Engineering (B.S.) — Mechanical Engineering — Foreign Language 2022-2023 Academic Catalog, Bachelor of Science — Engineering, Mechanical Engineering Track, Global Emphasis: Foreign Language

Academic Core for B.S. 44 F CHRISTIAN STUDIES		4 Hours	Engineering B.S. ENGINEERING MAJOR REQUIRED COURSES		
		6			28
CSBS 1311	Engaging the Old Testament	3	ENGR 2311	Numerical Algorithms	3
CSBS 1312	Engaging the New Testament	3	ENGR 2320	Engineering Mechanics: Statics	3
			ENGR 2321	Engineering Mechanics: Dynamics	3
ENGLISH		9	ENGR 2130	Electric Circuits Laboratory	1
ENGL 1321	Rhetoric & Composition I	3	ENGR 2330	Electrical Circuit Theory	3
ENGL 1322	Rhetoric & Composition II	3	ENGR 2345	Engineering Thermodynamics	3
ENGL	Literature	3	ENGR 3160	Engineering Design: Bio-Inspired Design	1
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 1322		ENGR 3260	Engineering Design: Engineering for Humanity	2
			ENGR 4370	Computer Science & Engineering Ethics Seminar	3
EXERCISE & SPORT SCIENCE		2	ENGR 4380	Capstone Design I	3
EXAC	Activity Course	1	ENGR 4381	Capstone Design II	3
EXAC	Activity Course	1	MECHANICAL	L ENGINEERING TRACK	20
FINE ARTS — SELECT ONE		3	ENGR 3130	Electronics Laboratory	1
			ENGR 3315	Mechanical Design	3
ARTS 1350	Art Appreciation	3	ENGR 3320	Mechanics of Materials	3
COMM 2335	Film Appreciation	3	ENGR 3346	Advanced Thermodynamics	3
FINA 2330	Exploring the Fine Arts	3	ENGR 4150	Fluid Mechanics Laboratory	1
MUSI 1340	Music Appreciation	3	ENGR 4340	Principles of Heat Transfer	3
THEA 2350	Introduction to the Theatre	3	ENGR 4350	Fluid Mechanics	3
			ENGR 3381	Introduction to Material Science	3
WORLD CULT ARTS 2354	World Art	3	ENGINEERING	G UPPER-LEVEL ELECTIVES – SELECT TWO	6
EXSS 2353		3	CISC 3321	Object Oriented Development	3
HIST 1311	Lifespan Nutrition	3	ENGR 3365	Introduction to Optics	3
	History of World Civilizations to 1500	3	ENGR 4310	Vibrations	3
HIST 1312	History of World Civilizations since 1500		ENGR 4320	System Dynamics and Control	3
MUSI 2358	World Music	3 3	ENGR 4325	Radio Frequency Circuit	3
PHIL 2315	Introduction to Philosophy	3	ENGR 4365	Mechatronics	3
LAB SCIENCE		8	ENGR 4391	Special Topics	3
PHYS 2421	Physics and Calculus I	4			
PHYS 2422	Physics and Calculus II	4		JPPORT COURSES	25
11113 2422	Triysics and Calculus II	4	CISC 2330	Introduction to Object-Oriented Programming	3
PUBLIC SPEAKI	NG	3	ENGR 1310	Introduction to Engineering	3
COMM 1320	Public Speaking	3	ENGR 1320	Introduction to Engineering Fundamentals	3
CO1VIIVI 1320	Table Speaking	3	ENGR 2010	AutoCAD Proficiency	0
MATHEMATICS	5	3	ENGR 4090	Practical Experience	0
MATH 1330	Calculus I	3	MATH 2320	Linear Algebra	3
			MATH 2330	Calculus II	3
SOCIAL SCIEN	ICE – SELECT ONE	3	MATH 3325	Ordinary Differential Equations	3
BECO 2310	Principles of Economics	3	MATH 3330	Calculus III	3
PSYC 1301	General Psychology	3	CHEM 1410	General Chemistry I	4
PSYC 2399	Child and Adolescent Development	3			
SOCI 1311	Introduction to Sociology	3	T-4-111		
SOCW 2311	Introduction to Social Work	3	Total Hours	1 00	
LIC HICTORY OR LIC COVERNMENT. CELECT ONE		_	Academic Core		44
	OR US GOVERNMENT – SELECT ONE	3		is – Foreign Language	8
HIST 2311	American History to 1877	3		g Major Required Courses	28
HIST 2312	American History since 1877	3	Mechanical Engineering Track		20
POLS 2310	State and Federal Government I	3		oper Level Electives	6
POLS 2311	State and Federal Government II	3	Required Supp		25 121
RESEARCH M	ETHODS OR INTERNSHIP	0	rotal nours red	quired for graduation	131
ENGR 4090		0	Additional Grad	duation Requirements	
EDECLINAAN CENINAD		_	Minimum Upper Level hours		36
FRESHMAN SEMINAR		1	Minimum hours taken at UMHB		30
UMHB 1101	Freshman Seminar	1		er Level hours taken at UMHB	24
GLOBAL EMP	HASIS – FOREIGN LANGUAGE	8	Minimum cum	ulative GPA	2.0
	(2 semesters or the equivalent) in one language				
CHAPEL-1 to 4	credits				
UMHB 1002	Chapel				
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Fine Arts Experi	ience – 2 to 8 credits				

Fine Arts Experience