Engineering (B.S.) – Electrical Engineering – Study Abroad

2024-2025 Academic Catalog, Bachelor of Science – Engineering, Electrical Engineering Track, Global Emphasis: Study Abroad Engineering

48 Hours

81 Hours

AcademicC	ore for b.S.	48 Hours
CHRISTIAN STUD	DIES	6
CSBS 1311	Engaging the Old Testament	3
CSBS 1311 CSBS 1312	000	3
C3D3 1312	Engaging the New Testament	5
ENGLISH		9
ENGL 1321	Rhetoric & Composition I	3
ENGL 1322	Rhetoric & Composition II	3
ENGL	Literature	3
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 13.	22.
EXERCISE & SPO	RT SCIENCE - SELECT TWO DIFFERENT COURSE	s 2
EXAC	Activity Course	1
FXAC	Activity Course	- 1
FINE ARTS - SEI	LECT ONE	3
ARTS 1350	Art Appreciation	3
COMM 2335	Film Appreciation	3
FINA 2330	Exploring the Fine Arts	3
MUSI 1340	Music Appreciation	3
THEA 2350	Theatre Appreciation	3
		5
	JRES – SELECT ONE	3
ARTS 2354	World Art	3
EXSS 2353	Lifespan Nutrition	3
GLBL 2310	Cultural Immersion	3
HIST 1311	History of World Civilizations to 1500	3
HIST 1312	History of World Civilizations since 1500	3
HUMA 2355	Foundations of the Humanities	3
MUSI 2358 PHIL 2315	World Music	3
PHIL 2313	Introduction to Philosophy	3
LAB SCIENCE		8
PHYS 2421	Physics and Calculus I	4
PHYS 2422	Physics and Calculus II	4
PUBLIC SPEAKIN	IG	3
COMM 1320	Public Speaking	3
MATHEMATICS		4
MATH 1430	Calculus I	4
SOCIAL SCIEN	CE – SELECT ONE	3
BECO 2310	Principles of Economics	3
PSYC 1301	General Psychology	3
PSYC 2399	Child and Adolescent Development	3
SOCI 1311	Introduction to Sociology	3
SOCW 2311	Introduction to Social Work	3
US HISTORY O	R US GOVERNMENT – SELECT ONE	3
HIST 2311	American History to 1877	3
HIST 2312	American History since 1877	3
POLS 2305	United States Government	3
POLS 2306	Texas State and Local Government	3
RESEARCH ME	THODS OR INTERNSHIP	0
		-
FRESHMAN SEM	Freshman Seminar	<u>1</u>
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GLOBAL EMPH	ASIS – STUDY ABROAD	3
	Study Abroad	3
CHAPEL-1 to 4		
UMHB 1002	Chapel	

Academic Core for B.S.

Lingineering	5 011	ours
B.S. ENGINEER	RING MAJOR REQUIRED COURSES	28
ENGR 2311	Numerical Algorithms	3
ENGR 2320	Engineering Mechanics: Statics	3
ENGR 2321	Engineering Mechanics: Dynamics	3
ENGR 2130	Electric Circuits Laboratory	1
ENGR 2330	Electrical Circuit Theory	3
ENGR 2345	Engineering Thermodynamics	3
ENGR 3360	Engineering Design: Engineering for Humanity	3
ENGR 4370	Computer Science & Engineering Ethics Seminar	3
ENGR 4380	Capstone Design I	3
ENGR 4381	Capstone Design II	3
ELECTRICAL EI	NGINEERING TRACK	20
ENGR 3130	Electronics Laboratory	1
ENGR 3137	Digital Logic Design Laboratory	1
ENGR 3330	Electronics	3
ENGR 3337	Digital Logic Design	3
ENGR 4312	Digital Signal Processing	3
ENGR 4315	Power Systems	3
ENGR 4330	Engineering Electromagnetics	3
ENGR 4360	Signals and Systems	3
ENGINEERING	UPPER-LEVEL ELECTIVES – SELECT TWO	6
CISC 3321	Object Oriented Development	3
ENGR 3365	Introduction to Optics	3
ENGR 4310	Vibrations	3
ENGR 4320	System Dynamics and Control	3
ENGR 4325	Radio Frequency Circuit	3
ENGR 4365	Mechatronics	3
ENGR 4391	Special Topics	3
REQUIRED SU	PPORT COURSES	27
CISC 2330	Introduction to Object-Oriented Programming	3
ENGR 1310	Introduction to Engineering	3
ENGR 1320	Introduction to Engineering Fundamentals	3
ENGR 2010	AutoCAD Proficiency	0
ENGR 4090	Practical Experience	0
MATH 2320	Linear Algebra	3
MATH 2430	Calculus II	4
MATH 3325	Ordinary Differential Equations	3
MATH 3430	Calculus III	4
CHEM 1410	General Chemistry I	4
Total Hours		
Academic Core		45
	s – Study Abroad	3
B.S. Engineering	g Major Required Courses	28
Electrical Engine	eering Track	20
Engineering Up	per Level Electives	6
Required Suppo	ort Courses	27
Total hours req	uired for graduation	129
Additional Grad	uation Requirements	
Minimum Uppe	r Level hours	36
	s taken at UMHB	30
Minimum Uppe	r Level hours taken at UMHB	24
Minimum cumu	Ilative GPA	2.0

Fine Arts Experience – 2 to 8 credits

UMHB 1005 Fine Arts Experience