

## PHYSICS MAJOR (PHYS.BA)

<u>Required Courses</u>		<u>Hrs.</u>	<u>Prereq.</u>	<u>Rec.Yr.</u>
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	Coreq MATH 162	Fr
MATH 223	Calculus III	4	C (2.0) or better in MATH 162 or equiv; Pre or coreq MATH 163	Soph
MATH 230	Differential Equations	4	MATH 162; Pre or coreq MATH 163	Soph
PHYS 161	General Physics I w/Calculus	4	Pre or coreq MATH 161	Fr
PHYS 162	General Physics II w/Calculus	4	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	Coreq PHYS 220	Soph
PHYS 250	Electronics	3	PHYS 152 or 162, MATH 161; Coreq PHYS 215L	Soph
PHYS 251L	Electronics Lab	1	Coreq PHYS 250	Soph
PHYS 305L	Electro-Optics Lab	1	PHYS 210	Jr
PHYS 310	Analytical Mechanics	3	PHYS 151 or 161, PHYS 152 or 162; MATH 162	Jr
PHYS 330	Solid State Physics	3	PHYS 152 or 162, MATH 162; Coreq PHYS 331L	Jr
PHYS 331L	Solid State Physics Lab	1	Coreq PHYS 330	Jr
PHYS 360	Electromagnetic Theory	3	PHYS 151 or 161, 152 or 162; Pre or coreq MATH 230	Jr
^PHYS 497	Research Seminar I	1	Physics Major	Sr
^PHYS 498	Research Seminar II	1	PHYS 497	Sr
		<u>50</u>	total hours	

^Satisfies advanced writing requirement

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.

NAME: \_\_\_\_\_

**B.A. Degree: Physics Major (for students entering in Fall 2019/Spring 2020)**

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 '00.

General Education		Physics Major	
WHAT	WHEN	WHAT	WHEN
_____	ENGL 101/INDS 106* w/ C (2.0) [3 hrs]	_____	PHYS 161 [4 hrs]
_____	ENGL 102/INDS 102* w/ C(2.0)* [3 hrs]	_____	PHYS 162 [4 hrs]
_____	COMM 211/INDS 103 w/ C(2.0) [3 hrs]	_____	PHYS 210 [3 hrs]
	Dept senior seminar/writing course	_____	PHYS 211L [1 hr]
	Met by: _____ PHYS 497 [1 hr]	_____	PHYS 220 [3 hrs]
	AND _____ PHYS 498 [1 hr]	_____	PHYS 221L [1 hr]
		_____	PHYS 250 [3 hrs]
_____	BIOL/CHEM/ENVS/PHSC/PHYS w/ lab	_____	PHYS 251L [1 hr]
	[3 hrs]/INDS 112 [4 hrs]	_____	PHYS 305L [1 hr]
_____	MATH (except 112,141,203,205)/	_____	PHYS 310 [3 hrs]
	BIOL 215/PSYC 230/INDS 114 [3-4 hrs]	_____	PHYS 330 [3 hrs]
_____	RELG/INDS 111 [3-4 hrs]	_____	PHYS 331L [1 hr]
_____	PHIL [3 hrs]/INDS 110 [4 hrs]	_____	PHYS 360 [3 hrs]
_____	INDS 120 [3 hrs]/INDS 116 [4 hrs]	_____	PHYS 497 [1 hr]
_____	Any literature course/INDS 113[3 hrs]	_____	PHYS 498 [1 hr]
	Fine Arts		
	_____ ART (except 265)/	_____	MATH 161 [4 hrs]
	DANC/MUSC/THRE/ENGL 213/	_____	MATH 162 [4 hrs]
	INDS 107 [3-4 hrs]	_____	MATH 163 [1 hr]
	OR	_____	MATH 223 [4 hrs]
	_____ MUSC/THRE [2 hrs]	_____	MATH 230 [4 hrs]
	_____ same discipline [1 hr]		
	OR	_____	50 semester hours
	_____ MUSC/THRE [1 hr]		
	_____ same discipline [1 hr]		
	_____ same discipline [1 hr]		
_____	HIST 100 or 200 level except HIST 201/		
	or INDS 117 [3-4hrs]		
_____	CJUS/ECON/GEOG/GNST/POLS/PSYC/		
	SOCI [3hrs]/INDS 104 [4 hrs]		
_____	US Cultural Studies [3 hrs]/INDS 109 [4 hrs]		
_____	Non-Western Cultural Studies [3 hrs]/		
	INDS 108 [4 hrs]		
_____	EXSC 110/120/121/130/201/240		
	[3 hrs]/INDS 105 [4 hrs]		
_____	120 semester hours required for graduation		

➤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 or if completing the honors program.