Degree:	Phy	sics.	B.A.	23-24
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		Degree: Physics, B.A. 23-24		
Requirement Area	Course	Course Title	Prerequisites	Units
	1	First Semester (FALL)		
E	SCI 130	Connecting to STEM Majors		- 2
A1		Oral Communication		- 3
LD Major/B1&B3	PHYS 135	Physics for Scientists and Engineers I		4
LD Major/B4	MATH 130	Calculus I		
C1		Arts	Total:	10
		Second Semester (SPRING)	Iotal:	10
A2		Written Communication		
LD Major	PHYS 136	Physics for Scientists and Engineers II		-
LD Major	MATH 131	Calculus II		
LD IVIUJO:	100000	Carcaras II		
C2		Humanities		3
Elective				:
			Total:	14
	1	Third Semester (FALL)		
E		Lifelong Learning and Self-Development		
A3	PHIL 100	Workshop in Critical Thinking		3
_D Major	PHYS 137	Physics for Scientists and Engineers III		4
D1/Code 1		Social Science/US Code		3
B2		Social Science/US Code Life Science		3
Elective		LITE SCIENCE		1
			Total:	15
		•		
		Fourth Semester (SPRING)		
LD Major/Second Comp	PHYS 230	Physical Reasoning		3
LD Major	MATH 215	Introduction to Linear Algebra		3
LD IVIAJOI	WATTIZIS	Introduction to Linear Algebra		
Add'l C1 or C2*		Arts or Humanities		3
D2/Code 2		Social Science/US Code		
F		Ethnic Studies		-
			Total:	15
	•	•		
	,	Fifth Semester (FALL)		
			MATH 230,	
UD Major	PHYS 350	Quantum Mechanics I	and PHYS 137 or PHYS 126	3
OD Wajor	11113 330	Quantum Meenames 1	MATH 230,	
			and PHYS 137	
UD Major	PHYS 380	Advanced Lab I	or PHYS 126	3
UD Major	PHYS	Physics Elective		13
UWR				- 3
UD Free Elective				
			Total:	15
		Sixth Semester (SPRING)		
			MATH 230, and PHYS 137	
UD Major	PHYS 330	Analytical Mechanics	or PHYS 126	:
-		Advanced Laboratory II: Experimental		
UD Major	PHYS 381	Methods	PHYS 380	3
JD Free Elective				- 3
JD Free Elective		1		3
JD Free Elective		-		3
		Squanth Competer (FALL)	Total:	15
		Seventh Semester (FALL)	MATH 230,	
			and PHYS 137	
UD Major	PHYS 450	Electromagnetism I	or PHYS 126	3
UD Major	PHYS elective			3
UD Free Elective		1		3
JD-C/Overlay				3
JD-B/Overlay		-		
		Fighth Compater (CDDING)	Total:	15
ID-D/Overlay		Eighth Semester (SPRING)		3
JD-D/Overlay			MATH 230,	-
			and PHYS 137	
UD Major	PHYS 340	Statistical Mech. & Thermo.	or PHYS 126	
UD Free Elective				
UD Free Elective				3
UD Free Elective		1		3
	L		Total:	1
Total Units:				120.00

Note: No changes to, or from, the credit/no credit pattern are permitted after the Grade Type Change period. There are no exceptions to this rule. Courses in a student's major department, regardless of course prefix, may not be taken "CR/NC," unless that is the only grading pattern in the course.

Revised 3/24/23

	 General Breadth and Graduation Requirement Checklist s): Communication in the English Language & Critical Thinking (Must earn passing grade of C-/CR or better)
☐ A1. COMM	1 100 or 104, MLL 111
A2. ENGL 1	101, 102, or 104
☐ A3. PHIL 1	
	ea B (9 units) : Scientific Inquiry & Quantitative Reasoning
B1. Physical	
B2. Life Sci	
B3. Labora	
	tative Reasoning (Must earn passing grade of C-/CR or better.)
C1. Arts	
	Lower-division Area C Course in Arts (C1) or Humanities (C2) units): Social Sciences - Minimum of two different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC)
□ D1. □ D2.	
A	rea E (3 units) : Lifelong Learning and Self-Development
	Area F (3 units): Ethnic Studies
	osition : Requires completion of GE A2 with a C-/CR or better. Must be completed before attaining junior standing.
☐ Second Co	University Writing Requirement
	merican Institutions Requirement) - Two courses (6 units) covering de Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).
