

# CULLEN COLLEGE OF ENGINEERING TECHNOLOGY DIVISION

## Bachelor of Science, Mechanical Engineering Technology

### Four-Year Academic Map 2025-2026

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total
	<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>MATH 2413</b>	<b>Calculus I</b>	<b>4</b>	<b>MATH 2414</b>	<b>Calculus II</b>	<b>4</b>	
	<b>PHYS 1301/1101</b>	<b>College Physics I &amp; Lab</b>	<b>4</b>	<b>PHYS 1302</b>	<b>College Physics II</b>	<b>3</b>	
	HIST 1301	U.S. to 1877	3	CHEM 1305/1105	Foundations of Chemistry I & Lab	4	
	GOVT 2305	US Government	3	GOVT 2306	US & TX Constitution & Politics	3	
	Semester Hours			17	Semester Hours		17

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total
	<b>*MECT 2354</b>	<b>Introduction To Mechanics</b>	<b>3</b>	<b>*MECT 1364</b>	<b>Materials &amp; Processes I</b>	<b>3</b>	
	<b>*MECT 1330</b>	<b>Engineering Graphics</b>	<b>3</b>	<b>*MECT 3358</b>	<b>Dynamics of Mechanisms</b>	<b>3</b>	
	HIST 1302	U.S. since 1877	3	*ELET 3300	Applied Math in ET	3	
	CORE	Creative Arts	3	CORE	Social & Behavioral Science	3	
	CORE	Language, Philosophy & Culture	3	*ELET 2300	Introduction to C++ Program	3	
	Semester Hours			15	Semester Hours		15

YEAR 3	Semester 1 Fall			Semester 2 Spring			Total
	<b>*MECT 3331</b>	<b>Applied Thermodynamics</b>	<b>3</b>	<b>*MECT 3342</b>	<b>Elements of Plant Design</b>	<b>3</b>	
	<b>*MECT 3355/3155</b>	<b>Strength of Materials &amp; Lab</b>	<b>4</b>	<b>*MECT 3365</b>	<b>Computer-Aided Design</b>	<b>3</b>	
	<b>*MECT 3318/3118</b>	<b>Fluid Mechanic Applications &amp; Lab</b>	<b>4</b>	*MECT 3367	Quality Control Technology	3	
	*ELET 2307	Electrical-Electronic Circuits	3	*MECT 3360	Automated Manufacturing Sys	3	
	*TLIM 3363	Technical Communication	3	*TLIM 3340	Org Leadership & Supervision	3	
	Semester Hours			17	Semester Hours		15

YEAR 4	Semester 1 Fall			Semester 2 Spring			Total
	<b>*MECT 4275</b>	<b>Senior Design Project</b>	<b>2</b>	*MECT 4276	Senior Design Project	2	
	*MECT 4372/4172	Materials Technology & Lab	4	*MECT 4188	Ethics in Engineering	1	
	*MECT 4331/4131	Heat Transfer Applications & Thermal Sciences Lab	4	*MECT Elective		3	
	*MECT Elective		3	*MECT Elective		3	
	*MECT Elective		3	Elective	Free Elective	3	
	Semester Hours			16	Semester Hours		12
							124

Courses in Bold are important prerequisites and should be taken as early as students are able.

\*Offered at UH Sugar Land campus.

Students should meet with their academic advisor to formulate their own plan.