Requirement Area	Course	Course Title	Prerequisites	Units
Requirement Area	course	First Semester (FALL)	Frerequisites	Units
E	SCI 130	Connecting to STEM Majors		:
A1	301 150			
	DUNC 105	Oral Communication		
LD Major/B1&B3	PHYS 135 MATH 130	Physics for Scientists and Engineers I		
LD Major/B4	MATH 130	Calculus I		4
C1		Art		3
			Total:	16
	1	Second Semester (SPRING)		
A2		Written Communication		3
			MATH 130 and	
LD Major	PHYS 136	Physics for Scientists and Engineers II	PHYS 135	4
			MATH 130	
			with grade C-	
B4/LD Major	MATH 131	Calculus II	or better	
C2		Humanities		
			Track	
		Third Semester (FALL)	Total:	13
E	1		1	
	DUUL 100	Lifelong Learning and Self-Development		
A3	PHIL 100	Workshop in Critical Thinking	MATH 130 and	3
LD Major	PHYS 137	Physics for Scientists and Engineers III	PHYS 130 and	4
		r hysics for sciencists and Engineers in	MATH 131	
	1		with grade C-	
LD Major	MATH 230	Calculus III	or better.	3
LD Major	CHEM 110	General Chemistry		
	STIENT 110	General enemistry		
Elective	1			:
	1		Total:	10
		Fourth Semester (SPRING)	TOLAI:	10
	1	Fourth Semester (SPRING)	AATU 220	
LD Major/Second			MATH 230, and PHYS 137	
Composition	PHYS 230	Physical Reasoning	or PHYS 126	3
composition	11115 250		01 FITTS 120	
LD Major	MATH 285	Introduction to Differential Equations		3
B2/Sustainability				
Overlay	ENSC 240	Environmental Biology		3
D1/Code 1		Social Sciences/US Code		3
Add'l C1 or C2*				3
Add I CI OF CZ			Total:	15
		Fifth Semester (FALL)	Total:	15
		Fifth Semester (FALL)	Total:	
F		Fifth Semester (FALL) Ethnic Studies		
			MATH 230,	
F	PHYS 330	Ethnic Studies	MATH 230, and PHYS 137	3
	PHYS 330		MATH 230, and PHYS 137 or PHYS 126	3
F	PHYS 330	Ethnic Studies	MATH 230, and PHYS 137	3
F	PHYS 330	Ethnic Studies	MATH 230, and PHYS 137 or PHYS 126 MATH 230,	
F UD Major		Ethnic Studies Analytical Mechanics	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137	
F UD Major UD Major	PHYS 350	Ethnic Studies Analytical Mechanics Quantum Mechanics I	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137	3
F UD Major UD Major		Ethnic Studies Analytical Mechanics	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 230,	3
F UD Major UD Major UD Major	PHYS 350	Ethnic Studies Analytical Mechanics Quantum Mechanics I	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137	3
F UD Major UD Major UD Major	PHYS 350 PHYS 380	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126	3
F UD Major UD Major UD Major	PHYS 350 PHYS 380	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 MATH 230, and PHYS 127 or PHYS 127 or PHYS 127 MATH 130	3
F UD Major	PHYS 350 PHYS 380	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 MATH 230, and PHYS 127 or PHYS 127 or PHYS 127 MATH 130	15 3 3 3 3 3 3 15 3 3 3 3 3 3 3 3 3 3 3
F UD Major UD Major UD Major LD Major D2/Code 2	PHYS 350 PHYS 380	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING)	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 MATH 230, and PHYS 127 or PHYS 127 or PHYS 127 MATH 130	3 3 3 3 3 3 15
F UD Major UD Major LD Major LD Major D2/Code 2 UWR	PHYS 350 PHYS 380 MATH 215	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 MATH 230, and PHYS 127 or PHYS 127 or PHYS 127 MATH 130	3 3 3 15 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
F UD Major UD Major LD Major D2/Code 2 UWR UD Major	PHYS 350 PHYS 380 MATH 215 PHYS	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total:	3 3 3 15 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
F UD Major UD Major LD Major D2/Code 2 UWR UD Major	PHYS 350 PHYS 380 MATH 215	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 MATH 230, and PHYS 127 or PHYS 127 or PHYS 127 MATH 130	3 3 3 15 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
F UD Major UD Major LD Major D2/Code 2 UWR UD Major UD Major	PHYS 350 PHYS 380 MATH 215 PHYS PHYS 351	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 or PHYS 127 or PHYS 127 mATH 230, and PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137 Total:	
F UD Major UD Major UD Major LD Major	PHYS 350 PHYS 380 MATH 215 PHYS	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total:	3 3 3 15 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
F UD Major UD Major LD Major D2/Code 2 UWR UD Major UD Major	PHYS 350 PHYS 380 MATH 215 PHYS PHYS 351	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 or PHYS 127 or PHYS 127 mATH 230, and PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137 Total:	
F UD Major UD Major LD Major D2/Code 2 UWR UD Major UD Major	PHYS 350 PHYS 380 MATH 215 PHYS PHYS 351	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 or PHYS 127 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350	
F UD Major UD Major LD Major D2/Code 2 UWR UD Major UD Major UD Major UD Major	PHYS 350 PHYS 380 MATH 215 PHYS PHYS 351	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 or PHYS 127 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350	
F UD Major UD Major LD Major D2/Code 2 UWR UD Major UD Major	PHYS 350 PHYS 380 MATH 215 PHYS PHYS 351	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 or PHYS 127 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350	
F UD Major UD Major LD Major D2/Code 2 UWR UD Major UD Major UD Major UD Major	PHYS 350 PHYS 380 MATH 215 PHYS PHYS 351	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 127 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350 PHYS 380 Total:	
F UD Major UD Major UD Major D2/Code 2 UWR UD Major UD Major UD Major UD Major UD Major	PHYS 350 PHYS 380 MATH 215 PHYS PHYS 351	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 127 mATH 230, and PHYS 137 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 380 Total: MATH 230, and PHYS 137 or PHYS 126	
F UD Major UD Major UD Major LD Major D2/Code 2 UWR UD Major UD Major UD Major UD Major UD Major	PHYS 350 PHYS 380 MATH 215 PHYS PHYS 351 PHYS 381	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Seventh Semester (FALL)	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 or PHYS 126 MATH 230, mATH 230, PHYS 350 PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, MATH 230,	
