

California Baptist University

Bachelor of Science in Mechanical Engineering (BSME)

Catalog: 2022-2023

131 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	Christian Worldview	3	
___ EGR122	Visual Languages	3	
___ EGR182	Intro Math for Engr Apps	4	
___ GST100		1	
___ ICS105	Intro to Global Studies	3	

Spring (Semester 2)			18
<u>Code</u>	<u>Title</u>	<u># Units</u>	
___ ENG123	English II	3	
___ EGR102	Intro to Design	4	
___ EGR121	C++	3	
___ MAT245	Calculus 1	4	
___ PHY201	Physics 1	4	

Fall (Semester 3)			15
<u>Code</u>	<u>Title</u>	<u># Units</u>	
___ EGR231	Circuits I	4	
___ EGR241	Statics	3	
___ MAT255	Calculus II	4	
___ PHY203	Physics II	4	

Spring (Semester 4)			17
<u>Code</u>	<u>Title</u>	<u># Units</u>	
___ CHE115	General Chemistry I	3	
___ CHE115L	General Chemistry I Lab	1	
___ EGR232	Circuits II	4	
___ EGR242	Strength of Materials	3	
___ EGR382	ODE/Linear Algebra	3	
___ GE (3)	Gen. Ed	3	

Fall (Semester 5)			18
<u>Code</u>	<u>Title</u>	<u># Units</u>	
___ EGR306	Internship Prep	1	
___ EGR341	Thermodynamics	3	
___ EGR343	Dynamics	3	
___ EGR344	Materials & MFG Processes	4	
___ MAT343	Multivariable Calculus	4	
___ GE (3)	Gen. Ed CST/ICS	3	

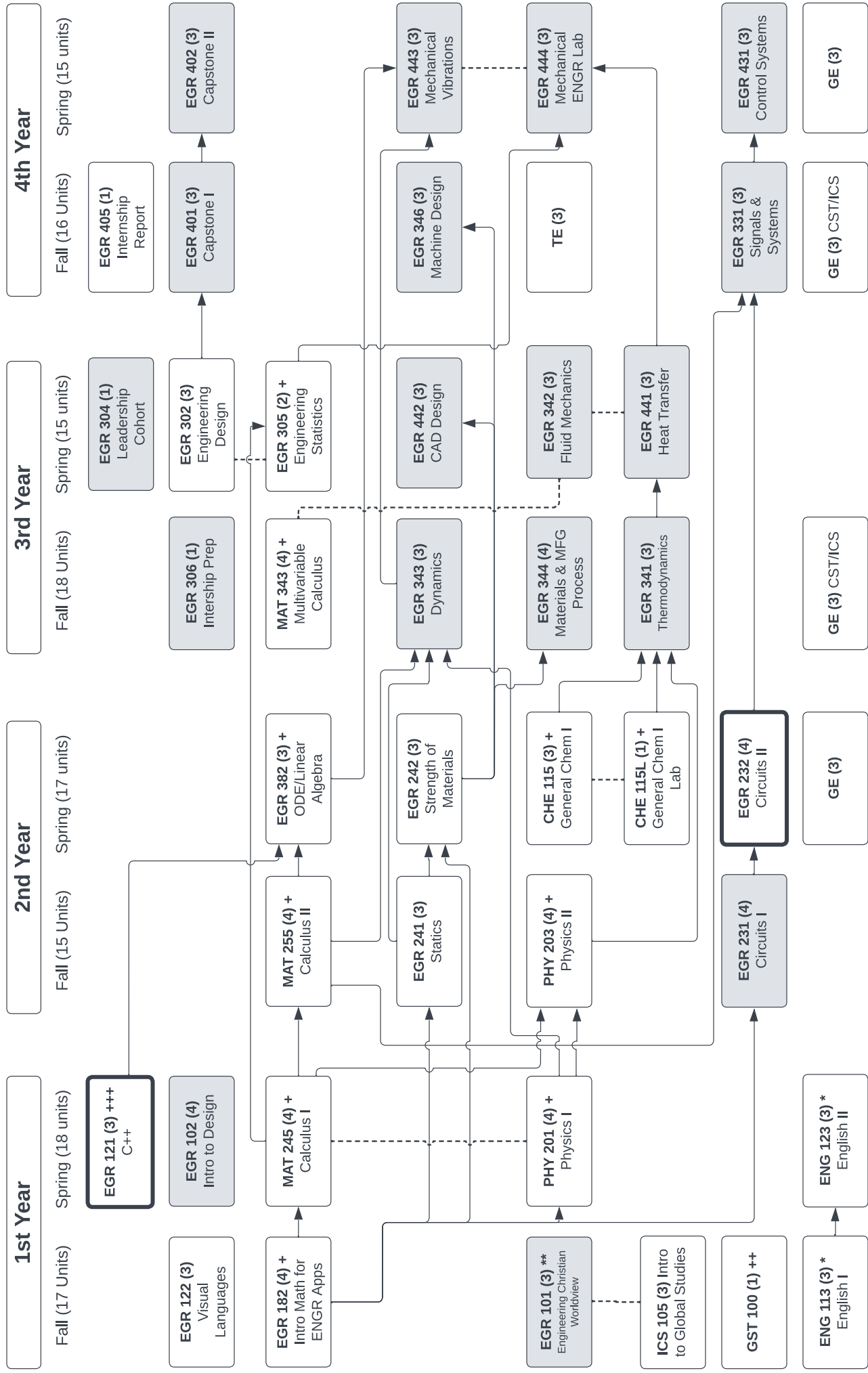
Spring (Semester 6)			15
<u>Code</u>	<u>Title</u>	<u># Units</u>	
___ EGR302	Engineering Design	3	
___ EGR304	Leadership Cohort	1	
___ EGR305	Engineering Statistics	2	
___ EGR342	Fluid Mechanics	3	
___ EGR441	Heat Transfer	3	
___ EGR442	CAD Design	3	

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	Intership Report	1	
___ TE (3)	Tech. Elective	3	
___ GE (3)	Gen. Ed CST/ICS	3	

Spring (Semester 8)			15
<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	
___ GE (3)	Gen. Ed	3	

Bachelor of Science in Mechanical Engineering (BSME) Course Flow Chart (131 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
 +++ EGR121 can be taken 2nd (Spring) or 3rd (Fall) semester and is typically also offered in the Summer.

4 GE courses include 2 Christian Studies (CST/ICS) and 2 from Civid World [complete six units from WLD161, Economics, History, Political Science, and/or Law]. Cross cultural experience may be fulfilled with specific ICS courses in Christian Studies and an additional essay - review with your Department Chair or academic advisor for qualifying ICS courses.

Internship

Course offered only during this term

Course offered Fall and Spring

Course offered Spring and Summer