

Alfaisal University

BS in EE | Study Plan Summary | Effective: Fall 2026

4 Year Curriculum: 133 Credit Hours Total

Freshman Year - Fall Semester		
Course Code	Course-Title	CRHs
CoE 100	Student Orientation & Academic Success	1
SE 100	Programming for Engineers	3
SE 100 L	Programming for Engineers Lab	1
MAT 101	Calculus I	3
PHU 103	Physics I	3
PHU 103 L	Physics I Lab	1
ENG 101	University Writing	3
	Total	15

Sophomore Year - Fall Semester		
Course Code	Course-Title	CRHs
EE 207	Foundations of Electrical Engineering	3
EE 207 L	Foundations of Electrical Engineering Lab	1
MAT 211	Calculus III	3
MAT 212	Linear Algebra	3
MAT 213	Differential Equations	3
ENG 222	Technical Writing	3
	Total	16

Junior Year - Fall Semester		
Course Code	Course-Title	CRHs
EE 301	Signals and Systems	3
EE 303	Intro to Electronics	3
EE 303 L	Intro to Electronics Lab	1
EE 305	Computer Networks	3
EE 305 L	Computer Networks Lab	1
EE 307	Computer Architecture	3
EE 307 L	Computer Architecture Lab	1
	University Requirement	3
	Total	18

Junior Year – Summer Semester		
Course Code	Course-Title	CRHs
EE 390	Electrical Engineering Summer Internship	0
	Total	0

Senior Year - Fall Semester		
Course Code	Course-Title	CRHs
EE 495	Electrical Engineering Capstone Project I	3
EE 405	Electric Power Systems	3
EE 413	Digital Communications	3
EE 413 L	Digital Communications Lab	1
4**TE	EE Elective	3
4**TE	EE Elective	3
	Total	16

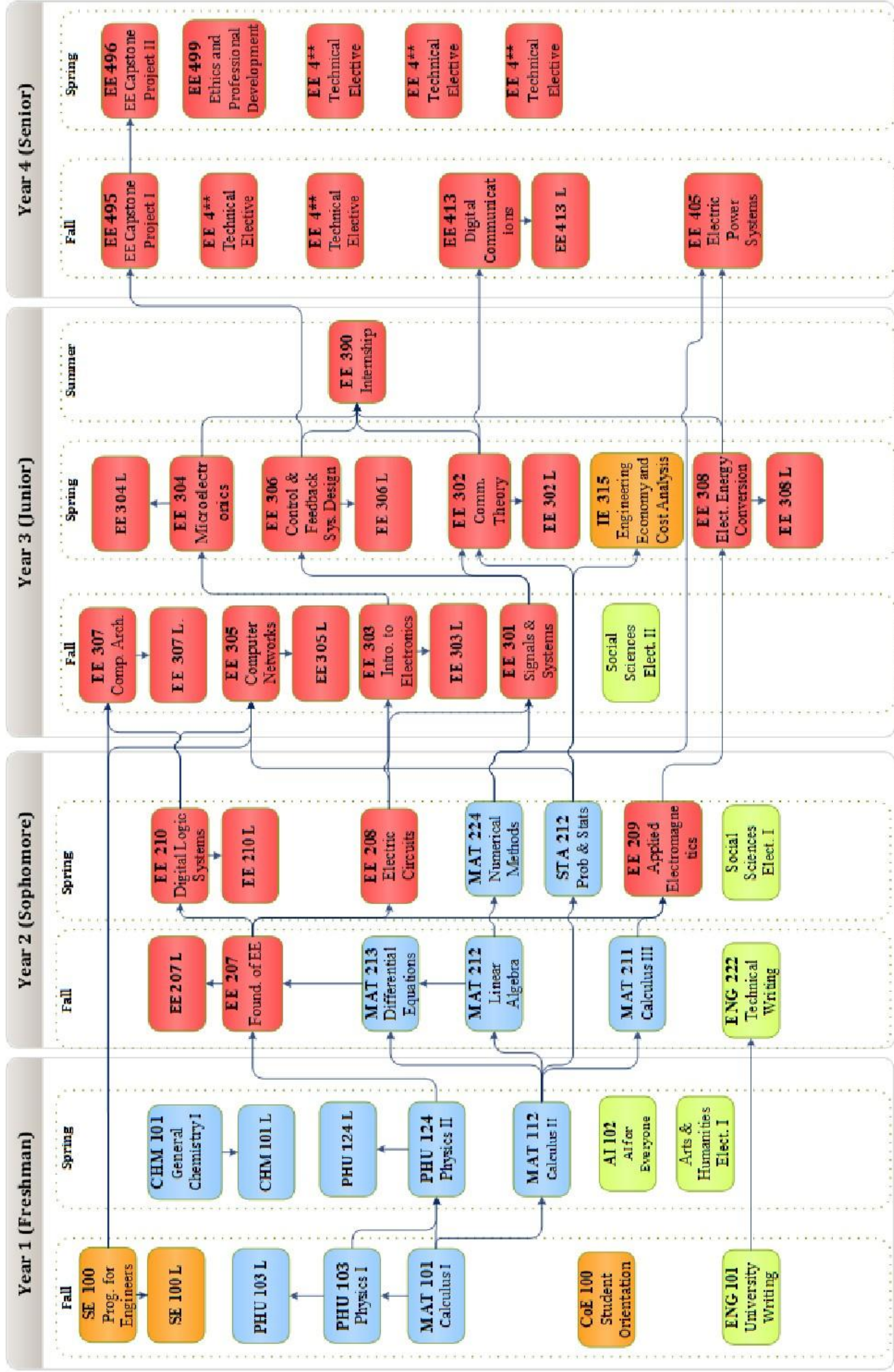
Freshman Year - Spring Semester		
Course Code	Course-Title	CRHs
CHM 101	General Chemistry I	3
CHM 101 L	General Chemistry I Lab	1
MAT 112	Calculus II	3
PHU 124	Physics II	3
PHU 124 L	Physics II Lab	1
AI 102	AI for Everyone: Foundation and Applications	3
	University Requirement	3
	Total	17

Sophomore Year - Spring Semester		
Course Code	Course-Title	CRHs
EE 208	Electric Circuits	3
EE 209	Applied Electromagnetics	3
EE 210	Digital Logic Systems	3
EE 210 L	Digital Logic Systems Lab	1
MAT 224	Numerical Methods	3
STA 212	Probability and Statistics	3
	University Requirement	3
	Total	19

Junior Year - Spring Semester		
Course Code	Course-Title	CRHs
EE 302	Communications Theory	3
EE 302 L	Communications Theory Lab	1
EE 304	Microelectronics	3
EE 304 L	Microelectronics Lab	1
EE 306	Control and Feedback System Design	3
EE 306 L	Control and Feedback System Design Lab	1
EE 308	Electrical Energy Conversion	3
EE 308 L	Electrical Energy Conversion Lab	1
IE 315	Engineering Economy and Cost Analysis	3
	Total	19

Senior Year - Spring Semester		
Course Code	Course-Title	CRHs
EE 496	Electrical Engineering Capstone Project II	3
4**TE	EE Elective	3
4**TE	EE Elective	3
4**TE	EE Elective	3
EE 499	Ethics and Professional Development	1
	Total	13

# EE Department – B.S. Program Prerequisites Chart – Fall 2026



Note: Each EE 4\*\* EE technical elective has its own prerequisite from the third year courses, refer to the study plan.