B.S. Degree: 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			Physics Major
WHAT	WHEN		WHAT	WHEN	
		ENGL 101* w/ C (2.0) [3 hrs]			PHYS 151L [1 hr]
		ENGL 110 w/ C (2.0)* [3 hrs]			PHYS 152L [1 hr]
		COMM 211 w/ C (2.0) [3 hrs]			PHYS 161 [3 hrs]
		Dept senior seminar/writing course			PHYS 162 [3 hrs]
		Met by: PHYS 497 [1 hr]			PHYS 210 [3 hrs]
		AND PHYS 498 [1 hr]			PHYS 211L [1 hr]
					PHYS 220 [3 hrs]
		FYEX 101 [3 hrs]			PHYS 221L [1 hr]
		FYEX 102 [1 hr]			PHYS 305L [1 hr]
		FYEX 103/104/105/106/107 [1 hr]			PHYS 310 [3 hrs]
		FYEX 103/104/105/106/107 [1 hr]			PHYS 340 [3 hrs]
		FYEX 401 [1 hr]			PHYS 342 [3 hrs]
					PHYS 360 [3 hrs]
		Foundational Scientific Inquiry [3-4 hrs]			PHYS 497 [1 hr]
		Foundational Quantitative Analysis [3-4 hrs]			PHYS 498 [1 hr]
		Foundational Humanities & Liberal Arts [3 hrs]			file file to DINO antique
				Take two	o of the following PHYS options:
					PHYS 250 [3 hrs]+PHYS 251L [1 hr]
No more than two lens courses may come from same departmental				PHYS 260 [3 hrs]+PHYS 261L [1 hr]	
prefix and	d one lens	must be taken at 300 level or above.			PHYS 320 [3 hrs]+PHYS 321L [1 hr]
		Ethical/Spiritual Explor Lens (ETSP) [3 hrs]			PHYS 330 [3 hrs]+PHYS 331L [1 hr]
		Aesthetic Expression Lens (AEXP) [3 hrs]			
		Per & Soc Well Being Lens (PSWB) [3 hrs]			CHEM 161 [2 bro]
		Cultural Perspectives Lens (CEXP) [3 hrs]			CHEM 161 [3 hrs] CHEM 163L [1 hr]
		Experimental Inquiry Lens (EXIN) [3 hrs]			OR
		Experimental inquiry Lens (EXIIV) [5 1115]			CHEM 131/133L [4 hrs]
		40 - 42 Total semester hours			CHEM 132/134L [4 hrs]
		40 - 42 Total Semester Hours			CHEW 132/134L [4 1115]
		120 semester hours required for graduation			CSCI 230 [3 hrs]
					MATH 161 [4 hrs]
*Enter NA (not applicable) if waived upon admission					MATH 162 [4 hrs]
"Enter NA (not applicable) if waived upon aumission					MATH 163 [1 hr]
For stud	For students classified as transfers, FYEX course requirements				MATH 223 [4 hrs]
are depe	endent up	oon total transferrable credit hours.			MATH 230 [4 hrs]
					MATH 311 [3 hrs]
					66-70 semester hours

>Except in specifically approved majors, a maximum of 52 hours in an academic discipline may count toward graduation. Three hours over the limit may count to accommodate an internship in the discipline.

> 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 others departments.

PHYSICS MAJOR (PHYS.BS)

