

PHYSICS, B.S.

Requirements for a Major in Physics

Code	Title	Hours
Forty-three semester hours including:		
Required Courses		
PHY 1420	General Physics I	4
PHY 1430	General Physics II	4
PHY 2135	Basic Electronics Laboratory	1
PHY 2190	Introduction to Research in Physics	1
PHY 2350	Modern Physics	3
PHY 2360	Mathematical and Computational Physics	3
PHY 3276	Intermediate Physics Laboratory II	2
PHY 3320	Intermediate Classical Mechanics	3
PHY 3330	Intermediate Electricity and Magnetism	3
PHY 3372	Introductory Quantum Mechanics I	3
PHY 3373	Introductory Quantum Mechanics II	3
PHY 4190	Dissemination of Research Results in Physics	1
PHY 4322	Advanced Topics in Classical Physics	3
PHY 4340	Statistical and Thermal Physics	3
PHY 4001	Exit Exam	0
Select six semester hours from the following:		6
PHY 4372	Introductory Solid State Physics	
PHY 4373	Introductory Nuclear and Particle Physics	
PHY 4374	Introduction to Relativistic Quantum Mechanics	
Subtotal		43
Required Courses in Other Fields		
CHE 1301	Basic Principles of Modern Chemistry I	3
CSI 1430	Introduction to Computer Science I with Laboratory	4
MTH 1321	Calculus I	3
MTH 1322	Calculus II	3
MTH 2311	Linear Algebra	3
MTH 2321	Calculus III	3
MTH 3325	Ordinary Differential Equations	3
MTH 3326	Partial Differential Equations	3
Nine semester hours from the following: BIO, CHE, CSI, GEO, MTH, or STA. ^{1,2}		9
Total Hours		77

¹ Excluding STA 2381 Introductory Statistical Methods

² Courses selected must apply to a major in these fields.