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

Academic Core for B.S. 48 H CHRISTIAN STUDIES		8 Hours	Engineerin	g 81 F	81 Hours
		6	B.S. ENGINEERING MAJOR REQUIRED COURSES		28
		<u>6</u>	ENGR 2311	Numerical Algorithms	
CSBS 1311	Engaging the Old Testament	3	ENGR 2320	Engineering Mechanics: Statics	
CSBS 1312	Engaging the New Testament	3	ENGR 2321	Engineering Mechanics: Dynamics	
NCHEL		9	ENGR 2130	Electric Circuits Laboratory	
NGLISH			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	2.	ENGR 4380	Capstone Design I	3
EVEDOICE & COORT COIENCE CELECT TAKO DIFFERENT COLUMNS		2	ENGR 4381	Capstone Design II	3
	DRT SCIENCE – SELECT TWO DIFFERENT COURSES	2	ENGIN 1301	eapstone Besign ii	•
EXAC	Activity Course	1	MECHANICAL	. ENGINEERING TRACK	20
EXAC	Activity Course	1	ENGR 3130	Electronics Laboratory	- :
		_	ENGR 3315	Mechanical Design	3
FINE ARTS — SE	LECT ONE	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
	· · · · · · · · · · · · · · · · · · ·		ENGR 4350	Fluid Mechanics	3
MUSI 1340	Music Appreciation	3	ENGR 4330 ENGR 3381	Introduction to Material Science	3
THEA 2350	Theatre Appreciation	3	FIAGI 2201	introduction to Material Science	-
WORLD CULT	URES – SELECT ONE	3	ENGINEERING	G UPPER-LEVEL ELECTIVES – SELECT TWO	ϵ
ARTS 2354	World Art	3	CISC 3321	Object Oriented Development	9
EXSS 2353	Lifespan Nutrition	3	ENGR 3365	Introduction to Optics	3
GLBL 2310	Cultural Immersion	3	ENGR 4310	Vibrations	3
			ENGR 4320	System Dynamics and Control	3
HIST 1311	History of World Civilizations to 1500	3	ENGR 4325	Radio Frequency Circuit	3
HIST 1312	History of World Civilizations since 1500	3	ENGR 4335	Introduction to Aerospace Engineering	3
HUMA 2355	Foundations of the Humanities	3	ENGR 4365	Mechatronics	3
MUSI 2358	World Music	3			3
PHIL 2315	Introduction to Philosophy	3	ENGR 4391	Special Topics	3
LAB SCIENCE		8	REQUIRED SU	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
DUDUCCDEAVING		_	ENGR 2010	AutoCAD Proficiency	C
PUBLIC SPEAKIN		3	ENGR 4090	Practical Experience	C
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
	OF CELECT ONE	_	CHEM 1410	General Chemistry I	4
	CE – SELECT ONE	<u>3</u>	CHEWI 1410	General Chemistry i	7
BECO 2310	Principles of Economics	3			
PSYC 1301	General Psychology	3	Total Hours		
PSYC 2399	Child and Adolescent Development	3		for D.C.	4-
SOCI 1311	Introduction to Sociology	3	Academic Core		45
SOCW 2311	Introduction to Social Work	3		is – Study Abroad	3
			_	g Major Required Courses	28
US HISTORY OR US GOVERNMENT – SELECT ONE		3		gineering Track	20
HIST 2311	American History to 1877	3		oper Level Electives	ϵ
HIST 2312	American History since 1877	3	Required Supp		27
POLS 2305	United States Government	3	Total hours red	quired for graduation	129
POLS 2306	Texas State and Local Government	3			
			Additional Grad	duation Requirements	
RESEARCH METHODS OR INTERNSHIP		0	Minimum Upper Level hours		36
ENGR 4090		0	Minimum hour	s taken at UMHB	30
EDECLINAAN CENAINAD		_	Minimum Uppe	er Level hours taken at UMHB	24
FRESHMAN SEN		1	Minimum cum	ulative GPA	2.0
JMHB 1101	Freshman Seminar	1			
GLOBAL EMPI	HASIS – STUDY ABROAD	3			
	Study Abroad	3			
CHADEL 1: -	,				
CHAPEL-1 to 4					
UMHB 1002	Chapel				
Fine Arts Experi	ence – 2 to 8 credits				
IMHR 1005					

UMHB 1005 Fine Arts Experience