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

Academic Core for B.S. 44 F		14 Hours	Engineering		
CHRISTIAN STUDIES			B.S. ENGINEE	B.S. ENGINEERING MAJOR REQUIRED COURSES	
CSBS 1311	Engaging the Old Testament	6	ENGR 2311	Numerical Algorithms	
CSBS 1311	Engaging the New Testament	3	ENGR 2320	Engineering Mechanics: Statics	
C3D3 1312	Engaging the New Testament	5	ENGR 2321	Engineering Mechanics: Dynamics	3
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.		2.	ENGR 3260	Engineering Design: Engineering for Humanity	2
			ENGR 4370	Computer Science & Engineering Ethics Seminar	3
EXERCISE & SPC	ORT SCIENCE	2	ENGR 4380	Capstone Design I	3
EXAC	Activity Course	1	ENGR 4381	Capstone Design II	-
EXAC	Activity Course	1	MECHANICAL	. ENGINEERING TRACK	20
FINE ARTS CELECTIONS		_	ENGR 3130	Electronics Laboratory	1
FINE ARTS — SE	LECT 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	1
MUSI 1340	Music Appreciation	3	ENGR 4340	Principles of Heat Transfer	3
THEA 2350	Introduction to the Theatre	3	ENGR 4350	Fluid Mechanics	3
	mar outdoor to the mount	J	ENGR 3381	Introduction to Material Science	3
WORLD CULT	URES – SELECT ONE	3			
ARTS 2354	World Art	3		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 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 ENGR 4365	Radio Frequency Circuit Mechatronics	3
LAD COLENIOS		•	ENGR 4303 ENGR 4391	Special Topics	3
LAB SCIENCE		<u>8</u>	LINGIN 4331	Special Topics	J
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 SPEAKIN	NC.	3	ENGR 1310	Introduction to Engineering	3
			ENGR 1320	Introduction to Engineering Fundamentals	3
COMM 1320	Public Speaking	3	ENGR 2010	AutoCAD Proficiency	C
MATHEMATICS		3	ENGR 4090	Practical Experience	C
MATH 1330	Calculus I	3	MATH 2320	Linear Algebra	3
1411/11/11/11/11/11	Carcaras i	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	Takalilanına		
SOCW 2311	Introduction to Social Work	3	Total Hours	(DC	
LIC LUCTORY O	DE LIC CONFERNMENT CELECT ONE	_	Academic Core		44
	OR US GOVERNMENT – SELECT ONE	<u>3</u>	_	g Major Required Courses	28
HIST 2311	American History to 1877	3	Mechanical Engineering Track Engineering Upper Level Electives		20 6
HIST 2312	American History since 1877 State and Federal Government I	3	9 9 11		
POLS 2310 POLS 2311	State and Federal Government II	3 3		quired for graduation	25 123
POL3 2311	State and Federal Government ii	5	Total Hours rec	quired for graduation	120
RESEARCH ME	ETHODS OR INTERNSHIP	0	Additional Grad	duation Requirements	
ENGR 4090		0	Minimum Upper Level hours		36
			Minimum hours taken at UMHB		30
FRESHMAN SEMINAR		1	Minimum Upper Level hours taken at UMHB		24
UMHB 1101	Freshman Seminar	1	Minimum cum		2.0
CHAPEL-1 to 4	credits				
UMHB 1002	Chapel				
	·				
-	ence – 2 to 8 credits				
UMHB 1005	Fine Arts Experience				