



University of Hawai'i at Mānoa
Colleges of Arts & Sciences Program Sheet 2016-2017
Bachelor of Arts (BA) in Astronomy
Admissions: Open Process: Declaration
Min. Total Credits: 120 (111 in core & major + 9 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 151
<input type="checkbox"/> DY CHEM 161L or 171L, or PHYS 151L
<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 ASTR 281
<input type="checkbox"/> W ASTR 300L
<input type="checkbox"/> W
<input type="checkbox"/> W (300+) ASTR 380
<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) credits
Grade Point Average
• 2.0 cumulative or higher (<i>Note: Other GPAs may be required.</i>)
• Good academic standing

Degree Requirements
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 Astronomy majors.*

Major Requirements for BA in Astronomy

Admission: Open

Application: NA

Min. major credits: 48 in Astronomy and Physics courses (64 with related requirements)

Min. C grade (not C-) in all courses

Requirements

Astronomy & Physics Related Requirements (16 credits)

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

CHEM 162*^{DP} / 162L*^{DY} or 171/171L or 181A/181L

MATH 241*^{FS}

MATH 242

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.*

Recommended languages: German, French, or Japanese

Astronomy & Physics Core Courses (27 credits; see catalog for prerequisites)

PHYS 151*^{DP} / 151L*^{DY}

PHYS 152*^{DP} / 152L*^{DY}

PHYS 485

ASTR 210^{DP}

ASTR 300 / 300L

ASTR 301

ASTR 320

ASTR 494 (3 credits)

Additional Courses (21 credits; see catalog for prerequisites)

3 courses from Group 1: ASTR 110, 120, 130, 140, 150, 280, 281, 380, 399, 426, 430, 494

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Must include at least 6 upper division credits, including at least 3 credits at the 400-level.

110-150 only count if taken before 210; 399 may be taken for a maximum of 3 credits; 494 may be taken a second time as an elective only in addition to the core requirement.

4 courses from Group 2: CHEM 272, ECON 321, EE 160, GG 101 (or 170), any GG course at 200-level or higher worth at least 3 credits, ICS 111, 211, MATH 243, 244, PHYS 274, any MATH or PHYS course at 300-level or higher worth at least 3 credits.

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Notes

Department of Physics and Astronomy:

Watanabe 416; (808) 956-7087; undergrad@ifa.hawaii.edu

Astronomy Undergraduate Advisors:

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