Required Cour	ses	Hrs.	Prereq.	Rec.Yr.
PHYS 151L	Gen Physics I Lab	1	Coreq PHYS 151 or 161	Fr
PHYS 152L	Gen Physics II Lab	1	Coreq PHYS 152 or 162	Fr
PHYS 161	General Physics I w/Calculus	3	Pre or coreq MATH 161	Fr
PHYS 162	General Physics II w/Calculus	3		Fr
			Pre or coreq MATH 161	
PHYS 210	Light & Atomic Physics	3	MATH 161,PHYS 152 or 162;	Soph
			Coreq PHYS 211L	1119
PHYS 211L	Light & Atomic Phys Lab	1	Coreq PHYS 210	Soph
PHYS 220	Nuclear Physics	3	PHYS 210; Coreq PHYS 221L	Soph
PHYS 221L	Nuclear Physics Lab	1	Coreq PHYS 220	Soph
PHYS 305L	Electro-Optics Lab	1	PHYS 210	Jr
PHYS 310	Analytical Mechanics	3	MATH 162, PHYS 151 or 161,	Jr
			152 or 162	
PHYS 340	Engineering Thermodynamics	3	MATH 161, PHYS 151 or 161	Jr
PHYS 342	Quantum Mechanics	3	PHYS 151 or 161, 152 or 162,	Jr
			MATH 162	
PHYS 360	Electromagnetic Theory	3	PHYS 161, 162; Pre or coreq	Jr
11110 000	Electromagnette meery	•	MATH 230	01
^PHYS 497	Research Seminar I	1	Physics Major	Sr
		1		Sr
^PHYS 498	Research Seminar II		PHYS 497	SI
T 1	6 II - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
	e following PHYS options plus labs	•	DUNG 450 400 MATH 404	0 1
PHYS 250	Analog Electronics +	3	PHYS 152 or 162, MATH 161	Soph
			Coreq PHYS 251L	
PHYS 251L	Analog Electronics Lab	1	Coreq PHYS 250	Soph
PHYS 260	Digital Electronics +	3	PHYS 152 or 162; Coreq	Soph
			PHYS 261L	
PHYS 261L	Digital Electronics Lab	1	Coreq 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
11110 000	Cond Ctate 1 Trysics .	O	Coreq PHYS 331L	0.
PHYS 331L	Solid State Physics Lab	1	Coreq PHYS 330	Jr
FIII S SSIL	Solid State Physics Lab		0010411110 000	OI .
CHEM 161	Accel Gen Chem for Sci Majors	3	HS Chemistry and proficiency	Fr
CHEW 101	Accel Gen Chem for Schwajors	3		
			or CHEM 105, 107L;	
			Coreq CHEM 163L	F.,
CHEM 163L	Accel Gen Chem for Sci Maj Lab	1	Coreq CHEM 161	Fr
	<u>OR</u>			_
CHEM 131	Gen Chemistry Sci Majors I	3	Coreq CHEM 133L	Fr
*Prere	quisite: Must have passed at least	one year of high	h school chemistry or one semester	of college
	stry equivalent to CHEM 105/107L or			score of 20,
MATF	H SAT score of 500, grade of C or better	r in one of the class		
CHEM 133L	Gen Chemistry Sci Maj I Lab	1	Coreq CHEM 131	Fr
	AND			
CHEM 132	Gen Chemistry Sci Majors II	3	C- or better in CHEM 131, 133L;	Fr
			Coreq CHEM 134L	
CHEM 134L	Gen Chemistry Sci Maj II Lab	1	Coreg CHEM 132	Fr
CSCI 230	Scientific Programming	3	PHYS 152 or 162; MATH 162	Soph
MATH 161	Calculus I	4	C or better in MATH 130 or	Fr
MATTIOI	Calculus I	7	equiv. or placement	•••
MATH 460	Coloulus II	1	C (2.0) or better in MATH 161;	Fr
MATH 162	Calculus II	4		Fr
MATH 163	Technology for Calculus	1	Coreq MATH 162	
MATH 223	Calculus III	4	C (2.0) or better in MATH 162;	Soph
	* <u>111</u> 09(34_13)		Pre or coreq MATH 163	0 1
MATH 230	Differential Equations	4	MATH 162; Pre or coreq	Soph
			MATH 163	
MATH 311	Applied Linear Algebra	3	Pre or coreq: MATH 223	Jr

⁶⁶⁻⁷⁰ total hours

[^]Satisfies advanced writing requirement