



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 (112 in core & major + 12 in electives)

UHM General Education Core Requirements
Foundations
<input type="checkbox"/> FW ENG 100, 100A, 190, ESL 100, or AMST 111
<input type="checkbox"/> FS MATH 241
<input type="checkbox"/> FG (A / B / C)
<input type="checkbox"/> FG (A / B / C)
Diversification
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DB
<input type="checkbox"/> DP CHEM 161 or 171, or PHYS 170
<input type="checkbox"/> DY CHEM 161L or 171L, or PHYS 170L
<input type="checkbox"/> DS
<input type="checkbox"/> DS
<i>* See degree, college and major requirements for courses that can also fulfill these.</i>
UHM Graduation Requirements
Focus
<input type="checkbox"/> H
<input type="checkbox"/> E (300+) PHYS 485
<input type="checkbox"/> O (300+) ASTR 301
<input type="checkbox"/> W PHYS 274L
<input type="checkbox"/> W
<input type="checkbox"/> W ASTR 300L
<input type="checkbox"/> W (300+) ASTR 494
<input type="checkbox"/> W (300+) ASTR 494
Hawaiian / Second Language
<input type="checkbox"/> 101
<input type="checkbox"/> 102
<input type="checkbox"/> 201
<input type="checkbox"/> 202
Credit Minimums
• 120 total applicable
• 30 in residence at UHM
• 45 upper division (300+ level) courses
Grade Point Average
• 2.0 cumulative or higher (<i>Note: Other GPAs may be required.</i>)
• Good academic standing

Degree Requirements
Bachelor of Science Requirements
<input type="checkbox"/> Calculus I
<input type="checkbox"/> Calculus II
<input type="checkbox"/> Chemistry I with lab
<input type="checkbox"/> Chemistry II with lab
<input type="checkbox"/> Physics I with lab
<input type="checkbox"/> Physics II with lab
<i>Refer to major requirements for the specific courses that satisfy these requirements.</i>
College Requirements
Credit Maximums
• 8 KRS activity
• 9 Directed Reading / Research
• 12 Practicum / Internship

*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.*

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)

CHEM 161*^{DP} / 161L*^{DY}

CHEM 162*^{DP} / 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 major advisor.*

Astrophysics Core Courses (54 credits; see catalog for prerequisites)

PHYS 170*^{DP} / 170L*^{DY}

PHYS 272*^{DP} / 272L*^{DY}

PHYS 274*^{DP} / 274L*^{DY}

PHYS 310

PHYS 311

PHYS 350

PHYS 450

PHYS 480

PHYS 485

ASTR 241^{DP}

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

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2 courses from Group 2: PHYS 400, 460, 481, 490

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Notes

Department of Physics and Astronomy:
Astrophysics Undergraduate Advisors:

Watanabe 416; (808) 956-7087; undergrad@ifa.hawaii.edu
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Michael Nassir; Watanabe 426; (808) 956-2922; nassir@hawaii.edu