F UD Major UD Major UD Major D2/Code 2 UWR UD Major	PHYS 350 PHYS 380 MATH 215 PHYS PHYS 351 PHYS 381 PHYS 381 PHYS 381	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Seventh Semester (FALL) Statistical Mech. & Thermo.	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 or PHYS 126 MATH 230, and PHYS 127 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, and PHYS 137 or PHYS 137 or PHYS 137	::::::::::::::::::::::::::::::::::::::
F UD Major UD Major UD Major D2/Code 2 UWR UD Major UD Major UD Major UD Major UD Major	PHYS 350 PHYS 380 MATH 215 PHYS PHYS 351 PHYS 381	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Seventh Semester (FALL) Statistical Mech. & Thermo. Electromagnetism I	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 or PHYS 126 MATH 230, mATH 230, PHYS 350 PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, MATH 230,	
F UD Major UD Major UD Major UD Major UD Major UD Major UU Major UD Major	PHYS 350 PHYS 380 MATH 215 PHYS 351 PHYS 351 PHYS 381 PHYS 381 PHYS 340 PHYS 450	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Seventh Semester (FALL) Electromagnetism I Advanced Laboratory II: Modeling, Design,	MATH 230, and PHYS 127 or PHYS 128 MATH 230, and PHYS 137 or PHYS 127 or PHYS 127 or PHYS 127 or PHYS 126 Total: PHYS 350 PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, and PHYS 127 or PHYS 126	
F UD Major	PHYS 350 PHYS 380 MATH 215 PHYS PHYS 351 PHYS 381 PHYS 381 PHYS 381	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Seventh Semester (FALL) Statistical Mech. & Thermo. Electromagnetism I	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 or PHYS 126 MATH 230, and PHYS 127 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, and PHYS 137 or PHYS 137 or PHYS 137	
F UD Major UD Major UD Major UD Major UD Major UD Major UU Major UD Major	PHYS 350 PHYS 380 MATH 215 PHYS 351 PHYS 351 PHYS 381 PHYS 381 PHYS 340 PHYS 450	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Seventh Semester (FALL) Electromagnetism I Advanced Laboratory II: Modeling, Design,	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, and PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137	
F UD Major	PHYS 350 PHYS 380 MATH 215 PHYS 351 PHYS 351 PHYS 381 PHYS 381 PHYS 340 PHYS 450	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Seventh Semester (FALL) Statistical Mech. & Thermo. Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis	MATH 230, and PHYS 127 or PHYS 128 MATH 230, and PHYS 137 or PHYS 127 or PHYS 127 or PHYS 127 or PHYS 126 Total: PHYS 350 PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, and PHYS 127 or PHYS 126	
F UD Major	PHYS 350 PHYS 380 MATH 215 PHYS 351 PHYS 351 PHYS 381 PHYS 381 PHYS 340 PHYS 450	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Seventh Semester (FALL) Electromagnetism I Advanced Laboratory II: Modeling, Design,	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, and PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137	
F UD Major UD Major UD Major UD Major UD Major UVR UVR UD Major	PHYS 350 PHYS 380 MATH 215 PHYS 351 PHYS 351 PHYS 381 PHYS 381 PHYS 340 PHYS 450	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Seventh Semester (FALL) Statistical Mech. & Thermo. Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, and PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137	
F UD Major UD Major UD Major UD Major UD Major UD Major UUWR UD Major	PHYS 350 PHYS 380 MATH 215 PHYS 351 PHYS 351 PHYS 381 PHYS 381 PHYS 340 PHYS 450	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Seventh Semester (FALL) Statistical Mech. & Thermo. Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, and PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137 or PHYS 137	
F UD Major UD-C/Overlay UD Major	PHYS 350 PHYS 380 MATH 215 PHYS 351 PHYS 351 PHYS 381 PHYS 381 PHYS 480 PHYS 480 PHYS 480	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Seventh Semester (FALL)  Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis Electromagnetism I Electromagnetism I Electromagnetism II	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 127 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, and PHYS 137 or PHYS	
F UD Major	PHYS 350 PHYS 380 MATH 215 PHYS 351 PHYS 351 PHYS 351 PHYS 381 PHYS 340 PHYS 440 PHYS 450 PHYS 450 PHYS 451 PHYS 481	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Statistical Mech. & Thermo. Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis Electromagnetism II Advanced Laboratory IV: Projects	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 127 or PHYS 126 MATH 230, and PHYS 137 or PHYS 127 <b>Total:</b> PHYS 350 PHYS 350 PHYS 350 PHYS 380 <b>Total:</b> MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 126 PHYS 1381 <b>Total:</b>	
F UD Major UD Major UD Major UD Major UD Major UD Major UVR UD Major	PHYS 350 PHYS 380 MATH 215 PHYS 351 PHYS 351 PHYS 381 PHYS 381 PHYS 480 PHYS 480 PHYS 480	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Seventh Semester (FALL)  Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis Electromagnetism I Electromagnetism I Electromagnetism II	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 127 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, and PHYS 137 or PHYS	
F UD Major	PHYS 350 PHYS 380 MATH 215 PHYS 351 PHYS 351 PHYS 351 PHYS 381 PHYS 340 PHYS 440 PHYS 450 PHYS 450 PHYS 451 PHYS 481	Ethnic Studies Analytical Mechanics Quantum Mechanics I Advanced Laboratory I: Electronics Introduction to Linear Algebra Sixth Semester (SPRING) Social Sciences/US Code Physics Elective Quantum Mechanics II Advanced Laboratory II: Experimental Methods Statistical Mech. & Thermo. Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis Electromagnetism I Advanced Laboratory III: Modeling, Design, and Analysis Electromagnetism II Advanced Laboratory IV: Projects	MATH 230, and PHYS 137 or PHYS 126 MATH 230, and PHYS 137 or PHYS 127 MATH 230, and PHYS 137 or PHYS 126 MATH 130 Total: PHYS 350 PHYS 350 PHYS 380 Total: MATH 230, and PHYS 137 or PHYS	

