

California Baptist University

Bachelor of Science in Mechanical Engineering (BSME)

Catalog: 2025-2026

132 Total Units

Recommended 4-year sequence sheet

Fall (Semester 1) 17		
Code	Title	# Units
ENG113	English I	3
EGR101	Intro to Engineering	3
EGR122	Visual Languages	3
EGR182	Intro Math for Engr Apps	3
EGR182L	Intro Math for Engr Apps Lab	1
GST100		1
ICS105	Intro to Global Studies	3

Spring (Semester 2) 18		
Code	Title	# Units
ENG123	English II	3
EGR102	Intro to Design	4
EGR120	Python or EGR121 C++	3
MAT245	Calculus 1	4
PHY201	Physics 1	4

Fall (Semester 3) 15		
Code	Title	# Units
EGR231	Circuits I	3
EGR231L	Circuits I Lab	1
EGR241	Statics	3
MAT255	Calculus II	4
PHY203	Physics II	4

Spring (Semester 4) 17		
Code	Title	# Units
CHE115	General Chemistry I	3
CHE115L	General Chemistry I Lab	1
EGR232	Circuits II	3
EGR232L	Circuits II Lab	1
EGR242	Strength of Materials	3
EGR382	ODE/Linear Algebra	3
CST130	New Testament Survey	3

Fall (Semester 5) 18		
Code	Title	# Units
EGR306	Internship Prep	1
EGR341	Thermodynamics	3
EGR343	Dynamics	3
EGR344	Materials & MFG Processes	4
EGR442	CAD Design	3
MAT343	Multivariable Calculus	4

Spring (Semester 6) 16		
Code	Title	# Units
EGR302	Engineering Design	3
EGR304	Leadership Cohort	1
EGR342	Fluid Mechanics	3
EGR441	Heat Transfer	3
EGR305	Engineering Statistics	3
CST370	The Christian Faith	3

Fall (Semester 7) 16		
Code	Title	# Units
EGR331	Signals and Systems	3
EGR346	Machine Design	3
EGR401	Capstone Design I	3
EGR405	Internship Report	1
TE (3)	Tech. Elective	3
GE (3)	Gen. Ed	3

Spring (Semester 8) 15		
Code	Title	# Units
EGR402	Capstone Design II	3
EGR431	Control Systems	3
EGR443	Mechanical Vibration	3
EGR444	Mechanical ENGR Lab	3
GE (3)	Gen. Ed	3

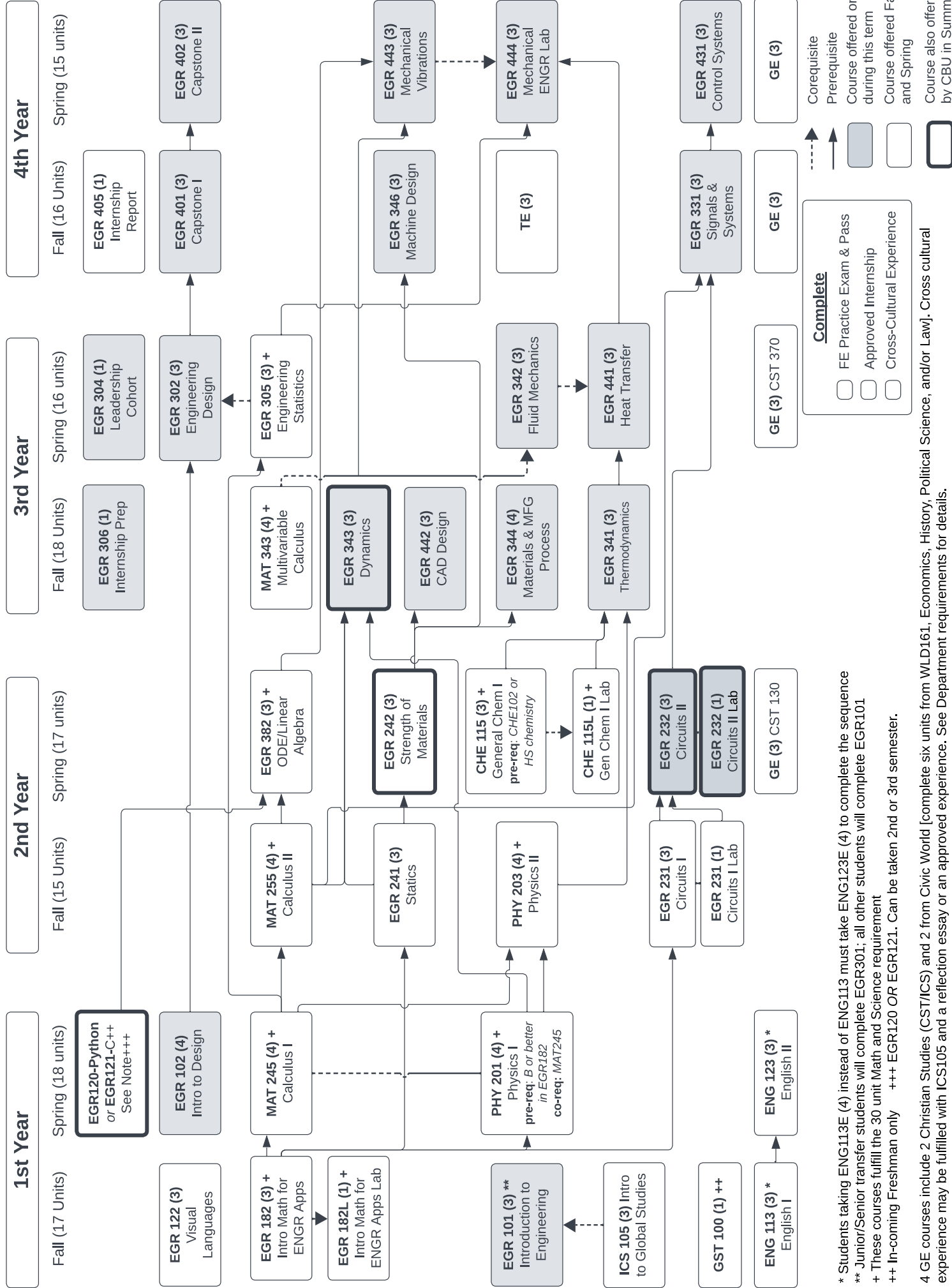
Additional Degree Requirements (0 Units)

- ☐ 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 (132 Units)

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* Students taking ENG113E (4) instead of ENG113 must take ENG123E (4) to complete the sequence
 ** Junior/Senior transfer students will complete EGR301; all other students will complete EGR101
 + These courses fulfill the 30 unit Math and Science requirement
 ++ In-coming Freshman only +++ EGR120 OR EGR121. Can be taken 2nd or 3rd semester.

4 GE courses include 2 Christian Studies (CST/ICS) and 2 from Civic World [complete six units from WLD161, Economics, History, Political Science, and/or Law]. Cross cultural experience may be fulfilled with ICS105 and a reflection essay or an approved experience. See Department requirements for details.