

California Baptist University

Bachelor of Science in Mechanical Engineering (BSME)

Catalog: 2025-2026

136 Total Units

Recommended 4-year sequence sheet

Fall (Semester 1) 17		
<u>Code</u>	<u>Title</u>	<u># Units</u>
___ ENG113	English I	3
___ EGR101	Intro to Engineering	3
___ EGR122	Visual Languages	3
___ EGR181	Elem. Math for Engr Apps	4
___ GST100		1
___ ICS105	Intro to Global Studies	3

Spring (Semester 2) 15		
<u>Code</u>	<u>Title</u>	<u># Units</u>
___ ENG123	English II	3
___ EGR102	Intro to Design	4
___ EGR182	Intro Math for Engr Apps	3
___ EGR182L	Intro Math for Engr Apps	1
___ CHE115	General Chemistry I	3
___ CHE115L	General Chemistry I Lab	1

Fall (Semester 3) 18		
<u>Code</u>	<u>Title</u>	<u># Units</u>
___ EGR231	Circuits I	3
___ EGR231L	Circuits I Lab	1
___ EGR241	Statics	3
___ MAT245	Calculus 1	4
___ PHY201	Physics 1	4
___ CST130	New Testament Survey	3

Spring (Semester 4) 18		
<u>Code</u>	<u>Title</u>	<u># Units</u>
___ MAT255	Calculus II	4
___ PHY203	Physics II	4
___ EGR232	Circuits II	3
___ EGR232L	Circuits II Lab	1
___ EGR242	Strength of Materials	3
___ EGR120	Python or EGR121 C++	3

Fall (Semester 5) 17		
<u>Code</u>	<u>Title</u>	<u># Units</u>
___ EGR305	Engineering Statistics	3
___ EGR306	Internship Prep	1
___ EGR341	Thermodynamics	3
___ EGR344	Materials & MFG Processes	4
___ EGR382	ODE/Linear Algebra	3
___ EGR442	CAD Design	3

Spring (Semester 6) 17		
<u>Code</u>	<u>Title</u>	<u># Units</u>
___ EGR302	Engineering Design	3
___ EGR304	Leadership Cohort	1
___ EGR342	Fluid Mechanics	3
___ EGR441	Heat Transfer	3
___ CST370	The Christian Faith	3
___ MAT343	Multivariable Calculus	4

Fall (Semester 7) 16		
<u>Code</u>	<u>Title</u>	<u># Units</u>
___ EGR331	Signals and Systems	3
___ EGR346	Machine Design	3
___ EGR401	Capstone Design I	3
___ EGR405	Internship Report	1
___ EGR343	Dynamics	3
___ GE (3)	Gen. Ed	3

Spring (Semester 8) 18		
<u>Code</u>	<u>Title</u>	<u># Units</u>
___ EGR402	Capstone Design II	3
___ EGR431	Control Systems	3
___ EGR443	Mechanical Vibration	3
___ EGR444	Mechanical ENGR Lab	3
___ TE (3)	Tech. Elective	3
___ GE (3)	Gen. Ed	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

Bachelor of Science in Mechanical Engineering (BSME) Course Flow Chart (136 Units)

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