

Degree: Physics, B.S.				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester				
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
			Total:	15
Second Semester				
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
			Total:	14
Third Semester				
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	3
LD Major	CHEM 110	General Chemistry		3
Elective				2
			Total:	16
Fourth Semester				
LD Major/Writing II	PHYS 230	Physical Reasoning	MATH 230,	3
LD Major	MATH 210	Linear Algebra with Differential Equations	MATH 130	3
B2/Sustainability	ENSC 240	Environmental Biology		3
D1/Code 1				3
Add'l C1 or C2*				3
			Total:	15
Fifth Semester				
D2				3
UD Major	PHYS 330	Analytical Mechanics	MATH 230,	3
UD Major	PHYS 350	Quantum Mechanics I	MATH 230,	3
UD Major	PHYS 380	Advanced Laboratory I: Electronics	MATH 230,	3
Elective				3
			Total:	15
Sixth Semester				
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	PHYS 380	3
			Total:	15
Seventh Semester				
C4/Overlay				3
UD Major	PHYS 340	Statistical Mech. & Thermo.	MATH 230,	3
UD Major	PHYS 450	Electromagnetism I	MATH 230,	3
UD Major	PHYS 480	Advanced Laboratory III: Modeling, Design,	PHYS 381	3
Elective				3
			Total:	15
Eighth Semester				
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
			Total:	15
Total Units:				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"/> A1. COMM 100 or 104
<input type="checkbox"/> A2. ENGL 101, 102, or 104
<input type="checkbox"/> A3. PHIL 100
Area B (9 units) : Scientific Inquiry & Quantitative Reasoning
<input type="checkbox"/> B1. Physical Science
<input type="checkbox"/> B2. Life Science
<input type="checkbox"/> B3. Laboratory Activity
<input type="checkbox"/> B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.)
Area C (9 units): Arts & Humanities - Minimum of three different disciplines as designated by course prefix (e.g., ART, THEA, MUS)
<input type="checkbox"/> C1. Arts
<input type="checkbox"/> C2. Humanities.
<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"/> D1.
<input type="checkbox"/> D2.
<input type="checkbox"/> D3.
Area E (3 units) : Lifelong Learning and Self-Development
<input type="checkbox"/> E.
Second Composition : Requires completion of GE A2 with a C-/CR or better.
<input type="checkbox"/> Writing II.
University Writing Skills Requirement
<input type="checkbox"/> UWSR. Writing Skills Test (WST) or First and/or Second Tier Courses
U.S. Code (American Institutions Requirement) - Two courses (6 units)
<input type="checkbox"/> Code 1.
<input type="checkbox"/> Code 2.
Upper Division GE Requirements (9 units): Should be taken after completion
<input type="checkbox"/> B6. Upper-division Science Inquiry and Quantitative Reasoning
<input type="checkbox"/> C4. Upper-division Arts OR Humanities
<input type="checkbox"/> D4. Upper-division Social Sciences
Overlay Requirements (9 units): Courses may be upper or lower division, and
<input type="checkbox"/> Diversity (Div)
<input type="checkbox"/> Social Justice (SJ)
<input type="checkbox"/> Sustainability (S)