Engineering (B.S.) — Mechanical Engineering — Foreign Language 2024-2025 Academic Catalog, Bachelor of Science — Engineering, Mechanical Engineering Track, Global Emphasis: Foreign Language

Academic Core for B.S. 53 H CHRISTIAN STUDIES		3 Hours	Engineerin	g 81 F	81 Hours
		•	B.S. FNGINFF	B.S. ENGINEERING MAJOR REQUIRED COURSES	
		<u>6</u>	ENGR 2311	Numerical Algorithms	28
CSBS 1311	Engaging the Old Testament	3	ENGR 2320	Engineering Mechanics: Statics	3
CSBS 1312	Engaging the New Testament	3	ENGR 2321	Engineering Mechanics: Dynamics	3
ENGLISH		9	ENGR 2130	Electric Circuits Laboratory	1
	DI		ENGR 2330	Electrical Circuit Theory	3
ENGL 1321	Rhetoric & Composition I	3	ENGR 2345	Engineering Thermodynamics	3
ENGL 1322	Rhetoric & Composition II	3	ENGR 3360	Engineering Design: Engineering for Humanity	3
ENGL	Literature	3	ENGR 4370	Computer Science & Engineering Ethics Seminar	
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 1322		ENGR 4380	Capstone Design I	3
EXERCISE & SPORT SCIENCE – SELECT TWO DIFFERENT COURSES		2	ENGR 4381	Capstone Design II	3
		1			
EXAC	Activity Course		MECHANICAL	. ENGINEERING TRACK	20
EXAC	Activity Course	1	ENGR 3130	Electronics Laboratory	1
FINE ARTS — SE	I FCT ONE	3	ENGR 3315	Mechanical Design	3
			ENGR 3320	Mechanics of Materials	3
ARTS 1350	Art Appreciation	3	ENGR 3346	Advanced Thermodynamics	3
COMM 2335	Film Appreciation	3	ENGR 4150	Fluid Mechanics Laboratory	1
FINA 2330	Exploring the Fine Arts	3	ENGR 4340	Principles of Heat Transfer	3
MUSI 1340	Music Appreciation	3	ENGR 4350	Fluid Mechanics	3
THEA 2350	Theatre Appreciation	3	ENGR 3381	Introduction to Material Science	3
111LA 2330	певи е Арргесівиоп	3			
WORLD CULT	URES – SELECT ONE	3		G UPPER-LEVEL ELECTIVES – SELECT TWO	ε
ARTS 2354	World Art	3	CISC 3321	Object Oriented Development	3
EXSS 2353	Lifespan Nutrition	3	ENGR 3365	Introduction to Optics	3
GLBL 2310	Cultural Immersion	3	ENGR 4310	Vibrations	3
HIST 1311	History of World Civilizations to 1500	3	ENGR 4320	System Dynamics and Control	3
HIST 1312	History of World Civilizations since 1500	3	ENGR 4325	Radio Frequency Circuit	3
HUMA 2355	Foundations of the Humanities	3	ENGR 4335	Introduction to Aerospace Engineering	3
MUSI 2358	World Music	3	ENGR 4365	Mechatronics	3
		3	ENGR 4391	Special Topics	3
PHIL 2315	Introduction to Philosophy	3		' '	
LAB SCIENCE		8		JPPORT COURSES	27
PHYS 2421	Physics and Calculus I	4	CISC 2330	Introduction to Object-Oriented Programming	3
			ENGR 1310	Introduction to Engineering	3
PHYS 2422	Physics and Calculus II	4	ENGR 1320	Introduction to Engineering Fundamentals	3
PUBLIC SPEAKING		3	ENGR 2010	AutoCAD Proficiency	0
			ENGR 4090	Practical Experience	0
COMM 1320	Public Speaking	3	MATH 2320	Linear Algebra	3
			MATH 2430	Calculus II	4
MATHEMATICS		4	MATH 3325	Ordinary Differential Equations	3
MATH 1430	Calculus I	4	MATH 3430	Calculus III	4
SOCIAL SCIEN	CE – SELECT ONE	3	CHEM 1410	General Chemistry I	4
				,	
BECO 2310 DEVC 1201	Principles of Economics Conoral Psychology	3			
PSYC 1301	General Psychology	3 3	Total Hours		
PSYC 2399	Child and Adolescent Development		Academic Core	for B S	45
SOCI 1311	Introduction to Sociology	3		is – Foreign Language	43
SOCW 2311	Introduction to Social Work	3		g Major Required Courses	28
us lustopy s	DE LIC CONFERNIATINE CELECT ONE	_	_		20
	OR US GOVERNMENT – SELECT ONE	3	Mechanical En		
HIST 2311	American History to 1877	3	0 0 1	oper Level Electives	6
HIST 2312	American History since 1877	3	Required Supp		27
POLS 2305	United States Government	3	Total hours red	quired for graduation	134
POLS 2306	Texas State and Local Government	3			
		_		duation Requirements	
RESEARCH METHODS OR INTERNSHIP		0	Minimum Upper Level hours		36
ENGR 4090		0		rs taken at UMHB	30
FRESHMAN SEMINAR		4		er Level hours taken at UMHB	24
		1	Minimum cum	ulative GPA	2.0
UMHB 1101	Freshman Seminar	1			
GLOBAL FMPI	HASIS – FOREIGN LANGUAGE	8			
	2 semesters or the equivalent) in one language				
CHAPEL-1 to 4	credits				
UMHB 1002	Chapel				
שווויוע 1007	Chapei				
Fine Arts Experi	ence – 2 to 8 credits				
IMHR 1005	Fine Arts Experience				

UMHB 1005 Fine Arts Experience