

California Baptist University

Bachelor of Science in Mechanical Engineering (BSME)

Catalog: 2026-2027

133 Total Units

Recommended 4-year sequence sheet for study abroad at UPV (Universitat Politècnica de València)

Fall (Semester 1)			17
Code	Title	#	Units
ENGL1130	English I	3	
ENGR1010	Intro to Engineering	3	
ENGR1220	Visual Languages	3	
ENGR1820	Intro Math for Engr Apps	4	
GNST1000	First Year Experience	1	
ICST1050	Intro to Global Studies	3	

Spring (Semester 2)			18
Code	Title	#	Units
ENGL1230	English II	3	
ENGR1020	Intro to Design	4	
ENGR1200	Python or EGR121 C++	3	
MATH2450	Calculus 1	4	
PHYS2010	Physics 1	4	

Fall (Semester 3)			18
Code	Title	#	Units
ENGR2410	Statics	3	
MATH2550	Calculus II	4	
PHYS2030	Physics II	4	
CHEM1150	General Chemistry I	3	
CHEM1150L	General Chemistry I Lab	1	
CHST1300	New Testament Survey	3	

Spring (Semester 4)			13
Code	Title	#	Units
ENGR2420	Strength of Materials(UPV)	3	
MATH3100	Diff. Equations (UPV)	3	
ENGR 3410	Thermodynamics (UPV)	3	
ENGR3430	Dynamics (UPV)	3	
	Mission Practicum (UPV)	1	

Fall (Semester 5)			16
Code	Title	#	Units
ENGR3060	Internship Prep	1	
ENGR2310	Circuits I	4	
ENGR3440	Materials & MFG Processes	4	
MATH3430	Multivariable Calculus	4	
ENGR3050	Engineering Statistics	3	

Spring (Semester 6)			17
Code	Title	#	Units
ENGR2320	Circuits II	4	
ENGR3020	Engineering Design	3	
ENGR3040	Leadership Cohort	1	
ENGR3420	Fluid Mechanics	3	
ENGR4410	Heat Transfer	3	
CHST3700	The Christian Faith	3	

Fall (Semester 7)			16
Code	Title	#	Units
ENGR3310	Signals and Systems	3	
ENGR3460	Machine Design	3	
ENGR4010	Capstone Design I	3	
ENGR4050	Internship Report	1	
TE (3)	Tech Elective	3	
GE (3)	Gen. Ed	3	

Spring (Semester 8)			18
Code	Title	#	Units
ENGR4020	Capstone Design II	3	
ENGR4310	Control Systems	3	
ENGR4430	Mechanical Vibration	3	
ENGR4440	Mechanical ENGR Lab	3	
ENGR4420	CAD Design	3	
GE (3)	Gen. Ed	3	

Additional Degree Requirements (0 Units)

☐ Successfully take the NCEES FE Exam

☐ Complete pre-approved 200 hours of supervised internship.

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