

Recommended Course Plan: Computer Engineering

Regular Study Plan

Year 1	Fall	
<u>ENG202</u>	Advanced Academic English	3
<u>PHY201</u>	Electricity & Magnetism	3
<u>MTH201</u>	Calculus III	3
<u>MTH207</u>	Discrete Structures I	3
<u>GNE212</u>	Engineering Mechanics	3
<u>COE201</u>	Computer Proficiency	1
		16

Spring		
<u>COE211</u>	Computer Programming	4
—	Liberal Arts & Sciences Elective	3
<u>MTH301</u>	Linear Algebra	3
<u>MTH304</u>	Differential Equations	3
<u>MTH206</u>	Calculus IV	3
		16

Summer		
---	Liberal Arts & Sciences Elective	3
---	Liberal Arts & Sciences Elective	3
<u>LAS212</u>	Communication in the Age of AI	3
		9

Year 2	Fall	
—	Liberal Arts & Sciences Elective	3
<u>COE321</u>	Logic Design	3
<u>GNE331</u>	Probability and Statistics	3
<u>COE312</u>	Data Structures	3
<u>ELE300</u>	Electric Circuits	3
<u>ELE303</u>	Electrical Circuits Lab	1
		16

Spring		
<u>ELE401</u>	Electronics I	3
<u>ELE402</u>	Electronics I Lab	1
<u>COE313</u>	Data Structures lab	1
<u>ELE430</u>	Signals and Systems	3
<u>COE323</u>	Microprocessors	3
<u>COE415</u>	Computer Programming II	3
<u>COE322</u>	Logic Design Lab	1
		15

Summer		
<u>GNE303</u>	Engineering Ethics	2
<u>GNE301</u>	Professional Communication	2
<u>INE320</u>	Engineering Economy	3
		7

Year 3	Fall	
<u>COE423</u>	Computer Architecture	3
<u>COE418</u>	Database Systems	3
GNE...	SOE Signature Course	3
<u>COE324</u>	Microprocessors Lab	1
<u>COE493</u>	Professionalism in Engineering	3
<u>ELE537</u>	Communication Systems	3
<u>COE415B</u>	Computer Programming II Lab	1
		17

Spring		
<u>COE424</u>	Digital Systems	3
—	COE Elective 1	3
—	COE Elective 2	3
<u>ELE540</u>	Communication Systems Lab	1
<u>COE546</u>	Machine Learning	3
<u>COE416</u>	Software Engineering	3
		16

Summer		
<u>COE498</u>	Professional Experience	6
		6

Year 4 Fall

COE425	Digital Systems Lab	1
COE595	Capstone Design Project I	3
ELE442	Control Systems	3
COE593	COE Application	3
—	COE Elective 3	3
COE521	Embedded Systems	3
ELE443	Control Systems Lab	1
		17

Spring

COE431	Computer Networks	3
—	ECE Elective 1	3
—	ECE Elective 2	3
COE596	Capstone Design Project II	3
—	COE Elective 4	3
		15

Total 150

Study Plan with Extended Experiential Learning

Year 1 Fall

ENG202	Advanced Academic English	3
PHY201	Electricity & Magnetism	3
MTH201	Calculus III	3
MTH207	Discrete Structures I	3
GNE212	Engineering Mechanics	3
COE201	Computer Proficiency	1
		16

Spring

COE211	Computer Programming	4
—	Liberal Arts & Sciences Elective	3
MTH301	Linear Algebra	3
MTH304	Differential Equations	3
MTH206	Calculus IV	3
		16

Summer

—	Liberal Arts & Sciences Elective	3
---	Liberal Arts & Sciences Elective	3
LAS212	Communication in the Age of AI	3
		9

Year 2 Fall

—	Liberal Arts & Sciences Elective	3
COE321	Logic Design	3
GNE331	Probability and Statistics	3
COE312	Data Structures	3
ELE300	Electric Circuits	3
ELE303	Electrical Circuits Lab	1

Spring

ELE401	Electronics I	3
ELE402	Electronics I Lab	1
COE313	Data Structures lab	1
ELE430	Signals and Systems	3
COE323	Microprocessors	3
COE415	Computer Programming II	3
COE322	Logic Design Lab	1

Summer

GNE303	Engineering Ethics	2
GNE301	Professional Communication	2
INE320	Engineering Economy	3

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Year 3 Fall

COE423	Computer Architecture	3
COE418	Database Systems	3
GNE...	SOE Signature Course	3
COE324	Microprocessors Lab	1
COE493	Professionalism in Engineering	3
ELE537	Communication Systems	3
COE415B	Computer Programming II Lab	1
		17

Spring

COE424	Digital Systems	3
—	COE Elective 1	3
—	COE Elective 2	3
ELE540	Communication Systems Lab	1
COE546	Machine Learning	3
COE416	Software Engineering	3
		16

Summer

COE498	Professional Experience	6
		6

Year 4 Fall

Extended Experiential Learning

Spring

COE431	Computer Networks	3
—	ECE Elective 1	3
—	ECE Elective 2	3
COE595	Capstone Design Project I	3
—	COE Elective 4	3
		15

Year 5 Fall

COE425	Digital Systems Lab	1
COE596	Capstone Design Project II	3
ELE442	Control Systems	3
COE593	COE Application	3
—	COE Elective 3	3
COE521	Embedded Systems	3
ELE443	Control Systems Lab	1
		17