

CULLEN COLLEGE OF ENGINEERING TECHNOLOGY DIVISION

Bachelor of Science, Electrical Power Engineering Technology

Four-Year Academic Map 2023-2024

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total
	ELET 1400	Circuit Theory I & Lab	4	ELET 1401	Circuit Theory II & Lab	4	
	MATH 2413	Calculus I	4	MATH 2414	Calculus II	4	
	ENGL 1301	First Year Writing I	3	ENGL 1302	First Year Writing II	3	
	PHYS 1301/1101	College Physics I & Lab	4	PHYS 1302/1102	College Physics II & Lab	4	
	Semester Hours		15	Semester Hours		15	30

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total
	ELET 2301/2101	Poly-Phase Circuits & Transformers/Lab	4	ELET 2305/2105	Semiconductor Dev & Circuits /Lab	4	
	ELET 3307/3107	Electrical Machines & Lab	4	ELET 2303/2103	Digital Systems & Lab	4	
	ELET 3300 or MATH 3321	Applied Math for ET or Engineering Mathematics	3	ELET 2300	Introduction to C++ Programming	3	
	HIST 1301	U. S. to 1877	3	HIST 1302	U.S. since 1877	3	
	CORE	Language, Philosophy & Culture	3	CORE	Creative Arts	3	
	Semester Hours		17	Semester Hours		17	34

YEAR 3	Semester 1 Fall			Semester 2 Spring			Total
	ELET 3301	Linear Systems Analysis	3	ELET 4303/4103	Power Distribution & Transportation/Lab	4	
	ELET 3405	Microprocessor Architecture	4	ELET 3312/3112	PLCs & Motor Control/Lab	4	
	TLIM 3363	Technical Communication	3	TLIM 3340	Org Leadership & Supervision	3	
	MECT 1365	Elements of Materials & Processes	3	MECT elec	See advisor	3	
	CORE	Social & Behavioral Sciences	3	ELET Elective	ELET approved Elective	3	
	Semester Hours		16	Semester Hours		17	33

YEAR 4	Semester 1 Fall			Semester 2 Spring			Total
	ELET 4317	Elect. Systems Safety & Protect	3	ELET 4319	Elect. Power Sys & Industry Prac	3	
	ELET 4305	Senior Design in Electrical Power Engineering Technology	3	ELET 4105	Senior Design in Electrical Power Engineering Technology Lab	1	
	ELET 4326/4126	Power Converter Circuits & Lab	4	ELET Elective	ELET approved Elective	3	
	GOVT 2306	US & Texas Constitution & Politics	3	GOVT 2305	Federal Government	3	
	MECT 4188	Ethics in Engineering	1	Free Elective		3	
	Semester Hours		14	Semester Hours		13	27
							124

Courses in Bold are important prerequisites and should be taken as early as students are able.
Students should meet with their academic advisor to formulate their own plan.