

BS Physics - 4 year plan

Year 1: Freshman Year

Fall	Term(s)	Pre-req	Pre-req Courses	Units
MATH 2210 Calculus I	Fall & Spring	<input checked="" type="checkbox"/>	MATH 1401 or satisfactory score on placement exam	4
PHYS 1500 Tools for Physicists	Fall	<input type="checkbox"/>		3
CHEM 2100 General Chemistry	Fall & Spring	<input checked="" type="checkbox"/>	1 yr HS chemistry or equivalent AND pre- or coreq of one of Math 1301, 1401, 1601, 2210, or 2220	4
CHEM 2100L General Chemistry I Lab	Fall & Spring	<input checked="" type="checkbox"/>	co-req of CHEM 2100	1
GE courses	Fall & Spring	<input type="checkbox"/>		3
Semester Total				15

Spring	Term(s)	Pre-req	Pre-req Courses	Units
MATH 2220 Calculus II	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210 with grade of C- or higher	4
PHYS 2500 General Physics I	Fall & Spring	<input checked="" type="checkbox"/>	MATH 2210 and co-req of MATH 2220	4
PHYS 2500L General Physics I Lab	Fall & Spring	<input checked="" type="checkbox"/>	MATH 2210 and co-reqs of MATH 2220 & PHYS 2500	1
GE	Fall & Spring	<input type="checkbox"/>		3
GE A1	Fall & Spring	<input type="checkbox"/>		3
Semester Total				15

Year 2: Sophomore Year

Fall	Term(s)	Pre-req	Pre-req Courses	Units
MATH 2310 Applied Linear Algebra	Fall & Spring	<input checked="" type="checkbox"/>	Math 2210 with grade of C or higher, and Math 2220 as pre- or co-req	4
PHYS 2510 General Physics II	Fall & Spring	<input checked="" type="checkbox"/>	PHYS 2500 & MATH 2220	4
PHYS 2510L General Physics II Lab	Fall & Spring	<input checked="" type="checkbox"/>	PHYS 2500, MPHYS 2500L, & MATH 2220 and co-req of PHYS 2510	1
GE courses	Fall & Spring	<input type="checkbox"/>		6
Semester Total				15

Spring	Term(s)	Pre-req	Pre-req Courses	Units
MATH 2320 Multivariable Calculus	Fall & Spring	<input checked="" type="checkbox"/>	Math 2220 and Math 2310 both with grade of C- or higher	4
PHYS 2600L Introduction to Electronics	Spring	<input checked="" type="checkbox"/>	PHYS 2210 & MATH 2310	1
PHYS 2700 Modern Physics	Spring	<input checked="" type="checkbox"/>	MATH 2310, PHYS 1500, PHYS 2510, PHYS 2510L & a co-req of MATH 2320	3
GE courses	Fall & Spring	<input type="checkbox"/>		6
Semester Total				14

Year 3: Junior Year

Fall	Term(s)	Pre-req	Pre-req Courses	Units
PHYS 3100 Mathematical Methods of Physics	FALL	<input checked="" type="checkbox"/>	MATH 2320 with a grade of C (2.0) or higher, MATH 2310, PHYS 100, PHYS 2510, and a combined 2.0 GPC in 2000-level physics courses	4
PHYS 3200 Classical Mechanics	FALL	<input checked="" type="checkbox"/>	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	4
PHYS 3300 Computational Physics	FALL	<input checked="" type="checkbox"/>	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	3
GE courses	Fall & Spring	<input type="checkbox"/>		3
Semester Total				14

Spring	Term(s)	Pre-req	Pre-req Courses	Units
PHYS 3400 Electricity & Magnetism	Spring	<input checked="" type="checkbox"/>	PHYS 3100 with a grade of C- or better & PHYS 2700 with a grade of C- or better or co-req of PHYS 2700	3
PHYS 3500 Statistical and Thermal Physics	Spring	<input checked="" type="checkbox"/>	PHYS 2700 and PHYS 3100 both with a grade of C- or better	4
PHYS 3800 Intermediate Physics Lab	Spring	<input checked="" type="checkbox"/>	PHYS 2600L, PHYS 2700, PHYS 3300 AND a co-req of PHYS 2700 & PHYS 2600L	2
PHYS Elective	Fall & Spring	<input type="checkbox"/>		3
GE course	Fall & Spring	<input type="checkbox"/>		3
Semester Total				15

Year 4: Senior Year

Fall	Term(s)	Pre-req	Pre-req Courses	Units
PHYS 4400 Electricity & Magnetism II	FALL	<input checked="" type="checkbox"/>	PHYS 3400 with a grade of C- or better	3
PHYS 4700 Quantum Mechanics	FALL	<input checked="" type="checkbox"/>	PHYS 2700, PHYS 3100, PHYS 3200, and PHYS 3400 all with grades of C- or better in each course	4
PHYS Elective	Fall & Spring	<input type="checkbox"/>		3
GE courses	Fall & Spring	<input type="checkbox"/>		6
Semester Total				16

Spring	Term(s)	Pre-req	Pre-req Courses	Units
PHYS 4800 Senior Thesis (WI)*	Fall & Spring	<input checked="" type="checkbox"/>	PHYS 3200, PHYS 3400, and PHYS 3800	2
PHYS Elective	Fall & Spring	<input type="checkbox"/>		3
GE course	Fall & Spring	<input type="checkbox"/>		3
GE courses	Fall & Spring	<input type="checkbox"/>		6
Semester Total				14

Degree Units

118

*Can be substituted by ASTR 4000 Observational Astronomy (WI)