B.A. 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] ENGL 110 w/ C (2.0) [3 hrs] COMM 211 w/ C (2.0) [3 hrs] Dept senior seminar/writing course			PHYS 151L [1 hr] PHYS 152L [1 hr] PHYS 161 [3 hrs] PHYS 162 [3 hrs]
		Met by: PHYS 497 [1 hr] AND PHYS 498 [1 hr]			PHYS 210 [3 hrs] PHYS 211L [1 hr] PHYS 220 [3 hrs]
		FYEX 101 [3 hrs] FYEX 102 [1 hr] FYEX 103/104/105/106/107 [1 hr]			PHYS 221L [1 hr] PHYS 305L [1 hr] PHYS 310 [3 hrs]
		FYEX 103/104/105/106/107 [1 hr] FYEX 401 [1 hr]			PHYS 360 [3 hrs] PHYS 497 [1 hr] PHYS 498 [1 hr]
		Foundational Scientific Inquiry [3-4 hrs]			5.0.5.0
		Foundational Quantitative Analysis [3-4 hrs] Foundational Humanities & Liberal Arts [3 hrs]		Take two	o of the following PHYS options PHYS 250 [3 hrs]+251L [1hr] PHYS 260 [3 hrs]+261L [1 hr] PHYS 320 [3 hrs]+321L [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.				PHYS 330 [3 hrs]+331L [1 hr] PHYS 340 [3 hrs] PHYS 342 [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]			MATH 161 [4 hrs] MATH 162 [4 hrs] MATH 163 [1 hr] MATH 223 [4 hrs] MATH 230 [4 hrs]
		40 - 42 Total semester hours			
		120 semester hours required for graduation			48-50 semester hours

For students classified as transfers, FYEX course requirements are dependent upon total transferrable credit 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.

>PHYS 151 and 152 may be substituted for PHYS 161 and 162.

^{*}Enter NA (not applicable) if waived upon admission

PHYSICS MAJOR (PHYS.BA)

Required Cou	ırses	<u>Hrs.</u>	Prereq.	Rec.Yr.				
MATH 161	Calculus I	4	C or better in MATH 130 or equiv or placement	Fr				
MATH 162	Calculus II	4	C (2.0) or better in MATH 161 or equiv; Coreq MATH 163	Fr				
MATH 163	Technology for Calculus	1	Coreg MATH 162	Fr				
MATH 223	Calculus III	4	C (2.0) or better in MATH 162	Soph				
			or equiv; Pre or coreq MATH 163					
MATH 230	Differential Equations	4	MATH 162; Pre or coreq MATH 163	Soph				
PHYS 151L	Gen Physics I Lab	1	Coreq PHYS-161	Fr				
PHYS 152L	Gen 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 II w/Calculus	3	Pre or coreq MATH 161	Fr				
PHYS 210	Light & Atomic Physics	3	MATH 161, PHYS 152 or 162; Coreq PHYS 211L	Soph				
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	Coreg PHYS 220	Soph				
PHYS 305L	Electro-Optics Lab	1	PHYS 210	Jr				
PHYS 310	Analytical Mechanics	3	PHYS 151 or 161, PHYS 152 or	Jr				
PHYS 360	Electromagnetic Theory	3	162; MATH 162 PHYS 151 or 161, 152 or 162;	JI				
	•		Pre or coreq MATH 230	Jr				
^PHYS 497	Research Seminar I	1	Physics Major	Sr				
^PHYS 498	Research Seminar II	1	PHYS 497	Sr				
Take two of the following (including lab)								
PHYS 250	Electronics +	3	PHYS 152 or 162,	Soph				
			MATH 161; Coreq PHYS 251L					
PHYS 251L	Electronics Lab	1	Coreq PHYS 250	Soph				
PHYS 260	Digital Electronics +	3	PHYS 152 or 162; Coreq PHYS 261L	Soph				
PHYS 261L	Digital Electronics Lab	1	Coreq: PHYS-260					
PHYS 330	Solid State Physics +	3	PHYS 152 or 162, MATH 162; Coreg PHYS 331L	Jr				
PHYS 331L	Solid State Physics Lab	1	Coreq PHYS 330	Jr				
PHYS 320	Materials Science +	3	PHYS 152 or 162, MATH 161	Jr				
PHYS-321L	Materials Science Lab	1	Coreq PHYS-320					
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					

48-50 total hours

PHYS 151 & PHYS 152 may be substituted for PHYS 161 & 162. Students may not receive credit for PHYS 151 and PHYS 161 or PHYS 152 and PHYS 162.

[^]Satisfies advanced writing requirement