☐ Code 1.	
Upper Division	n GE Requirements (9 units): Should be taken after completion of A1 A2, A3, and B4 with a C- (CR)
UD-B. Upp	er-division Science Inquiry and Quantitative Reasoning
UD-C.Uppe	er-division Arts OR Humanities
	er-division Social Sciences
Overlay Requi	rements (9 units): Courses may be upper or lower division, and GE o
□ Diversity (I	major
	major Div)
☐ Social Just ☐ Sustainabi	major Div) ice (SJ) lity (S) Elective Courses
Choose a minir	major Div) lice (SJ) lity (S) Elective Courses mum of 6 units from the following:
☐ Social Just☐ Sustainabi☐ Sustainabi☐ Choose a minir	major Div) ice (SJ) lity (S) Elective Courses
□ Social Just □ Sustainabi Choose a minir CHEM 100 - Int CHEM 110 - Ge	major Div) lice (SJ) lity (S) Elective Courses num of 6 units from the following: croduction to College Chemistry Units: 3; G.E./G.R. Area: B1, B3
□ Social Just □ Sustainabi Choose a minir CHEM 100 - Int CHEM 110 - Ge	major Div) lice (SJ) lity (S) Elective Courses mum of 6 units from the following: roduction to College Chemistry Units: 3 ; G.E./G.R. Area: B1, B3 eneral Chemistry for Engineering Units: 3 ; G.E./G.R. Area: B1, B3
Social Just Sustainabi Choose a minin CHEM 100 - Inti CHEM 111 - Ge CHEM 111 - Ge CCHEM 112 - Ge CS 100 - Progra	major Div) ice (SJ) lity (S) Elective Courses mum of 6 units from the following: croduction to College Chemistry Units: 3 ; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3 eneral Chemistry II Units: 5 mming for Everyone Units: 3
Social Just Sustainabi Choose a minir CHEM 100 - Inti CHEM 111 - Ge CHEM 111 - Ge CS 100 - Progre CS 101 - Comp	major Div) ice (SJ) lity (S) Elective Courses mum of 6 units from the following: roduction to College Chemistry Units: 3 ; G.E./G.R. Area: B1, B3 eneral Chemistry for Engineering Units: 3 ; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3 eneral Chemistry II Units: 5 imming for Everyone Units: 3 uter Science I Units: 4
□ Social Just □ Sustainabi Cheose a minii CHEM 100 - Int CHEM 111 - Ge CHEM 112 - Ge CHEM 112 - Ge CS 100 - Progra CS 101 - Comp PHYS 104 - Mu	major Div) ice (SJ) lity (S) Elective Courses mum of 6 units from the following: roduction to College Chemistry Units: 3 ; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3 eneral Chemistry II Units: 5 mming for Everyone Units: 3 uter Science I Units: 4 sical Acoustics Units: 4 ; G.E./G.R. Area: B1, B3
Social Just Sustainabi Choose a minii CHEM 100 - Ini CHEM 111 - Ge CHEM 111 - Ge CHEM 112 - Ge S 100 - Progre S 101 - Comp PHYS 104 - Mu PHYS 105 - Hov	major Div) ice (SJ) lity (S) Elective Courses mum of 6 units from the following: roduction to College Chemistry Units: 3 ; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3 eneral Chemistry II Units: 5 imming for Everyone Units: 3 uter Science I Units: 4
Social Just Sustainabi Cheose a minii CHEM 100 - Ini CHEM 110 - Ge CHEM 111 - Ge CHEM 112 - Ge CS 100 - Progre CS 101 - Comp PHYS 104 - Mu PHYS 105 - Hoo PHYS 106 - Phy PHYS 107 - Scie	major Div) ice (SJ) lity (S) Elective Courses mum of 6 units from the following: roduction to College Chemistry Units: 3; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5 eneral Chemistry II Units: 6 eneral Chemistry I