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.

## Area A (9 units): Communication in the English Language & Critical Thinking (Must earn passing grade of C-/CR or better) A1. COMM 100 or 104, MLL 111 A2. ENGL 101, 102, or 104 🗆 A3. PHIL 100 Area B (9 units) : Scientific Inquiry & Quantitative Reasoning B1. Physical Science B2. Life Science B3. Laboratory Activity □ B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.) Area C (9 units): Arts & Humanities - Minimum of two different disciplines as designated by course prefix (e.g., ART, THEA, MUS) 🗆 C1. Arts C2. Humanities \*Additional Lower-division Area C Course in Arts (C1) or Humanities (C2) Area D (6 units) : Social Sciences - Minimum of two different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC) 🗆 D1. D2 Area E (3 units) : Lifelong Learning and Self-Development □ E. Area F (3 units): Ethnic Studies ΠE Second Composition : Requires completion of GE A2 with a C-/CR or better. Must be completed before attaining junior standing. Second Composition University Writing Requirement □ 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). Code 1. Code 2. Upper Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) UD-B. Upper-division Science Inquiry and Quantitative Reasoning □ UD-C.Upper-division Arts OR Humanities □ UD-D. Upper-division Social Sciences Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major Diversity (Div) □ Social Justice (SJ) Sustainability (S) Elective Courses Choose a minimum of 6 units from the following: PHYS 460 - Astrophysics Units: 3 PHYS 461 - Atomic Physics Units: 3

CSUEB General Breadth and Graduation Requirement Checklist

\*Students are required to take a minimum of 40 semester units as upper division (includes 9 units upper division GE)

PHYS 462 - Solid State Physics Units: 3 PHYS 463 - Particle Physics Units: 3