

# THE BACHELOR OF SCIENCE DEGREE IN PHYSICS

NAME: \_\_\_\_\_ Banner ID: \_\_\_\_\_ CATALOG: **2004-2006**

**REQUIRED MAJOR WORK:**

(55 HOURS - 12 Minimum Upper Division Level)

**43 HOURS PHYSICS CORE**

	Semester	Grade	School
PHY 1904 Technical Physics I*			
PHY 1911 Tech Physics I Lab*			
PHY 1924 Technical Physics II*			
PHY 1931 Tech Physics II Lab*			
PHY 3103 Modern Physics*			
PHY 3203 Classical Mechanics*			
PHY 3293 Thermal Physics*			
PHY 3343 Adv Phys Lab *			
PHY 3423 Electricity & Magnetism*			
PHY 3443 Modern Optics*			
PHY 3513 Electrodynamics*			
PHY 3823 Mathematical Phys I*			
PHY 4263 Quantum Mechanics I*			
PHY 4423 Quantum Mechanics II*			
PHY 4823 Mathematical Physics II*			

\*Requires MAT prerequisite

**REQUIRED SUPPORT WORK:**

**(27 HOURS)**

	Semester	Grade	School
CHE 1103 General Chemistry I*			
CHE 1303 General Chemistry II*			
CHE 1312 General Chem II Lab *			
CS 1073 Intro Comp Prog			
MAT 1214 Calculus I			
MAT 1223 Calculus II			
MAT 2213 Calculus III			
MAT 2233 Linear Algebra			
MAT 3613 Differential Equa. I			

**9 ADDITIONAL HOURS IN COS**

Course	Semester	Grade	School

**12 ADDITIONAL HOURS FROM THE FOLLOWING:**

PHY 3123 Semiconductor Technology*			
PHY 3143 Computer Visualization*			
PHY 3313 Solid State Physics*			
PHY 3453 Lasers: Theory and App*			
PHY 4003 Intro to Astrophysics*			
PHY 4013 Relativity: Special & Gen*			
PHY 4033 Cosmology*			
PHY 4133 Num Meth for Phys*			
PHY 4203 Classical Mechanics II*			
PHY 4563 Biophotonics*			
PHY 4911-3 Independent Study			
PHY 4953 Spec Studies in Physics			
PHY 4993 Honors Research			

**CORE CURRICULUM: (42 TOTAL HOURS)**

See catalog for course selection

Rhetoric	6 Hours	Course	Grade	School
Rhetoric	6 Hours	WRG1013		
		WRG1023		
<b>Domain IA</b>				
Mathematics	3 Hours	MTC 1073 or above		
<b>Domain IB</b>				
Natural Sciences	(6 Hours satisfied in major/support wk)			
<b>Domain IIA</b>				
U.S. History	6 Hours			
<b>Domain IIB</b>				
Political Sci	3 Hours	POL 1013		
	3 Hours			
<b>Domain IIC</b>				
Soc/Beh Sci	3 Hours			
<b>Domain IID</b>				
Economics	3 Hours			
<b>Domain IIIA</b>				
Literature	3 Hours			
<b>Domain IIIB</b>				
The Arts	3 Hours			
<b>Domain IV</b>				
Interdiscp. Studies	3 Hours			

**It is understood that all other provisions of the catalog must be met.**

Note 1: The above requirements will meet all requirements for this student to complete the major and any required support work or required elective.

Note 2: Approved substitutes must include course ID and where completed, if not UTSA.

Note 3: A grade of 'C' or better is required for Technical Physics I & II and labs.

**The total hours for the BS in Physics is 124.**

55 Major + 36 Support Work + 33 CC (42 Hrs CC - 6 Hrs Science taken within the major and 3 Hrs MAT req) = 124.

\_\_\_\_\_  
Advisor's Signature

\_\_\_\_\_  
Date