NAME:					

B.S. Degree: Applied Physics Major (for students entering in Fall 2025/Spring 2026)

In the "WHAT" column, enter the specific course number when applicable--e.g. HIST 121. In the "WHEN" column, enter the term and year in which the requirement is satisfied--e.g., sp '20.

		Liberal Arts Core			Applied Physics Major
WHAT	WHEN		WHAT	WHEN	
		ENGL 101* w/ C (2.0) [3 hrs] ENGL 110 w/ C (2.0)* [3 hrs] COMM 211 w/ C (2.0) [3 hrs] Dept senior seminar/writing course Met by: PHYS 497 [1 hr] AND PHYS 498 [1 hr] FYEX 101 [3 hrs] FYEX 102 [1 hr] FYEX 103/104/105/106/107 [1 hr] FYEX 103/104/105/106/107 [1 hr] FYEX 401 [1 hr] Foundational Scientific Inquiry [3-4 hrs] Foundational Quantitative Analysis [3-4 hrs] Foundational Humanities & Liberal Arts [3 hrs]			PHYS 151L [1 hr] PHYS 152L [1 hr] PHYS 161 [3 hrs] PHYS 162 [3 hrs] PHYS 210 [3 hrs] PHYS 211L [1 hr] PHYS 220 [3 hrs] PHYS 221L [1 hr] PHYS 305L [1 hr] PHYS 309 [3 hrs] PHYS 310 [3 hrs] PHYS 311 [3 hrs] PHYS 340 [3 hrs] PHYS 340 [3 hrs] PHYS 342 [3 hrs] PHYS 345L [1 hr] PHYS 360 [3 hrs]
		r odridational Hamarinico de Liberal Arto (o 1119)			PHYS 497 [1 hr] PHYS 498 [1 hr]
No more than two lens courses may come from same departmental prefix and one lens must be taken at 300 level or above.		Take two	of the f	ollowing PHYS options w/lab PHYS 250 [3 hrs]+	
		Ethical/Spiritual Explor Lens (ETSP) [3 hrs] Aesthetic Expression Lens (AEXP) [3 hrs] Per & Soc Well Being Lens (PSWB) [3 hrs] Cultural Perspectives Lens (CEXP) [3 hrs] Experimental Inquiry Lens (EXIN) [3 hrs] 40 - 42 Total semester hours 120 semester hours required for graduation			PHYS 250 [3 hrs]+ PHYS 260 [3 hrs]+ PHYS 261L [1 hr] PHYS 320 [3 hrs]+ PHYS 321L [1 hr] PHYS 331L [1 hr]
*Enter NA (not applicable) if waived upon admission				CHEM 161 [3 hrs]	
toward g accomm For stud	graduatio lodate an ents clas	s majors may count up to 57 hours in Physics n. Three hours over the limit may count to internship in the discipline. sified as transfers, FYEX course requirements non total transferrable credit hours.			CHEM 163L [1 hr] OR CHEM 131/133L [4 hrs] + CHEM 132/134L [4 hrs] + CSCI 230 [3 hrs] MATH 161 [4 hrs] MATH 162 [4 hrs] MATH 163 [1 hr] MATH 223 [4 hrs] MATH 230 [4 hrs] MATH 311 [3 hrs]
					73-77 semester hours

> Only six hours of any minor may overlap with the required credit hours of a student's chosen major. The overlap constraint is not applicable to courses that majors or minors MUST take in other departments.

APPLIED PHYSICS MAJOR (PHYSA.BS)

