Engineering (B.S.) – Mechanical Engineering – Study Abroad 2023-2024 Academic Catalog, Bachelor of Science – Engineering, Mechanical Engineering Track, Global Emphasis: Study Abroad Academic Core for B. S. Engineering Study Abroad 81 Hours

Academic Core for B.S. 48 H		48 Hours	Engineering 81 B.S. ENGINEERING MAJOR REQUIRED COURSES		81 Hours
		6			
			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
ENICHELL		0	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 3360	Engineering Design: Engineering for Humanity	3
ENGL	Literature	3	ENGR 4370	Computer Science & Engineering Ethics Seminar	3
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 13	22.	ENGR 4380	Capstone Design I	3
EVEDOICE 8. CDC	ORT SCIENCE - SELECT TWO DIFFERENT COURSE	E 2	ENGR 4381	Capstone Design II	3
EXAC	Activity Course	2 1			
EXAC	·	1		ENGINEERING TRACK	20
EXAC	Activity Course	1	ENGR 3130	Electronics Laboratory	1
FINE ARTS - SE	I FCT ONE	3	ENGR 3315	Mechanical Design	3
			ENGR 3320	Mechanics of Materials	3
ARTS 1350	Art Appreciation	3	ENGR 3346	Advanced Thermodynamics	3
COMM 2335	Film Appreciation	3	ENGR 4150	Fluid Mechanics Laboratory	1
FINA 2330	Exploring the Fine Arts	3	ENGR 4340	Principles of Heat Transfer	3
MUSI 1340	Music Appreciation	3	ENGR 4350	Fluid Mechanics	3
	Introduction to the Theatre	3	ENGR 3381	Introduction to Material Science	3
THEA 2350	introduction to the meatre	3			
	URES – SELECT ONE	3	CISC 3321	G UPPER-LEVEL ELECTIVES – SELECT TWO Object Oriented Development	6
ARTS 2354	World Art	3		Introduction to Optics	
EXSS 2353	Lifespan Nutrition	3	ENGR 3365	•	3
GLBL 2310	Cultural Immersion	3	ENGR 4310	Vibrations	3
HIST 1311	History of World Civilizations to 1500	3	ENGR 4320	System Dynamics and Control	3
HIST 1312	History of World Civilizations since 1500	3	ENGR 4325	Radio Frequency Circuit	3
MUSI 2358	World Music	3	ENGR 4335	Introduction to Aerospace Engineering	3
PHIL 2315	Introduction to Philosophy	3	ENGR 4365	Mechatronics	3
	. ,		ENGR 4391	Special Topics	3
LAB SCIENCE		8	REQUIRED SI	JPPORT COURSES	27
PHYS 2421	Physics and Calculus I	4	CISC 2330	Introduction to Object-Oriented Programming	3
PHYS 2422	Physics and Calculus II	4	ENGR 1310	Introduction to Object-Oriented Programming	3
			ENGR 1310	9 9	3
PUBLIC SPEAKIN	NG	3		Introduction to Engineering Fundamentals	0
COMM 1320	Public Speaking	3	ENGR 2010	AutoCAD Proficiency	
			ENGR 4090	Practical Experience	0
MATHEMATICS	;	4	MATH 2320	Linear Algebra	3
MATH 1430	Calculus I	4	MATH 2430	Calculus II	4
			MATH 3325	Ordinary Differential Equations	3
	CE – SELECT ONE	3	MATH 3430	Calculus III	4
BECO 2310	Principles of Economics	3	CHEM 1410	General Chemistry I	4
PSYC 1301	General Psychology	3			
PSYC 2399	Child and Adolescent Development	3			
SOCI 1311	Introduction to Sociology	3	Total Hours		
SOCW 2311	Introduction to Social Work	3	Academic Core	e for B.S.	45
			Global Emphas	sis – Study Abroad	3
US HISTORY OR US GOVERNMENT – SELECT ONE		3	B.S. Engineerin	g Major Required Courses	28
HIST 2311	American History to 1877	3	Mechanical En	gineering Track	20
HIST 2312	American History since 1877	3	Engineering Up	oper Level Electives	6
POLS 2305	United States Government	3	Required Supp	ort Courses	27
POLS 2306	Texas State and Local Government	3	Total hours red	quired for graduation	129
		_			
ENGR 4090	ETHODS OR INTERNSHIP	0		duation Requirements	26
FIACIV 4030		U	Minimum Upp		36 30
FRESHMAN SEMINAR		1			24
UMHB 1101 Freshman Seminar		1	Minimum cum		2.0
		_			
GLOBAL EMPI	HASIS – STUDY ABROAD Study Abroad	3			
	Stady Abroad	J			
CHAPEL-1 to 4					
UMHB 1002	Chapel				
Fine Arts Experi	ence – 2 to 8 credits				
LIN ALID AGGE	F: 1 . F .				

UMHB 1005

Fine Arts Experience