

- - - - - **REQUIREMENTS FOR B.S. IN ASTROPHYSICS (43 hours)** - - - - -

You must achieve a minimum cumulative GPA of 2.00 in major area courses: (PHYS 100-540).

PHYSICS COURSES (27 hrs):		Credits	Prerequisite Notes
PHYS 111	General Physics	_____ (3)	_____
PHYS 111L	General Physics Lab	_____ (1)	_____
PHYS 112	General Physics	_____ (3)	_____
PHYS 112L	General Physics Lab	_____ (1)	_____
PHYS 301	Classical Mechanics	_____ (3)	_____
PHYS 230	Introduction to Modern Physics I	_____ (3)	_____
PHYS 403	Introductory Quantum Mechanics	_____ (3)	_____
PHYS 405	Thermal Physics	_____ (3)	_____
PHYS 409	Electricity and Magnetism	_____ (3)	_____
PHYS 419	Research Seminar	_____ (1)	_____
PHYS 420	Senior Research or	_____ (3)	_____
PHYS 499	Bachelor's Essay	_____ (6)	_____
ASTRONOMY COURSES (13 hrs):			
ASTR 206	Planetary Astronomy	_____ (3)	_____
ASTR 311	Stellar Astronomy and Astrophysics	_____ (3)	_____
ASTR 312	Galactic/Extragalactic Astronomy	_____ (3)	_____
ASTR 377	Experimental Astronomy	_____ (4)	_____
Three additional hours from the following:			
PHYS 390 Research (astronomy topic required)	PHYS 410 Electricity and Magnetism		ASTR 413 Astrophysics
PHYS 404 Intro to Quantum Mechanics II	PHYS 412 Special Topics (astronomy topic required)		PHYS 415 Fluid Mechanics
PHYS 407 Intro to Nuclear Physics			
PHYS	PHYS Elective 300 or above	_____ (3)	_____
MATHEMATICS Requirement (18 hrs):			
MATH 120	Introductory Calculus	_____ (4)	_____
MATH 220	Calculus II	_____ (4)	_____
MATH 221	Calculus III	_____ (4)	_____
MATH 203	Linear Algebra	_____ (3)	_____
MATH 323	Differential Equations	_____ (3)	_____
Demonstrated Skill in Analytical Computer Programming:			
(e.g. MATH 245/246 Numerical Methods and Mathematical Computing)			
		_____	_____
		_____	_____

Notes: