

California Baptist University

Bachelor of Science in Mechanical Engineering (BSME)

Catalog: 2025-2026

24 Total Units

Recommended courses to be completed by AP

___	ENG113	English I	3
___	ENG123	English II	3
___	MAT245	Calculus 1	4
___	CHE115	General Chemistry I	3
___	CHE115L	General Chemistry I Lab	1
___	MAT255	Calculus II	4
___	GE (3)	Gen. Ed	3
___	GE (3)	Gen. Ed	3

105 Total Units

Recommended 4-year sequence sheet

Fall (Semester 1)			18
Code	Title	# Units	
___ EGR101	Christian Worldview	3	
___ EGR122	Visual Languages	3	
___ EGR182L	Intro Math for Engr Apps	1	
___ GST100		1	
___ ICS105	Intro to Global Studies	3	
___ PHY201	Physics 1	4	
___ EGR241	Statics	3	

Spring (Semester 2)			18
Code	Title	# Units	
___ EGR102	Intro to Design	4	
___ EGR120	Python or EGR121 C++	3	
___ PHY203	Physics II	4	
___ EGR242	Strength of Materials	3	
___ MAT343	Multivariable Calculus	4	

Fall (Semester 3)			18
Code	Title	# Units	
___ EGR306	Internship Prep	1	
___ EGR341	Thermodynamics	3	
___ EGR343	Dynamics	3	
___ EGR344	Materials & MFG Processes	4	
___ EGR382	ODE/Linear Algebra	3	
___ EGR231	Circuits I	4	

Spring (Semester 4)			17
Code	Title	# Units	
___ EGR232	Circuits II	4	
___ EGR302	Engineering Design	3	
___ EGR304	Leadership Cohort	1	
___ EGR342	Fluid Mechanics	3	
___ EGR441	Heat Transfer	3	
___ EGR305	Engineering Statistics	3	

Fall (Semester 5)			16
Code	Title	# Units	
___ EGR331	Signals and Systems	3	
___ EGR346	Machine Design	3	
___ EGR401	Capstone Design I	3	
___ EGR405	Internship Report	1	
___ EGR442	CAD Design	3	
___ CST130	New Testament Survey	3	

Spring (Semester 6)			18
Code	Title	# Units	
___ EGR402	Capstone Design II	3	
___ EGR431	Control Systems	3	
___ EGR443	Mechanical Vibration	3	
___ EGR444	Mechanical ENGR Lab	3	
___ TE (3)	Tech. Elective	3	
___ CST370	The Christian Faith	3	

Additional Degree Requirements (0 Units)

- ☐ Successfully pass the practice FE Exam
- ☐ Complete an approved cross-cultural experience.
- ☐ Complete pre-approved 200 hours of supervised internship.

Print Date: 6/4/2025