

**BS Physics**  
**(Without Teacher Certification)**  
**(Precalculus Ready)**

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

Freshman Fall			Freshman Spring		
PHYS 104	General Physics I	4	PHYS 122	Principles of Physics I	4
MATH 118	Precalculus	4	MATH 120	Calculus I	4
	Approved CS elective <sup>1</sup>	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 <sup>2</sup>	3
17			17		

Sophomore Fall			Sophomore Spring		
PHYS 242	Principles of Physics II	4	PHYS 334	Modern Physics I	3
MATH 209	Calculus II	4	MATH 306	Differential Equations	3
HIST 202	US History since Reconstruction	3	MATH 333	Calculus III	4
POLS 201	American National Government	3	POLS 202	Texas Government	3
	Support field <sup>3</sup>	3*		Support field <sup>3</sup>	4*
17			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 <sup>5</sup>	3
	Support field <sup>3</sup>	3*		Support field <sup>3</sup>	4*
	Communications <sup>4</sup>	3		Social & Behavioral Science Elective <sup>6</sup>	3
	Sophomore Literature	3		Elective <sup>7</sup>	3*
15			16		

Junior/Senior Fall (odd year)			Junior/Senior Spring (even year)		
PHYS 435	Quantum Physics	3		Advanced PHYS elective <sup>5</sup>	6
PHYS 333	Thermodynamics	3		Social & Behavioral Science Elective <sup>6</sup>	3
	Advanced Support field <sup>3</sup>	3*		Advanced Support field <sup>3</sup>	4*
	Advanced elective <sup>7</sup>	3*		Advanced elective <sup>7</sup>	3*
MATH 332	Linear Algebra	3			
15			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**

<sup>1</sup>An appropriate course should be selected in consultation with the academic advisor.

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

<sup>3</sup>Support 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)

<sup>4</sup>PHYS majors should take COMS 301 to satisfy the Communications requirement.

<sup>5</sup> An appropriate course should be selected in consultation with the academic advisor.

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

<sup>7</sup>Electives 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.