Engineering (B.S.) — Electrical Engineering — Study Abroad 2022-2023 Academic Catalog, Bachelor of Science – Engineering, Electrical Engineering Track, Global Emphasis: Study Abroad Academic Core for B. S. 44 Hours Engineering

Academic Core for B.S. 44 CHRISTIAN STUDIES		14 Hours	Engineering B.S. ENGINEERING MAJOR REQUIRED COURSES		
		6			28
			ENGR 2311	Numerical Algorithms	3
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
ENCLICH		٥	ENGR 2130	Electric Circuits Laboratory	1
ENGLISH		9	ENGR 2330	Electrical Circuit Theory	3
ENGL 1321	Rhetoric & Composition I	3	ENGR 2345	Engineering Thermodynamics	3
ENGL 1322	Rhetoric & Composition II	3	ENGR 3160	Engineering Design: Bio-Inspired Design	1
ENGL	Literature	3	ENGR 3260	Engineering Design: Engineering for Humanity	2
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 132	2.	ENGR 4370	Computer Science & Engineering Ethics Seminar	3
		_	ENGR 4380	Capstone Design I	3
EXERCISE & SPC	DRT SCIENCE	2	ENGR 4381	Capstone Design II	3
EXAC	Activity Course	1	LIVUI 4301	Capstone Design II	3
EXAC	Activity Course	1	ELECTRICAL E	NGINEERING TRACK	20
FINE ADTC CE	TECTONE	2	ENGR 3130	Electronics Laboratory	1
FINE ARTS — SE		3	ENGR 3137	Digital Logic Design Laboratory	1
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
MUSI 1340	Music Appreciation	3	ENGR 4315	Power Systems	3
			ENGR 4330	Engineering Electromagnetics	3
THEA 2350	Introduction to the Theatre	3	ENGR 4360	Signals and Systems	3
WORLD CULT	URES – SELECT ONE	3	2.70.7.1000	5,6,14,5 4,14 57516115	
ARTS 2354	World Art	3	ENGINEERING	G UPPER-LEVEL ELECTIVES – SELECT TWO	6
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 1311	History of World Civilizations to 1500 History of World Civilizations since 1500	3	ENGR 4310	Vibrations	3
	•	3	ENGR 4320	System Dynamics and Control	3
MUSI 2358	World Music	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			
	•		REQUIRED SU	JPPORT COURSES	25
PHYS 2422	Physics and Calculus II	4	CISC 2330	Introduction to Object-Oriented Programming	3
PUBLIC SPEAKI	NG	3	ENGR 1310	Introduction to Engineering	3
		_	ENGR 1320	Introduction to Engineering Fundamentals	3
COMM 1320	Public Speaking	3	ENGR 2010	AutoCAD Proficiency	0
NAATI IENAATIO	•	•	ENGR 4090	Practical Experience	0
MATHEMATICS MATH 1330	Calculus I	3	MATH 2320	Linear Algebra	3
IVIATH 1550	Calculus I	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		,	
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SOCI 1311	Introduction to Sociology	3	Total Hours		
SOCW 2311	Introduction to Social Work	3	Academic Core	ofor B S	44
LIC HISTORY	OR US GOVERNMENT – SELECT ONE	3		is – Study Abroad	3
HIST 2311	American History to 1877	3		g Major Required Courses	28
	•	3	Electrical Engin	~ .	20
HIST 2312	American History since 1877		_	oper Level Electives	6
POLS 2310	State and Federal Government I	3		·	
POLS 2311	State and Federal Government II	3	Required Supp	quired for graduation	25 126
RESEARCH M	ETHODS OR INTERNSHIP	0	Total Hours rec	quired for graduation	120
ENGR 4090	ETHODS GRANTERINSTIN	0	Additional Grad	duation Requirements	
		-	Minimum Upp	•	36
FRESHMAN SEN	FRESHMAN SEMINAR			rs 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	William Carri	didtive of A	2.0
	Study Abroad	3			
CHAPEL-1 to 4					
UMHB 1002	Chapel				
Fine Arte Evneri	ence – 2 to 8 credits				
UMHB 1005	Fine Arts Experience				
21411 10 1002	Time Arts Experience				