

BS Physics
(Without Teacher Certification)
(Calculus Ready)

Students can double major by careful choice of approved electives and adding two additional courses (see advisor)

Freshman Fall			Freshman Spring		
PHYS 122	Principles of Physics I	4	PHYS 242	Principles of Physics II	4
MATH 120	Calculus I	4	MATH 209	Calculus II	4
	Approved CS elective ¹	3	HIST 201	U.S. History through 1877	3
ENGL 111	Introduction to College Composition	3	ENGL 112	College Composition and Research	3
HLTH 101	Wellness for Life	3		Visual & Performing Arts Elective ²	3
17			17		

Sophomore Fall			Sophomore Spring		
MATH 332	Linear Algebra	3	PHYS 334	Modern Physics I	3
MATH 333	Calculus III	4	MATH 306	Differential Equations	3
HIST 202	US History since Reconstruction	3		Sophomore Literature	3
POLS 201	American National Government	3	POLS 202	Texas Government	3
	Support field ³	3*		Support field ³	4*
16			16		

Junior/Senior Fall (even year)			Junior/Senior Spring (odd year)		
PHYS 331	Mechanics I	3	PHYS 430	Math Methods for Physicists & Engineering	3
PHYS 332	Electromagnetic Field Theory	3		Advanced PHYS elective ⁵	3
	Support field ³	3*		Support field ³	4*
	Communications ⁴	3		Social & Behavioral Science Elective ⁶	3
				Elective ⁷	3*
12			16		

Junior/Senior Fall (odd year)			Junior/Senior Spring (even year)		
PHYS 435	Quantum Physics	3		Advanced PHYS elective ⁵	6
PHYS 333	Thermodynamics	3		Social & Behavioral Science Elective ⁶	3
	Advanced Support field ³	3*		Advanced Support field ³	4*
	Advanced elective ⁷	3*		Advanced elective ⁷	3*
12			16		

*** Support field and elective courses must be chosen so that the final degree plan has at least 128 semester hours, at least 45 of which are advanced hours**

¹An appropriate course should be selected in consultation with the academic advisor.

²Courses that meet the Visual and Performing Arts elective requirement are listed in the university catalog.

³Support field should be selected in consultation with the academic advisor. Students must complete at least 26 hours (at least 9 of which are advanced) in the support field. Standard tracks include Nuclear Engineering, Hydrology, Mathematics, Computer Science, Engineering, Pre-Medicine, Medical Physics, and Chemistry (Unique tracks available with the consent of academic advisor)

⁴PHYS majors should take COMS 301 to satisfy the Communications requirement.

⁵ An appropriate course should be selected in consultation with the academic advisor.

⁶PHYS majors are encouraged to take ENGR 303 and PHIL 301 to satisfy the Social and Behavioral Sciences requirement.

⁷Electives should be selected in consultation with the academic advisor. Students must complete at least 10 hours (at least 6 of which are advanced) of electives.