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Social Just Sustainabi Choose a minit CHEM 100 - Int CHEM 110 - Ge CHEM 111 - Ge CHEM 112 - Ge CS 100 - Progra CS 101 - Comp PHYS 104 - Mu PHYS 105 - Hov PHYS 106 - Phy PHYS 107 - Scie PHYS 108 - Ast PHYS 115 - Elei	major Div) ice (SJ) lity (S) Elective Courses mum of 6 units from the following: roduction to College Chemistry Units: 3; G.E./G.R. Area: B1, B3 eneral Chemistry For Engineering Units: 3; G.E./G.R. Area: B1, B3 eneral Chemistry Il Units: 5; G.E./G.R. Area: B1, B3 eneral Chemistry II Units: 5 imming for Everyone Units: 3 uter Science I Units: 4; G.E./G.R. Area: B1, B3 w Things Work Units: 3; G.E./G.R. Area: B1, B3 w Things Work Units: 3; G.E./G.R. Area: B1, B3 eneral Chemistry II Units: 4; G.E./G.R. Area: B1, B3 w Things Work Units: 3; G.E./G.R. Area: B1, B3 w Things Work Units: 3; G.E./G.R. Area: B1, Sustainability ence of Energy Units: 3; G.E./G.R. Area: B1; Sustainability ronomy of Indigenous Cultures Units: 3; G.E./G.R. Area: B1; Diversity mentary Physics Units: 3; G.E./G.R. Area: B1, B3
□ Social Just □ Sustainabi Cheose a minit CHEM 100 - Int CHEM 111 - Ge CHEM 111 - Ge CHEM 112 - Ge CHEM 112 - Ge CHEM 113 - Ge CHEM 114 - Ge CHEM 115 - Ge CHEM 116 - Progra CS 100 - Progra CS 100 - Progra CS 101 - Comp PHYS 104 - Mu PHYS 105 - Ho PHYS 106 - Phy PHYS 107 - Scie PHYS 108 - Ast PHYS 108 - Ast PHYS 118 - Des	major Div) ice (SJ) lity (S) Elective Courses mum of 6 units from the following: roduction to College Chemistry Units: 3; G.E./G.R. Area: B1, B3 eneral Chemistry for Engineering Units: 3; G.E./G.R. Area: B1, B3 eneral Chemistry Il Units: 5; G.E./G.R. Area: B1, B3 eneral Chemistry Il Units: 5 mming for Everyone Units: 3 uter Science I Units: 4 sical Acoustics Units: 4; G.E./G.R. Area: B1, B3 w Things Work Units: 3; G.E./G.R. Area: B1 sics for Future Leaders Units: 3; G.E./G.R. Area: B1; Sustainability ronomy of Indigenous Cultures Units: 3; G.E./G.R. Area: B1; Sustainability mentary Physics Units: 3; G.E./G.R. Area: B1, B3 criptive Astronomy Units: 3; G.E./G.R. Area: B1, B3 criptive Astronomy Units: 3; G.E./G.R. Area: B1
□ Social Just □ Sustainabi □ S	major Div) ice (SJ) lity (S) Elective Courses mum of 6 units from the following: croduction to College Chemistry Units: 3; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5 eneral Chemistry II Units: 5 eneral Chemistry II Units: 5 eneral Chemistry II Units: 3 uter Science I Units: 4 sical Acoustics Units: 4; G.E./G.R. Area: B1, B3 w Things Work Units: 3; G.E./G.R. Area: B1 sics for Future Leaders Units: 3; G.E./G.R. Area: B1; Sustainability renomy of Indigenous Cultures Units: 3; G.E./G.R. Area: B1, B3 complete Astronomy Units: 3; G.E./G.R. Area: B1, B3 criptive Astronomy Units: 3; G.E./G.R. Area: B1, B3 criptive Astronomy Units: 3; G.E./G.R. Area: B1 renomy Laboratory Units: 1; G.E./G.R. Area: B1
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Social Just Sustainabi Choose a minit CHEM 100 - Int CHEM 110 - Ge CHEM 111 - Ge CHEM 112 - Ge CHEM 112 - Ge CS 100 - Progre CS 101 - Comp PHYS 104 - Mu PHYS 105 - Hov PHYS 106 - Phy PHYS 106 - Phy PHYS 107 - Scie PHYS 108 - Ast PHYS 115 - Elei ASTR 138 - Des ASTR 139 - Ast PHYS 303 - Bio ASTR 337 - Extr	major Div) ice (SJ) lity (S) Elective Courses mum of 6 units from the following: roduction to College Chemistry Units: 3; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5; G.E./G.R. Area: B1, B3 eneral Chemistry II Units: 5 mming