

ELECTRICAL ENGINEERING (EE) BS DEGREE
EE Four-Year Study Plan With Prerequisites

Freshman Year

Course	Title	LT	LB	CR	Pre-Requisites	Course	Title	LT	LB	CR	Pre-Requisites				
MATH 101	Calculus I	4	0	4	None	MATH 102	Calculus II	4	0	4	MATH-101				
PHYS 101	General Physics I	3	3	4	MATH 101-CR	PHYS 102	General Physics II	3	3	4	PHYS-101				
CHEM 101	General Chemistry I	3	3	4	None	CSE 101	Introduction to Computer Programming	2	3	3	None				
ENGL 101	Introduction to Academic Discourse	3	0	3	None	ENGL 102	Introduction to Report Writing	3	0	3	ENGL-101				
AIS 101	Language Foundation	2	0	2	None	AIS 111	Belief & Its Consequences	2	0	2	None				
Total					15	6	17	Total					14	6	16

Sophomore Year

Course	Title	LT	LB	CR	Pre-Requisites	Course	Title	LT	LB	CR	Pre-Requisites				
CSE 201	Digital Logic Design	3	3	4	PHYS 102	EE 202	Electric Circuits II	3	3	4	EE 201				
EE 201	Electric Circuits I	3	3	4	MATH 102, PHYS 102	EE 203	Electronics I	3	3	4	EE 201				
MATH 201	Calculus III	3	0	3	MATH-102	MATH 202	Differential Equations	3	0	3	MATH 201				
ENGL 201	Academic & Professional Communication	3	0	3	ENGL 102	STAT 200	Eng. Probability & Statistics	2	3	3	MATH 102				
PRO 201	Engineering Profession I	2	0	2	None	AIS 211	Ethics and Governance	2	0	2	AIS-111				
AIS 201	Professional Writing	2	0	2	AIS-101										
Total					16	6	18	Total					13	9	16

Junior Year

Course	Title	LT	LB	CR	Pre-Requisites	Course	Title	LT	LB	CR	Pre-Requisites				
MATH 203	Linear Algebra	3	0	3	MATH 102	EE 303	Electrical Energy Engineering	3	3	4	EE 202				
CSE 203	Introduction to Data Science	2	3	3	CSE 101, STAT 200	EE 304	Control Engineering I	3	3	4	EE 301				
EE 301	Signals & Systems	3	0	3	EE 201	EE 305	Electromagnetics	2	3	3	EE 202				
EE 302	Electronics II	2	3	3	EE 203	SOS xxx	Social Science Elective I	3	0	3	None				
AIS 301	Effective Language Communication	2	0	2	AIS-201	XXX xxx	Free Elective I	3	0	3	None				
PRO 301	Engineering Profession II	2	0	2	PRO 201										
Total					14	6	16	Total					14	9	17

Summer Session

EE 399	Summer Training	0	0	0
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Senior Year

Course	Title	LT	LB	CR	Pre-Requisites	Course	Title	LT	LB	CR	Pre-Requisites				
EE 401	Communication Engineering I	3	3	4	EE 203, EE 301	EE 4xx	EE Elective I	3	0	3	As per opted elective				
EE 402	Digital Systems Engineering	2	3	3	CSE 101, CSE 201	EE 4xx	EE Elective II	3	0	3	As per opted elective				
SOS xxx	Social Science Elective II	3	0	3	None	XXX xxx	Free Elective III	3	0	3	None				
XXX xxx	Free Elective II	3	0	3	None	PRO 401	Engineering Profession III	2	0	2	PRO 301				
AIS 311	Human Rights in Islam	2	0	2	AIS 211	EE 492	Senior Design Project II	4	0	4	EE-491				
EE 491	Senior Design Project I	2	0	2	Senior Standing										
Total					15	6	17	Total					15	0	15

Total Credit Hours 132