## $Engineering~(B.S.) - Mechanical~Engineering~-~Study~Abroad~\\ {\it 2022-2023~Academic~Catalog,~Bachelor~of~Science~-~Engineering,~Mechanical~Engineering~Track,~Global~Emphasis:~Study~Abroad}$

	Core for B.S. 44 H	lours	Engineerin	_	
CHRISTIAN STUDIES			B.S. ENGINEE	RING MAJOR REQUIRED COURSES	28
CSBS 1311	Engaging the Old Testament	3	ENGR 2311	Numerical Algorithms	
CSBS 1312	Engaging the New Testament	3	ENGR 2320	Engineering Mechanics: Statics	
			ENGR 2321	Engineering Mechanics: Dynamics	
ENGLISH		9	ENGR 2130	Electric Circuits Laboratory	
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	
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	
EXAC	Activity Course	1	ENGR 4381	Capstone Design II	
EXAC	Activity Course	1	MECHANICAL	L ENGINEERING TRACK	2
			ENGR 3130	Electronics Laboratory	
FINE ARTS — SE	ELECT ONE	3	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	-
MUSI 1340	Music Appreciation	3	ENGR 4340	Principles of Heat Transfer	3
THEA 2350	Introduction to the Theatre	3	ENGR 4350	Fluid Mechanics	3
THEA 2550	introduction to the meatre	3	ENGR 3381	Introduction to Material Science	3
WORLD CULT	URES – SELECT ONE	3			
ARTS 2354	World Art	3	ENGINEERING	G UPPER-LEVEL ELECTIVES – SELECT TWO	(
EXSS 2353	Lifespan Nutrition	3	CISC 3321	Object Oriented Development	3
HIST 1311	History of World Civilizations to 1500	3	ENGR 3365	Introduction to Optics	3
HIST 1312	History of World Civilizations since 1500	3	ENGR 4310	Vibrations	3
MUSI 2358	World Music	3	ENGR 4320	System Dynamics and Control	3
PHIL 2315	Introduction to Philosophy	3	ENGR 4325	Radio Frequency Circuit	3
	• •		ENGR 4365	Mechatronics	3
LAB SCIENCE		8	ENGR 4391	Special Topics	3
PHYS 2421	Physics and Calculus I	4	DEOLUBED CI	IDDORT COLIDERS	2
PHYS 2422	Physics and Calculus II	4		JPPORT COURSES	2!
	,		CISC 2330	Introduction to Object-Oriented Programming	
<b>PUBLIC SPEAKI</b>	NG	3	ENGR 1310	Introduction to Engineering	3
COMM 1320	Public Speaking	3	ENGR 1320 ENGR 2010	Introduction to Engineering Fundamentals AutoCAD Proficiency	(
			ENGR 4090	Practical Experience	(
MATHEMATICS		3	MATH 2320	Linear Algebra	3
MATH 1330	Calculus I	3	MATH 2330	Calculus II	3
COCIAL COLEN	ICE CELECT ONE	•	MATH 3325	Ordinary Differential Equations	3
	ICE – SELECT ONE	<u>3</u>	MATH 3330	Calculus III	3
BECO 2310	Principles of Economics	3	CHEM 1410	General Chemistry I	2
PSYC 1301	General Psychology	3	CHEWI 1410	General Gremistry i	
PSYC 2399	Child and Adolescent Development	3			
SOCI 1311	Introduction to Sociology	3	Total Hours		
SOCW 2311	Introduction to Social Work	3	Academic Core	ofor B S	44
US HISTORY OR US GOVERNMENT – SELECT ONE		3	Global Emphasis – Study Abroad		3
HIST 2311	American History to 1877	3		g Major Required Courses	28
HIST 2311	American History since 1877	3	Mechanical Engineering Track		20
POLS 2310	State and Federal Government I	3	Engineering Upper Level Electives		_(
POLS 2311	State and Federal Government II	3	Required Supp		2!
10132311	State and reactar dovernment in	5		quired for graduation	126
RESEARCH M	ETHODS OR INTERNSHIP	0		,	
ENGR 4090		0	Additional Grad	duation Requirements	
			Minimum Upp	•	36
FRESHMAN SEMINAR		1	Minimum hours taken at UMHB		30
UMHB 1101	Freshman Seminar	1		er Level hours taken at UMHB	24
			Minimum cum		2.0
GLOBAL EMP	HASIS – STUDY ABROAD	3			
	Study Abroad	3			
CHADEL 44: 4	Louadita				
CHAPEL-1 to 4					
UMHB 1002	Chapel				
Fine Arts Francis	ience – 2 to 8 credits				
LINAUD 1005	Fire Arts Francisco				

UMHB 1005

Fine Arts Experience