Engineering (B.S.) — Electrical Engineering 2022-2023 Academic Catalog, Bachelor of Science — Engineering, Electrical Engineering Track

Academic Core for B.S. 44 H CHRISTIAN STUDIES		Hours	Engineering		
		6	B.S. ENGINEERING MAJOR REQUIRED COURSES		28
CSBS 1311	Engaging the Old Testament	3	ENGR 2311	Numerical Algorithms	3
CSBS 1311	Engaging the New Testament	3	ENGR 2320	Engineering Mechanics: Statics	3
C3D3 1312	Engaging the New Testament	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 1321	Rhetoric & Composition II	3	ENGR 2345	Engineering Thermodynamics	3
ENGL 1322 ENGL	Literature	3	ENGR 3160	Engineering Design: Bio-Inspired Design	-
		5	ENGR 3260	Engineering Design: Engineering for Humanity	2
A graae oj a C	or higher is required in ENGL 1321 and ENGL 1322.		ENGR 4370	Computer Science & Engineering Ethics Seminar	3
EXERCISE & SPORT SCIENCE		2	ENGR 4380	Capstone Design I	3
			ENGR 4381	Capstone Design II	3
EXAC	Activity Course	1			
EXAC	Activity Course	1	ELECTRICAL E	NGINEERING TRACK	2
FINE ARTS — SELECT ONE		2	ENGR 3130	Electronics Laboratory	
		3	ENGR 3137	Digital Logic Design Laboratory	:
ARTS 1350	Art Appreciation	3	ENGR 3330	Electronics	3
COMM 2335	Film Appreciation	3	ENGR 3337	Digital Logic Design	3
FINA 2330	Exploring the Fine Arts	3	ENGR 4312	Digital Signal Processing	3
			ENGR 4315	Power Systems	3
MUSI 1340	Music Appreciation	3	ENGR 4330	Engineering Electromagnetics	3
THEA 2350	Introduction to the Theatre	3	ENGR 4360	5 5	3
		_	ENGN 4500	Signals and Systems	•
	URES – SELECT ONE	3	FNGINFFRING	G UPPER-LEVEL ELECTIVES – SELECT TWO	(
ARTS 2354	World Art	3	CISC 3321	Object Oriented Development	
EXSS 2353	Lifespan Nutrition	3	ENGR 3365	Introduction to Optics	
HIST 1311	History of World Civilizations to 1500	3		•	
HIST 1312	History of World Civilizations since 1500	3	ENGR 4310	Vibrations	
MUSI 2358	World Music	3	ENGR 4320	System Dynamics and Control	
PHIL 2315	Introduction to Philosophy	3	ENGR 4325	Radio Frequency Circuit	
			ENGR 4365	Mechatronics	3
LAB SCIENCE		8	ENGR 4391	Special Topics	3
PHYS 2421	Physics and Calculus I	4	DEOLUBED CI	IDDORT COLIDERS	-
PHYS 2422	Physics and Calculus II	4		JPPORT COURSES	2
			CISC 2330	Introduction to Object-Oriented Programming	3
PUBLIC SPEAKING		3	ENGR 1310	Introduction to Engineering	3
COMM 1320	Public Speaking	3	ENGR 1320	Introduction to Engineering Fundamentals	3
CONNIN 1320	Table Speaking	3	ENGR 2010	AutoCAD Proficiency	(
MATHEMATICS	;	3	ENGR 4090	Practical Experience	(
MATH 1330	Calculus I	3	MATH 2320	Linear Algebra	3
			MATH 2330	Calculus II	3
SOCIAL SCIEN	CE – 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			
	9,	3	Total Hours		
SOCW 2311	Introduction to Social Work	3	Academic Core	ofor B S	44
US HISTORY OR US GOVERNMENT – SELECT ONE		3		B.S. Engineering Major Required Courses	
		3	Electrical Engin		28 20
HIST 2311	American History to 1877		_	•	
HIST 2312	American History since 1877	3		oper Level Electives	(
POLS 2310	State and Federal Government I	3	Required Supp		2
POLS 2311	State and Federal Government II	3	lotal hours red	quired for graduation	123
DECE 4 DOLL 4 4	ETHORS OR INTERNSTUR	•			
RESEARCH METHODS OR INTERNSHIP ENGR 4090		0	Additional Graduation Requirements		
		0	• •		36
FRESHMAN SEMINAR		1	Minimum hours taken at UMHB		30
		1		er Level hours taken at UMHB	24
UMHB 1101	Freshman Seminar	1	Minimum cum	ulative GPA	2.0
CHAPEL-1 to 4	credits				
UMHB 1002	Chapel				
	a. a. In				
	ence – 2 to 8 credits				
UMHB 1005	Fine Arts Experience				