

Degree: Physics, B.S.				
Requirement Area	Course	Course Title	Prerequisites	Units
<b>First Semester</b>				
E	GS 101A	Foundations of Success I		1
A1	COMM 100	Communication		3
LD Major/B1&B3	PHYS 135	Physics for Scientists and Engineers I		4
LD Major/B4	MATH 130	Calculus I		4
C1				3
			<b>Total:</b>	15
<b>Second Semester</b>				
E	GS 101B	Foundations of Success II		1
A2	ENGL 102			3
LD Major	PHYS 136	Physics for Scientists and Engineers II	MATH 130 and PHYS 135	4
B4/LD Major	MATH 131	Calculus II	MATH 130 with grade C- or better	3
C2				3
			<b>Total:</b>	14
<b>Third Semester</b>				
E				1
A3	PHIL 100	Workshop in Critical Thinking		3
LD Major	PHYS 137	Physics for Scientists and Engineers III	MATH 130 and PHYS 136	4
LD Major	MATH 230	Calculus III	MATH 131 with grade C- or better.	3
LD Major	CHEM 110	General Chemistry		3
Elective				2
			<b>Total:</b>	16
<b>Fourth Semester</b>				
LD Major/Writing II	PHYS 230	Physical Reasoning	MATH 230, and PHYS 137 or PHYS 126	3
LD Major	MATH 210	Linear Algebra with Differential Equations	MATH 130	3
B2/Sustainability Overlay	ENSC 240	Environmental Biology		3
D1/Code 1				3
Add'l C1 or C2*				3
			<b>Total:</b>	15
<b>Fifth Semester</b>				
D2				3
UD Major	PHYS 330	Analytical 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 Laboratory I: Electronics	MATH 230, and PHYS 137 or PHYS 126	3
Elective				3
			<b>Total:</b>	15
<b>Sixth Semester</b>				
D3/Code 2				3
B6				3
UD Major	PHYS	Physics Elective		3
UD Major	PHYS 351	Quantum Mechanics II	PHYS 350	3
UD Major	PHYS 381	Advanced Laboratory II: Experimental Methods	PHYS 380	3
			<b>Total:</b>	15
<b>Seventh Semester</b>				
C4/Overlay				3
UD Major	PHYS 340	Statistical Mech. & Thermo.	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 480	Advanced Laboratory III: Modeling, Design, and Analysis	PHYS 381	3
Elective				3
			<b>Total:</b>	15
<b>Eighth Semester</b>				
D4/Overlay				3
UD Major	PHYS 451	Electromagnetism II	PHYS 450	3
UD Major	PHYS 481	Advanced Laboratory IV: Projects	PHYS 480	3
UD Major	PHYS	Physics Elective		3
Elective				3
			<b>Total:</b>	15
<b>Total Units:</b>				120

General Education & University Requirements - Suggested Courses	
Area A (9 units): Communication in the English Language & Critical Thinking (Must earn passing grade of C-/CR or better)	
<input type="checkbox"/> <a href="#">A1. COMM 100 or 104, MLL 111</a>	
<input type="checkbox"/> <a href="#">A2. ENGL 101, 102, or 104</a>	
<input type="checkbox"/> <a href="#">A3. PHIL 100</a>	
Area B (9 units) : Scientific Inquiry & Quantitative Reasoning	
<input type="checkbox"/> <a href="#">B1. Physical Science</a>	
<input type="checkbox"/> <a href="#">B2. Life Science</a>	
<input type="checkbox"/> <a href="#">B3. Laboratory Activity</a>	
<input type="checkbox"/> <a href="#">B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.)</a>	
Area C (9 units): Arts & Humanities - Minimum of three different disciplines as designated by course prefix (e.g., ART, THEA, MUS)	
<input type="checkbox"/> <a href="#">C1. Arts</a>	
<input type="checkbox"/> <a href="#">C2. Humanities</a>	
<input type="checkbox"/> *Additional Lower-division Area C Course in Arts (C1) or Humanities (C2)	
Area D (9 units) : Social Sciences - Minimum of three different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC)	
<input type="checkbox"/> <a href="#">D1.</a>	
<input type="checkbox"/> <a href="#">D2.</a>	
<input type="checkbox"/> <a href="#">D3.</a>	
Area E (3 units) : Lifelong Learning and Self-Development	
<input type="checkbox"/> <a href="#">E.</a>	
Second Composition : Requires completion of GE A2 with a C-/CR or better. Must be completed before attaining junior standing.	
<input type="checkbox"/> <a href="#">Writing II.</a>	
University Writing Skills Requirement	
<input type="checkbox"/> <a href="#">UWSR. Writing Skills Test (WST) or First and/or Second Tier Courses</a>	
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"/> <a href="#">Code 1.</a>	
<input type="checkbox"/> <a href="#">Code 2.</a>	
Upper Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)	
<input type="checkbox"/> <a href="#">B6. Upper-division Science Inquiry and Quantitative Reasoning</a>	
<input type="checkbox"/> <a href="#">C4. Upper-division Arts OR Humanities</a>	
<input type="checkbox"/> <a href="#">D4. Upper-division Social Sciences</a>	
Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major	
<input type="checkbox"/> <a href="#">Diversity (Div)</a>	
<input type="checkbox"/> <a href="#">Social Justice (SJ)</a>	
<input type="checkbox"/> <a href="#">Sustainability (S)</a>	