prerequisites		
70	EC-113 - DA (4) (fall)	Digital Signal Processing Design	EC-113		

	A	B	C	D	E
71	EC 113 - DW (4) (winter)	Digital Signal Processing Design	EC 113		
72	181DA. Honors Thesis (4)	Honors Thesis			
73	181DB. Honors Thesis (4)	Honors Thesis			
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75					
76	Tech Breadth - CS	3 Courses	Prerequisites	https://registrar.ucla.edu/academics/course-descriptions?search=Computer+Science	
77	Math 61	Discrete Structures			
78	CS 111 (fall, winter, spring, summer)	Operating Systems	CS 32, 33, 35L		
79	CS 117	Computer Networks: Physical			
80	CS 118	Computer Networks: Fundamental	CS 111		
81	CS M119	Fundamentals of Embedded Networked Systems			
82	CS 132	Compiler Construction			
83	CS 133	Parallel and Distributed Computing			
84	CS 134	Distributed Systems			
85	CS 136	Introduction to Computer Security	CS 118	maybe good?	
86	CS M138	Computer System Security	cs33 (CS 111 recommended)	maybe good? (also an ee course)	
87	CS m146	Intro to Machine Learning			
88	CS 161	Fundamentals of Artificial Intelligence	CS 180		
89	CS M151B (fall, winter, spring)	Computer Systems Architecture (EC M116C)	cs33, m51a (111 recommended)	Important according to jason song for IC design	
90	CS 162 (winter, spring)	Natural Language Processing	CS M146		
91	CS 163	Deep Learning for Computer Vision	CS M146, EE 149		
92	CS 180 (fall, winter, spring, summer)	Introduction to Algorithms and Complexity	CS 32, Math 61		
93	CS 183 (spring)	Introduction to Cryptography	CS 180		
94	CS 161 (fall, spring)	Fundamentals of Artificial Intelligence			
95					
96	Tech Breadth - Math	3 Courses	Prerequisites		
97	Math 61	Discrete Structures			
98	https://ww3.math.ucla.edu/courses/		ucla math course offerings		
99	Math 115A: Linear Algebra	Linear Algebra	Requisite: course 33A Linear algebra		
100	Math 115B: Linear Algebra	Linear Algebra	Requisite: course 115A.		
101	Math 110A: Algebra	Algebra	course 115A		
102	Math 131A: Analysis	Analysis	courses 32B, 33B. Recommended: course 115A.		
103	Math 132: Complex Analysis for Applications	Complex Analysis	Requisites: courses 32B, 33B.		
104	Math 134: Linear and Nonlinear Systems of Differential Equations	Differential Equations	course 33B.		
105	Math 142: Mathematical Modeling	Mathematical Modeling	Prerequisites: courses 32B, 33B.		
106	Math 151A: Applied Numerical Methods	Applied Numerical Methods	Requisites: courses 32B, 33B, 115A, Program in Computing 10A		
107	Math 164: Optimization	Optimization	Requisite: course 115A, 131A.		
108	Math 167: Mathematical Game Theory	Mathematical Game theory	Requisite: course 115A.		
109	Math 171: Stochastic Processes	Stochastic processes	Requisites: courses 33A, 170A (or Statistics 100A)		
110	Math 180: Graph Theory	Graph theory	courses 31A, 31B, and 61.		
111					
112					
113	General Education	4 Courses	Foundations of the arts and humanities		
114	Japan 50	Foundations of the arts and humanities	> Literary & Cultural Analysis		
115		Foundations of the arts and humanities	> Philosophical and Linguistic Analysis		
116		Historical Analysis	> Visual & Performance Arts		
117	Footbill - ANTH 002A	Social Analysis			
118	Anthropology?	Life Science			