



----- **REQUIREMENTS FOR B.A. IN ASTRONOMY (30 hours)** -----

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

<b>INTRODUCTORY COURSES (22 hrs):</b>		<b>Credits</b>	<b>Prerequisite Notes</b>
PHYS 111	General Physics	_____ (3)	_____
PHYS 111L	General Physics Lab	_____ (1)	_____
PHYS 112	General Physics	_____ (3)	_____
PHYS 112L	General Physics Lab	_____ (1)	_____
PHYS 230	Introduction to Modern Physics I	_____ (3)	_____
PHYS 419	Research Seminar	_____ (1)	_____
PHYS 420	Senior Research	_____ (3)	_____
PHYS 499	Bachelor's Essay	_____ (6)	_____
<b>And either</b>			
ASTR 206	Planetary Astronomy	_____ (3)	_____
<b>Or</b>			
ASTR 311	Stellar Astronomy and Astrophysics	_____ (3)	_____

**Physics Elective Requirements (12 hrs):** choose four courses from the following (at least 6 hours from the **boldface** courses):

ASTR 205 Intelligent Life in the Universe	GEOL 412 Crustal Geophysics	PHYS 405 Thermal Physics
ASTR 206 Planetary Astronomy	PHYS 301 Classical Mechanics	PHYS 407 Intro to Nuclear Physics
ASTR 311 Stellar Astronomy and Astrophysics	PHYS 306 Physical Optics	PHYS 409 Electricity and Magnetism I
ASTR 312 Galactic and Extragalactic Astronomy	<b>PHYS 390 Research (astronomy topic required)</b>	PHYS 410 Electricity and Magnetism II
ASTR 377 Experimental Astronomy	PHYS 403 Intro Quantum Mechanics I	PHYS 412 Special Topics (astronomy topic required)
ASTR 413 Astrophysics	PHYS 404 Intro Quantum Mechanics II	PHYS 415 Fluid Mechanics
GEOL 206 Planetary Geology		
PHYS	PHYS Elective	_____ (1 to 4)
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**MATHEMATICS Requirement (12 hrs):**

MATH 120	Introductory Calculus	_____ (4)	_____
MATH 220	Calculus II	_____ (4)	_____
MATH 221	Calculus III	_____ (4)	_____

Notes: