BS Physics - 2 year plan

		Fall	Pre-req courses	units	Term offered	S - 2 year plan	Spring	Pre-reg courses	units	Term offered
V4	MATH 2310					CUEM 0100				
Year 1	MATH 2310	Applied Linear Algebra	Math 2210 with grade of C- or higher, and Math 2220 as	4	Fall & Spring	CHEM 2100	General Chemistry I	1 yr HS chemistry or equivalent AND pre- or co-reg of one of Math 1301,	4	Fall & Spring
			pre- or co-req					1401. 1601. 2210. or 2220		
	PHYS 1500	Tools for Physicists	none	3	Fall	CHEM 2100L	General Chemistry I Laboratory	co-req of CHEM 2100	1	Fall & Spring
	PHYS 3100	Mathematical Methods of	MATH 2320 with a grade of C	4	Fall	PHYS 2600L	Introduction to Electronics	PHYS 2210 & MATH 2310	1	Spring
	111100100	Physics	(2.0) or higher, MATH 2310, PHYS 100, PHYS 2510, and a	•	T dii	71110 20002	introduction to Liectronics	11110 22 10 G WATT 2010	ı.	opinig
			combined 2.0 GPC in 2000-							
			level physics courses							
	PHYS 3200	Classical Mechanics	PHYS 2510, PHYS 2510L,	4	Fall	PHYS 3400	Electricity & Magnetism	PHYS 3100 with a grade of C- or	3	Spring
			and a co-req of PHYS 3100					better & PHYS 2700 with a grade of C- or better or co-req of PHYS 2700		
	PHYS 3300	Computational Physics	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	3	Fall	PHYS 3800	Intermediate Physics Laboratory	PHYS 2600L, PHYS 2700, PHYS 3300 AND a co-req of PHYS 2700 & PHYS 2600L	2	Spring
							GE courses		3	Fall & Spring
		Total units		18			Total units		14	
Year 2	PHYS 4400	Electricity & Magnetism II	PHYS 3400 with a grade of C- or better	3	Fall	PHYS 3500	Statistical and Thermal Physics	PHYS 2700 and PHYS 3100 both with a grade of C- or better	4	Spring
	PHYS 4700	Quantum Mechanics	PHYS 2700, PHYS 3100, PHYS 3200, and PHYS 3400 all with grades of C- or better in each course	4	Fall	PHYS 4800	Senior Thesis (WI)*	PHYS 3200, PHYS 3400, and PHYS 3800	2	Spring
		PHYS Elective		3	Fall & Spring		PHYS Elective		6	Fall & Spring
		GE courses		3	Fall & Spring		GE courses		3	Fall & Spring
		Total units		13			Total units		15	
							*Can be substituted by ASTR			
							4000 Observational Astronomy (WI)			

NOTES:

- PHYS courses are in bold.
- 2. Assumes student have transferred in with the Associate in Science Degree (AS-T) in Physics. Includes intro physics sequence through modern physics, year-long calculus sequence, and multivariable calculus, plus all lower division GEs.
- 3. An additional 2 units of coursework of the student's choosing across the university will be required for graduation.
- 4. Completing the requirements of the BS Physics will simultaneously satisfy the following GE requirements:
- GE Math (Area B4)
- GE Physical Science (Area B1)

GE lab (Area B-lab)

1 out of 2 Writing Intensive courses - upper division (this leaves 1 writing intensive course of the student's choosing upper or lower division

Elective Courses

	Course	Pre-req courses	units	Term offered
PHYS 3600	Data Acquisition and Control	PHYS 2600L, PHYS 3100, PHYS 3300	2	Spring
PHYS 4600	Electronics	PHYS 3600	3	
PHYS 4851-3	Special Topics in Physics	depends on the topic	1-3	
PHYS 4851L-2L	Special Topics in Physics	depends on the topic	1-3	
PHYS 5100	Mathematical Methods of Physics II	PHYS 3100	3	
PHYS 5400	Optics	PHYS 4400	3	Spring
PHYS 5500	Solid State Physics	PHYS 4700	3	Spring
PHYS 5700	Quantum Mechanics II	PHYS 4700 with grade of C (2.0) or better	3	Spring
PHYS 5751-3	Internship		1-3	Fall & Spring
PHYS 5851-3	Special Topics in Physics	depends on the topic	1-3	
PHYS 5851L-2L	Special Topics in Physics	depends on the topic	1-3	
PHYS 5951-3	Independent Study		1-3	Fall & Spring
ASTR 2300	Introduction to Astronomy for Scientists*	PHYS 2510, PHYS 2510L	4	Spring
ASTR 3300	Astrophysics of Planetary Systems	ASTR 2300	3	
ASTR 3310	Astrophysics of Galaxies and Cosmology	ASTR 2300	3	
ASTR 4000	Observational Astronomy (WI)	ASTR 2300, PHYS 3300 or other programming course	3	Fall

* Does not count as an elective towards the BA or are not guarenteed to be BS physics, but is a pre-req offered each year, but a for ASTR 3300, ASTR 3310, selection of electives will and ASTR 4000 which are approved electives for those degrees.

** Specific elective courses be offered each year at the discretion of the department.