

University of Hawai'i at Mānoa Colleges of Arts & Sciences Program Sheet 2015-2016 Bachelor of Science (BS) in Astrophysics Admissions: Open Process: Declaration Min. Total Credits: 124 (112 in core & major + 12 in electives)

UHM General Education Core Requirements

Foundations
FW ENG 100, 100A, 190, or ESL 100
□ FS MATH 241
$\Box FG(A/B/C)$
$\Box FG(A/B/C)$

Diversification

\Box DA / DH / DL
DA/DH/DL
DB
DP CHEM 161 or 171, or PHYS 170
DY CHEM 161L or 171L, or PHYS 170L
DS
DS

* See degree, college and major requirements for courses that can also fulfill these.

UHM Graduation Requirements

Focus				
	H			
	E (300+) PHYS 485			
	D (300+) ASTR 301			
	W PHYS 274L			
	W MATH 311			
	W ASTR 300L			
	W (300+) ASTR 494			
	W (300+)			
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	101 102			
	101 102 201			
	101 102 201			
	101 102 201			
	101 102 201 202			
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- 2.0 cumulative or higher (*Note: Other GPAs may be required.*)
- Good academic standing

This program sheet was prepared to provide information and does not constitute a contract. See back for major requirements. Meet regularly with your major advisor. Advising is mandatory every semester for Astrophysics majors.

Degree Requirements

	Calculus I
	Calculus II
	Chemistry I with lab
	Chemistry II with lab
	Physics I with lab
	Physics II with lab
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Major Requirements for BS in Astrophysics
Admission: Open
Application: NA
Min. major credits: 63 in Physics and Astronomy courses (88 with related requirements)
Min. C grade (not C-) in all courses
Requirements
Astrophysics Related Requirements (25-26 credits)
$\Box \text{ CHEM } 161^{*\text{DP}} / \Box 161L^{*\text{DY}}$
\Box CHEM 162* ^{DP} / \Box 162L* ^{DY} or 171/171L or 181A/181L
MATH 241* ^{FS}
MATH 242
□ MATH 243
□ MATH 244
□ MATH 311 or 307
MATH 251A $*^{FS}$, 252A and 253A may be substituted for MATH 241-244.
MATH 215* ^{FS} and 216 may be substituted for 241 and 242 with approval from physics advisor.
Astrophysics Core Courses (53 credits; see catalog for prerequisites)
$\square PHYS 170*^{DP} / \square 170L*^{DY}$
$\square PHYS 272^{*DP} / \square 272L^{*DY}$
$\square PHYS 274^{*DP} / \square 274L^{*DY}$
□ PHYS 310
□ PHYS 311
PHYS 350
□ PHYS 450
□ PHYS 480
PHYS 485
ASTR 241 ^{DP}
\Box ASTR 242 ^{DP}
ASTR 300 / 300L
□ ASTR 301
□ ASTR 423
□ □ ASTR 494 (6 credits, distributed across two semesters)
Additional Courses (9 credits; see catalog for prerequisites)
1 course from Group 1: ASTR 320, 427, 430
2 courses from Group 2: PHYS 400, 460, 481, 490
Notes
College of Natural Sciences Advising: Bilger 102; (808) 956-6451
Department of Physics and Astronomy: Watanabe 416; (808) 956-7087; undergrad@ifa.hawaii.edu