

Degree: Physics B.S. 26-27				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester (FALL)				
GE 5B & 5C/LD major	PHYS 135	Physics for Scientists I		4
GE 2/LD major	MATH 130	Calculus 1		4
GE 1C	student choice	Oral Comm.		3
GE 3A	student choice	Art		3
recommended	SCI 130	Connecting to STEM Majors		2
			Total:	16
Second Semester (SPRING)				
LD major	PHYS 136	Physics for Scientists II	PHYS 135	4
LD major	MATH 131	Calculus II	MATH 130	3
GE 1A	student choice	Written Comm.		3
GE 3B	student choice	Humanities		3
free elective				1
			Total:	14
Third Semester (FALL)				
LD major	PHYS 137	Physics for Scientists III	PHYS 136	4
LD major	MATH 230	Calculus III	MATH 131	3
LD major	CHEM 110 or CS 100			3
GE 4 & Code 1	student choice	Social and Behavioral Sciences		3
free elective				2
			Total:	15
Fourth Semester (SPRING)				
LD major, GE 1B & Second Comp.	PHYS 230	Physical Reasoning	GE 1A, MATH 230, and either PHYS 137 or PHYS 126	3
LD major	MATH 215	Linear Algebra	MATH 130	3
	student choice	Biological Sci & Sust. Overlay		
GE 5B				3
GE 4 & Code 2	student choice	Social and Behavioral Sciences		3
GE 6	student choice	Ethnic Studies		3
			Total:	15
Fifth Semester (FALL)				
UD major	PHYS 330	Analytic Mechanics	MATH 230, and PHYS 137 or PHYS 126	3
UD major	PHYS 350	Quantum Mechanics I	MATH 230, and PHYS 137 or PHYS 126	3
UD major	PHYS 380	Advanced Lab - Electronics		3
LD major	MATH 285	Differential Equations	MATH 131	3
free elective				3
			Total:	15
Sixth Semester (SPRING)				
UD major	PHYS 351	Quantum Mechanics II	PHYS 350	3
UD major	PHYS elective	Select from PHYS 460, 461, 462, or 463 (only one offered each term)		3
UWR	Student choice			3
free elective				3
free elective				3
			Total:	15
Seventh Semester (FALL)				
UD major	PHYS 340	Thermodynamics and Statistical Mechanics	MATH 230, and PHYS 137 or PHYS 126	3
UD major	PHYS 450	Electromagnetism I	MATH 230, and PHYS 137 or PHYS 126	3
UD major	PHYS 481	Advanced Lab - Projects		3
GE UD 3 & Overlay	student choice			3
GE UD 5 & Overlay	student choice			3
			Total:	15
Eighth Semester (SPRING)				
UD major	PHYS 451	Electromagnetism II	PHYS 450	3
UD major	PHYS elective	Select from PHYS 460, 461, 462, or 463 (only one offered each term)		3
GE UD 4 & Overlay	student choice			3
	Free			3
	Free			3
			Total:	15
Total Units:				120

CSUEB General Breadth and Graduation Requirement Checklist
Area 1 (9 units): English Communication
<input type="checkbox"/> 1A - Lower Division English Composition
<input type="checkbox"/> 1B - Lower Division Critical Thinking and Composition
<input type="checkbox"/> 1C - Lower Division Oral Communication
Area 2 (3 units): Mathematical Concepts and Quantitative
<input type="checkbox"/> Area 2 - Mathematical Concepts and Quantitative Reasoning
Area 3 (6 units): Arts & Humanities - Minimum of two different
<input type="checkbox"/> 3A - Arts and Humanities (Arts)
<input type="checkbox"/> 3B - Arts and Humanities (Humanities)
Area 4 (6 units): Social and Behavioral Sciences - Minimum of
<input type="checkbox"/> Area 4 - Lower Division Social and Behavioral Sciences
<input type="checkbox"/> Area 4 - Lower Division Social and Behavioral Sciences
Area 5 (7 units): Physical and Biological Sciences
<input type="checkbox"/> 5A - Lower Division Physical and Biological Sciences (Physical)
<input type="checkbox"/> 5B - Lower Division Physical and Biological Sciences (Biological)
<input type="checkbox"/> 5C - Lower Division Physical and Biological Sciences (Laboratory)
Area 6 (3 units): Ethnic Studies
<input type="checkbox"/> Area 6 - Ethnic Studies
Second Composition : Second Composition (Required as part of 1B for 2025-26 or later catalog)
<input type="checkbox"/> Second Composition
University Writing Requirement (3-4 units)
<input type="checkbox"/> UWR
U.S. Code (American Institutions Requirement) - Two courses (6 units) covering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).
<input type="checkbox"/> Code 1
<input type="checkbox"/> Code 2
Upper Division GE Requirements (9 units): Should be taken after completion of 1A, 1B, 1C, and Area 2 with a C- (CR)
<input type="checkbox"/> UD- Area 3 - Upper Division Arts or Humanities
<input type="checkbox"/> UD- Area 4 - Upper Division Social and Behavioral Sciences
<input type="checkbox"/> UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning
Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major
<input type="checkbox"/> Diversity (Div)
<input type="checkbox"/> Social Justice (SJ)
<input type="checkbox"/> Sustainability (S)