for Everyone Units: 3 uter Science I Units: 4 sical Acoustics Units: 4; G.E./G.R. Area: B1, B3 w Things Work Units: 3; G.E./G.R. Area: B1 sics for Future Leaders Units: 3; G.E./G.R. Area: B1; Sustainability ence of Energy Units: 3; G.E./G.R. Area: B1; Sustainability ronomy of Indigenous Cultures Units: 3; G.E./G.R. Area: B1; Sustainability rentary Physics Units: 3; G.E./G.R. Area: B1, B3 company Leaders Units: 3; G.E./G.R. Area: B1, B3 conomy Laboratory Units: 3; G.E./G.R. Area: B1 conomy Laboratory Units: 1; G.E./G.R. Area: B3 physics Units: 3; G.E./G.R. Area: B1
□ Social Just □ Sustainabi □ Sustainabi □ Choose a minit CHEM 100 - Int CHEM 110 - Ge CHEM 111 - Ge CHEM 112 - Ge CS 100 - Prograc CS 101 - Comp PHYS 104 - Mu PHYS 105 - Hov PHYS 106 - Phy PHYS 107 - Scie PHYS 108 - Ast PHYS 115 - Elei ASTR 138 - Des ASTR 139 - Ast PHYS 303 - Bio ASTR 337 - Ext ASTR 338 - The	major Div) ice (SJ) lity (S) Elective Courses mum of 6 units from the following: roduction to College Chemistry Units: 3; G.E./G.R. Area: B1, B3 eneral Chemistry for Engineering Units: 3; G.E./G.R. Area: B1, B3 eneral Chemistry II Units: 5; G.E./G.R. Area: B1, B3 eneral Chemistry II Units: 5 imming for Everyone Units: 3 uter Science I Units: 4 sical Acoustics Units: 4; G.E./G.R. Area: B1, B3 w Things Work Units: 3; G.E./G.R. Area: B1, B3 w Things Work Units: 3; G.E./G.R. Area: B1 sics for Future Leaders Units: 3; G.E./G.R. Area: B1; Sustainability ence of Energy Units: 3; G.E./G.R. Area: B1; Sustainability ronomy of Indigenous Cultures Units: 3; G.E./G.R. Area: B1, B3 criptive Astronomy Units: 3; G.E./G.R. Area: B1 physics Units: 3; G.E./G.R. Area: B3 physics Units: 3; G.E./G.R. Area: B3 physics Units: 3; G.E./G.R. Area: UD-B rasolar Planets Units: 3; G.E./G.R. Area: UD-B
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□ Social Just □ Sustainabi □ Sustainabi □ Chem 100 - Init CHEM 110 - Ge CHEM 111 - Ge CHEM 112 - Ge CS 100 - Progra CS 101 - Comp PHYS 104 - Mu PHYS 105 - Hoo PHYS 106 - Phy PHYS 107 - Scie PHYS 108 - Ast PHYS 115 - Elei ASTR 138 - Des PHYS 303 - Bio ASTR 339 - Stai PHYS 305 - Sele	major Div) ice (SJ) lity (S) Elective Courses mum of 6 units from the following: roduction to College Chemistry Units: 3; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5; G.E./G.R. Area: B1, B3 eneral Chemistry I Units: 5; G.E./G.R. Area: B1, B3 eneral Chemistry II Units: 5 mming for Everyone Units: 3 uter Science I Units: 4 sical Acoustics Units: 4; G.E./G.R. Area: B1, B3 w Things Work Units: 3; G.E./G.R. Area: B1, B3 w Things Work Units: 3; G.E./G.R. Area: B1 sics for Future Leaders Units: 3; G.E./G.R. Area: B1; Sustainability ence of Energy Units: 3; G.E./G.R. Area: B1; Sustainability ronomy of Indigenous Cultures Units: 3; G.E./G.R. Area: B1; Diversity mentary Physics Units: 3; G.E./G.R. Area: B1 criptive Astronomy Units: 1; G.E./G.R. Area: B1 physics Units: 3; G.E./G.R. Area: UD-B asolar Planets Units: 3; G.E./G.R. Area: UD-B cosmos Units: 3; G.E./G.R. Area: UD-B ars and Galaxies Units: 3; G.E./G.R. Area: UD-B antum Mechanics II Units: 3 etced Topics Units: 1 ctromagnetism II Units: 3 etced Topics Units: 1 ctromagnetism II Units: 3
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^{*}Students are required to take a minimum of 40 semester units as upper division (includes 9 units upper division GE)