

ASTROPHYSICS, B.S.

Requirements for a Major in Astrophysics

Code	Title	Hours
Required Courses		
Forty-seven semester hours including:		
PHY 1420	General Physics I	4
PHY 1430	General Physics II	4
PHY 2190	Introduction to Research in Physics	1
PHY 2350	Modern Physics	3
PHY 2360	Mathematical and Computational Physics	3
PHY 2455	Foundations of Astronomy	4
PHY 3320	Intermediate Classical Mechanics	3
PHY 3330	Intermediate Electricity and Magnetism	3
PHY 3350	Topics in Astronomy	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 4340	Statistical and Thermal Physics	3
PHY 4350	Introduction to Stellar Structure and Evolution	3
PHY 4351	Introduction to Modern Cosmology	3
PHY 4001	Exit Exam	0
Three semester hours of 4000-level PHY		3
Subtotal		47
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		81

¹ Excluding STA 2381 Introductory Statistical Methods

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