

# CULLEN COLLEGE OF ENGINEERING

## Engineering in Sugar Land

### Bachelor of Science, Electrical Power Engineering Technology

#### Four-Year Academic Map 2026-2027

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total	
	<b>ENGI 1100</b>	<b>Introduction to Engineering</b>	<b>1</b>	<b>ENGI 1331</b>	<b>Computing For Engineers</b>	<b>3</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>		
	<b>CORE</b>	<b>Creative Arts</b>	<b>3</b>	<b>CORE</b>	<b>Language, Philosophy &amp; Culture</b>	<b>3</b>		
	Semester Hours			Semester Hours				32

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total	
	<b>*ELET 1300</b>	<b>Circuit Theory I &amp; Lab</b>	<b>3</b>	<b>*ELET 1401</b>	<b>Circuit Theory II &amp; Lab</b>	<b>4</b>		
	<b>*ELET 2300</b>	<b>Introduction to C++ Program</b>	<b>3</b>	<b>*ELET 2303/2103</b>	<b>Digital Systems &amp; Lab</b>	<b>4</b>		
	<b>*ELET 3300</b>	<b>Applied Math for ET</b>	<b>3</b>	<b>*TLIM 3363</b>	<b>Technical Communication</b>	<b>3</b>		
	<b>CORE</b>	<b>Social &amp; Behavioral Sciences</b>	<b>3</b>	<b>*TLIM 3340</b>	<b>Org Leadership &amp; Supervision</b>	<b>3</b>		
	<b>CORE</b>	<b>American History</b>	<b>3</b>	<b>GOVT 2305</b>	<b>Federal Government</b>	<b>3</b>		
	Semester Hours			Semester Hours				32

YEAR 3	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 3301</b>	<b>Linear Systems Analysis</b>	<b>3</b>		
	<b>*ELET 3307/3107</b>	<b>Electrical Machines &amp; Lab</b>	<b>4</b>	<b>*ELET 3312/3112</b>	<b>PLCs &amp; Motor Control/Lab</b>	<b>4</b>		
	<b>*ELET 2305/2105</b>	<b>Semiconductor Dev &amp; Circuits &amp; Lab</b>	<b>4</b>	<b>*ELET 4303/4103</b>	<b>Power Distribution &amp; Transportation/Lab</b>	<b>4</b>		
	<b>*ELET 3405</b>	<b>Microprocessor Architecture</b>	<b>4</b>	<b>CORE</b>	<b>American History</b>	<b>3</b>		
				<b>GOVT 2306</b>	<b>US &amp; Texas Constitution &amp; Politics</b>	<b>3</b>		
Semester Hours			Semester Hours			33		

YEAR 4	Semester 1 Fall			Semester 2 Spring			Total	
	<b>*ELET 4317</b>	<b>Elect. Systems Safety &amp; Protect</b>	<b>3</b>	<b>*ELET 4319</b>	<b>Elect. Power Sys &amp; Industry Prac</b>	<b>3</b>		
	<b>*ELET 4305</b>	<b>Senior Design in Electrical Power Engineering Technology</b>	<b>3</b>	<b>*ELET 4105</b>	<b>Senior Design in Electrical Power Engineering Technology Lab</b>	<b>1</b>		
	<b>*ELET 4326/4126</b>	<b>Power Converter Circuits &amp; Lab</b>	<b>4</b>	<b>*ELET Elective</b>	<b>ELET approved Elective</b>	<b>3</b>		
	<b>*ELET 4310</b>	<b>Alternate Energy Sources</b>	<b>3</b>	<b>*ELET Elective</b>	<b>ELET approved Elective</b>	<b>3</b>		
	<b>*MECT 4188</b>	<b>Ethics in Engineering</b>	<b>1</b>	<b>Free Elective</b>		<b>3</b>		
Semester Hours			Semester Hours			27		
						124		

\*Offered at UH Sugar Land campus.

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.