Required Cours	202	Hrs.	Prereg.	Rec.Yr.
PHYS 151L	General Physics I Lab	1	Coreq: PHYS 161	Fr
PHYS 151L	General Physics II Lab	1	Coreq PHYS 162	Fr
PHYS 161	General Physics I w/Calculus	3	Pre or coreq MATH 161	Fr
PHYS 162	General Physics I w/Calculus	3	Pre or coreq MATH 161	Fr
PHYS 210	Light & Atomic Physics	3	MATH 161, PHYS 152 or 162;	Soph
FH13210	Light & Atomic Physics	3	Coreq PHYS 211L	Зорп
PHYS 211L	Light & Atomic Dhysica Lab	1		Conh
	Light & Atomic Physics Lab	1	Coreq PHYS 210	Soph
PHYS 220	Nuclear Physics	3	PHYS 210; Coreq PHYS 221L	Soph
DLIVO 2041	Nuclear Dhusias Lab	4		Conh
PHYS 221L	Nuclear Physics Lab	1	Coreq PHYS 220	Soph
PHYS 305L	Electro-Optics Lab	1	PHYS 210	Jr
PHYS 309	Engineering Mechanics	3	MATH 161, PHYS 152 or 162	Jr
PHYS 310	Analytical Mechanics	3	MATH 162, PHYS 151 or 161,	Jr
DI IVO 044	Markantanan	•	PHYS 152 or 162	l _m
PHYS 311	Mechanics of Materials	3	MATH 162, PHYS 151 or 161,	Jr
DI 11 (O O 10		•	PHYS 152 or 162	La
PHYS 340	Engineering Thermodynamics	3	MATH 161, PHYS 151 or 161	Jr
PHYS 342	Quantum Mechanics	3	PHYS 151 or 161, PHYS 152	Jr
			or 162, MATH 162	
PHYS 345L	Engineering Measure Lab	1	Pre PHYS 162, 340	Jr
PHYS 360	Electromagnetic Theory	3	PHYS 151 or 161, 152 or 162;	Jr
			Pre or coreq MATH 230	
^PHYS 497	Research Seminar I	1	Physics Major	Sr
^PHYS 498	Research Seminar II	1	PHYS 497	Sr
	following PHYS courses w/lab		DUNG 450 400 MATU 404	0 !-
PHYS 250	Electronics	3	PHYS 152 or 162, MATH 161	Soph
			Coreq PHYS 251L	0 1
PHYS 251L	Electronics Lab	1	Coreq PHYS 250	Soph
PHYS 260	Digital Electronics	3	PHYS 152 or 162;	Soph
			Corereq PHYS 261L	
PHYS 261L	Digital Electronics Lab	1	Corereq PHYS 260	Soph
PHYS 320	Materials Science	3	PHYS 152 or 162, MATH 161;	Jr
			Coreq PHYS 321L	
PHYS 321L	Materials Science Lab	1	Coreq PHYS 320	Jr
PHYS 330	Solid State Physics	3	PHYS 152 or 162, MATH 162;	Jr
			Coreq PHYS 331L	
PHYS 331L	Solid State Physics Lab	1	Coreq PHYS 330	Jr
			110.01	F
CHEM 161	Acc Gen Chem for Science Maj	3	HS Chemistry and proficiency	Fr
			or CHEM 105, 107L;	
			Coreq CHEM 163L	_
CHEM 163L	Acc Gen Chem for Sci Maj Lab	1	Coreq CHEM 161	Fr
	<u>OR</u>			F.
CHEM 131	Gen Chemistry for Sci Majors I	3	*Coreq CHEM 133L	Fr
*Prereq	guisite: Must have passed at least one year o	f high school chemis	try or one semester of college chemistry equi	valent to CHEM
			score of 20, MATH SAT score of 500, gra	de of C or better in
	the classes: MATH 103, 110, 112, 115, 1.		0 0115M 404	F.,
CHEM 133L	Gen Chemistry for Sci Maj I Lab	1	Coreq CHEM 131	Fr
	<u>AND</u>		0 1 1 0 1 5 1 10 1 10 0 1	_
CHEM 132	Gen Chemistry for Sci Majors II	3	C- or better in CHEM-131/133L;	Fr
			Coreq CHEM 134L	
CHEM 134L	Gen Chemistry for Sci Maj II Lab	1	Coreq CHEM 132	Fr
CSCI 230	Scientific Programming	3	PHYS 152 or 162	Soph
MATH 161	Calculus I	4	C or better in MATH 130 or equiv.	Fr
			or placement	_
MATH 162	Calculus II	4	C (2.0) or better in MATH 161;	Fr
MATH 163	Technology for Calculus	1	Coreq MATH 162	Fr
MATH 223	Calculus III	4	C (2.0) or better in MATH 162;	Soph
			Pre or coreq MATH 163	
MATH 230	Differential Equations	4	MATH 162;Pre or coreq	Soph
			MATH 163	
MATH 311	Applied Linear Algebra	3	MATH 223	Jr

⁷³⁻⁷⁷ total hours

[^]Satisfies advanced writing requirement