

CULLEN COLLEGE OF ENGINEERING

Engineering in Sugar Land

Bachelor of Science, Mechanical Engineering Technology

Four-Year Academic Map 2026-2027

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total
	ENGI 1100	Introduction to Engineering		ENGI 1331	Computers in Engineering	3	
	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	College Physics II	3	
	CORE	Creative Arts	3	CHEM 1305/1105	Foundations of Chemistry I & Lab	4	
	Semester Hours			15	Semester Hours		17

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total
	*MECT 2354	Introduction To Mechanics	3	*MECT 1330	Engineering Graphics	3	
	*MECT 1364	Materials & Processes I	3	*MECT 3355/3155	Strength of Materials & Lab	4	
	*ELET 3300	Applied Math in ET	3	*MECT 3358	Dynamics of Mechanisms	3	
	CORE	Social & Behavioral Science	3	*ELET 2307	Electrical-Electronic Circuits	3	
	CORE	American History	3	CORE	American History	3	
	Semester Hours			15	Semester Hours		16

YEAR 3	Semester 1 Fall			Semester 2 Spring			Total
	*MECT 3331	Applied Thermodynamics	3	*MECT 3342	Elements of Plant Design	3	
	*MECT 3318/3118	Fluid Mechanic Applications & Lab	4	*MECT 3365	Computer-Aided Design	3	
	*MECT 3360	Automated Manufacturing Sys	3	*MECT 3367	Quality Control Technology	3	
	*TLIM 3363	Technical Communication	3	*TLIM 3340	Org Leadership & Supervision	3	
	CORE	Language, Philosophy & Culture	3	GOVT 2305	US Government	3	
	Semester Hours			16	Semester Hours		15

YEAR 4	Semester 1 Fall			Semester 2 Spring			Total
	*MECT 4375	Senior Design Project	3	*MECT 4376	Senior Design Project	3	
	*MECT 4372/4172	Materials Technology & Lab	4	*MECT Elective		3	
	*MECT 4331/4131	Heat Transfer Applications & Thermal Sciences Lab	4	*MECT Elective		3	
	*MECT 4188	Ethics in Engineering	1	*MECT Elective		3	
	GOVT 2306	US & TX Constitution & Politics	3	Elective	Free Elective	3	
	Semester Hours			15	Semester Hours		15
							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.