

# 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	
	<b>ELET 1400</b>	<b>Circuit Theory I &amp; Lab</b>	<b>4</b>	<b>ELET 1401</b>	<b>Circuit Theory II &amp; Lab</b>	<b>4</b>		
	<b>MATH 2413</b>	<b>Calculus I</b>	<b>4</b>	<b>MATH 2414</b>	<b>Calculus II</b>	<b>4</b>		
	<b>ENGL 1301</b>	<b>First Year Writing I</b>	<b>3</b>	<b>ENGL 1302</b>	<b>First Year Writing II</b>	<b>3</b>		
	<b>PHYS 1301/1101</b>	<b>College Physics I &amp; Lab</b>	<b>4</b>	<b>PHYS 1302/1102</b>	<b>College Physics II &amp; Lab</b>	<b>4</b>		
	Semester Hours			15	Semester Hours			15

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total	
	<b>ELET 2301/2101</b>	<b>Poly-Phase Circuits &amp; Transformers/Lab</b>	<b>4</b>	<b>ELET 2305/2105</b>	<b>Semiconductor Dev &amp; Circuits /Lab</b>	<b>4</b>		
	<b>ELET 3307/3107</b>	<b>Electrical Machines &amp; Lab</b>	<b>4</b>	<b>ELET 2303/2103</b>	<b>Digital Systems &amp; Lab</b>	<b>4</b>		
	ELET 3300 or MATH 3321	Applied Math for ET or Engineering Mathematics	3	<b>ELET 2300</b>	<b>Introduction to C++ Programming</b>	<b>3</b>		
	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	<b>ELET 4303/4103</b>	<b>Power Distribution &amp; Transportation/Lab</b>	<b>4</b>		
	ELET 3405	Microprocessor Architecture	4	<b>ELET 3312/3112</b>	<b>PLCs &amp; Motor Control/Lab</b>	<b>4</b>		
	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	<b>ELET 4319</b>	<b>Elect. Power Sys &amp; Industry Prac</b>	<b>3</b>		
	ELET 4305	Senior Design in Electrical Power Engineering Technology	3	<b>ELET 4105</b>	<b>Senior Design in Electrical Power Engineering Technology Lab</b>	<b>1</b>		
	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.