

University of Hawai'i at Mānoa Colleges of Arts & Sciences Program Sheet 2017-2018 Bachelor of Science (BS) in Astrophysics Admissions: Open Process: Declaration Min. Total Credits: 124 (124 in core & major + 0 in electives)

UHM General Education Core Requirements

Foundations
FW ENG 100, 100A, 190, ESL 100, or AMST 111
□ FS MATH 241
$\Box FG(A/B/C)$
$\Box FG(A/B/C)$

Diversification

 $\square DA/DH/DL$ $\square DA/DH/DL$

DDB

DP CHEM 161 or 171, or PHYS 170

DY CHEM 161L or 171L, or PHYS 170L

D DS

DS DS

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

UHM Graduation Requirements

Focus
H
E (300+) PHYS 485
• O (300+) ASTR 301, PHYS 485
□ W PHYS 274L
□ W ASTR 300L
□ W (300+) ASTR 494
□ W (300+) ASTR 494
Howeiion / Second Longuage
Hawaiian / Second Language
□ 101
1 01
 101 102
 101 102 201
 101 102 201
 101 102 201 202
 101 102 201 202 Credit Minimums
 101 102 201 202 Credit Minimums 120 total applicable
 101 102 201 202 Credit Minimums • 120 total applicable • 30 in residence at UHM

- 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

Ba	achelor of Science Requirements
	Calculus I
	Calculus II
	Chemistry I with lab
	Chemistry II with lab
	Physics I with lab
	Physics II with lab
Re	efer to major requirements for the specific courses that
sa	tisfy these requirements.
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С	ollege Requirements
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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 credits)
\Box CHEM 161* ^{DP} / \Box 161L* ^{DY}
\Box CHEM 162* ^{DP} / \Box 162L* ^{DY} or 171/171L or 181A/181L
\Box MATH 241* ^{FS}
□ MATH 242
□ MATH 243
□ MATH 244
□ MATH 307 or 311
$MATH 251A *^{FS}, 252A and 253A may be substituted for MATH 241-244.$
MATH 215* ^{FS} and 216 may be substituted for 241 and 242 with approval from major advisor.
Astrophysics Core Courses (54 credits; see catalog for prerequisites)
\Box PHYS 170* ^{DP} / \Box 170L* ^{DY}
\square PHYS 272* ^{DP} / \square 272L* ^{DY}
\square PHYS 274* ^{DP} / \square 274L* ^{DY}
□ PHYS 310
PHYS 311
□ PHYS 350
□ PHYS 450
D PHYS 480
□ PHYS 485
\Box 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, 426, 430
2 courses from Group 2: PHYS 400 (recommended), 460, 481, 490
Notes
Student Academic Success Center: Keller 213; (808) 956-5911; <u>cnsadvis@hawaii.edu</u> ; www.hawaii.edu/natsci/advising
Department of Physics and Astronomy: Watanabe 416; (808) 956-7087; <u>undergrad@ifa.hawaii.edu</u>
Astronomy Undergraduate Advisor: Michael Nassir; Watanabe 426; (808) 956-2922; nassir@hawaii.edu