جامعة بيروت العربية
BEIRUT ARAB UNIVERSITY

Department of Mechanical Engineering
Four-year Study Plan
Starting Academic Year 2025-2026

Year 1 — Fall | 18cr · Spring | 18cr · Summer | 6cr

Year 2 — Fall | 18cr · Spring | 18cr · Summer | 6cr

Year 3 — Fall | 17cr · Spring | 18cr · Summer | 2cr

Year 4 — Fall | 16cr · Spring | 13cr

MATH 281 3cr Linear Algebra	MATH 282 3cr Calculus		MATH 283 3cr Differential Equations	MATH 284 3cr Numerical Analysis		MCHE 421 3cr Heat Transfer	MCHE 422 3cr Refrigeration & Air Conditioning	MCHE499 1cr Internship		MCHE 529 3cr Thermal Power Stations		
PHYS 280 3cr Classical Physics		MCHE 321 3cr Thermodynamics I	MCHE 322 3cr Thermodynamics II			MCHE 429L 2cr Thermo-fluids Lab	3cr Technical Elective	BLAW 001 1cr Human Rights		MCHE 531 3cr Pump Technology	MCHE 540 3cr Fluid Thermal System Design	
MCHE 213 3cr Dynamics	CVLE 210 3cr Statics	MCHE 331 3cr Fluid Mechanics I	MCHE 332 3cr Fluid Mechanics II			MCHE 411 3cr Machine Design II	MCHE 418 3cr Dynamic Systems			3cr Technical Elective	MCHE 402 3cr Mechanical Vibrations	
MCHE 201 3cr Engineering Drawing & Graphics	MCHE 216 3cr Dynamics of Machinery I	MCHE 317 3cr Dynamics of Machinery II	MCHE 312 3cr Machine Design I			MCHE 315 2cr Instrumentation & Measurement	MCHE 416 2cr Mechatronics System Design			MCHE 515 2cr Control Systems	ENGR 001 1cr Engineering Ethics	
INME 211 3cr Engineering Materials & Technology		MCHE 311 3cr Mechanics of Materials	MATH 381 3cr Probability & Statistics			MCHE 315L 1cr Instrumentation & Measurement Lab	MCHE 416L 1cr Mechatronics System Design Lab			MCHE 515L 1cr Control Systems Lab	WRNL200 3cr Work Ready Now	
CHEM 241 3cr Principles of Chemistry	PHYS 281 3cr Electricity & Magnetism	2cr General Elective	POWE 211 3cr Electric Circuits (for ME students)	MCHE 214 2cr Fundamentals of Mechatronics		INME 221 3cr Engineering Economy	POWE 335 2cr Electric Drives (for ME students)			3cr Technical Elective		
CHEM 241L 1cr Principles of Chemistry Lab	COMP 208 3cr Programming I	ARAB 001 2cr Arabic Language	MATH 380 3cr Discrete Mathematics	MCHE 214L 1cr Fundamentals of Mechatronics Lab	1cr General Elective	ENGR 500 2cr Research Methodology	3cr Technical Elective			MCHE 501 1cr Final Year Project I	MCHE 502 3cr Final Year Project II	
ENGL 001 2cr General English		ENGL 211 2cr Advanced Writing			ENGL 300 2cr Speech Communications	CHEM 405 2cr Solid State Chemistry						

C = Corequisite

General Education	16 crs.	Eng. Topics from Outside the Major	8 crs.
Basic Sciences and Maths	30 crs.	Mechanical	74 crs.
Common Engineering Topics	17 crs.	Final Year Project & Internship	5 crs.

Starting Fall 25-26