



**University of Hawai'i at Mānoa**  
**Colleges of Arts & Sciences Program Sheet 2015-2016**  
**Bachelor of Arts (BA) in Physics**  
**Admissions: Open Process: Declaration**  
**Min. Total Credits: 120 (101 in core & major +19 in electives)**

UHM General Education Core Requirements
<b>Foundations</b>
<input type="checkbox"/> FW ENG 100, 100A, 190, or ESL 100
<input type="checkbox"/> FS MATH 241
<input type="checkbox"/> FG (A / B / C)
<input type="checkbox"/> FG (A / B / C)
<b>Diversification</b>
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DB
<input type="checkbox"/> DP CHEM 161 or PHYS 170
<input type="checkbox"/> DY CHEM 161L 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
<b>Focus</b>
<input type="checkbox"/> H
<input type="checkbox"/> E (300+) PHYS 485
<input type="checkbox"/> O (300+)
<input type="checkbox"/> W PHYS 274L
<input type="checkbox"/> W MATH 311
<input type="checkbox"/> W PHYS 480L
<input type="checkbox"/> W (300+) PHYS 305 or 475 or 481L
<input type="checkbox"/> W (300+) PHYS 305 or 475 or 481L
<b>Hawaiian / Second Language</b>
<input type="checkbox"/> 101
<input type="checkbox"/> 102
<input type="checkbox"/> 201
<input type="checkbox"/> 202
<b>Credit Minimums</b>
• 120 total applicable
• 30 in residence at UHM
• 45 upper division (300+ level) credits
<b>Grade Point Average</b>
• 2.0 cumulative or higher ( <i>Note: Other GPAs may be required.</i> )
• Good academic standing

Degree Requirements
<b>College Requirements</b>
<b>Credit Maximums</b>
• 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 Physics majors.*

## Major Requirements for BA in Physics

Admission: Open

Application: NA

Min. major credits: 42-44 in Physics courses (63-65) with related requirements)

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

### Requirements

#### Physics Related Requirements (21 credits)

CHEM 161<sup>\*DP</sup> /  161L<sup>\*DY</sup> or 171/171L or 181A/181L

MATH 241<sup>\*FS</sup>

MATH 242

MATH 243

MATH 244

MATH 311 or 307

*MATH 251A<sup>\*FS</sup>, 252A and 253A may be substituted for MATH 241-244.*

*MATH 215<sup>\*FS</sup> and 216 may be substituted for 241 and 242 with approval from physics advisor.*

#### Physics Core Courses (25 credits; see catalog for prerequisites)

PHYS 170<sup>\*DP</sup> /  170L<sup>\*DY</sup>

PHYS 272<sup>\*DP</sup> /  272L<sup>\*DY</sup>

PHYS 274<sup>\*DP</sup> /  274L<sup>\*DY</sup>

PHYS 310

PHYS 350

PHYS 400

PHYS 480

#### Additional Courses (17-19 credits; see catalog for prerequisites)

**1 course** from Group 1: PHYS 305, 475, 480L; EE 211; MATH 407

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#### Interdisciplinary Concentration:

Minimum of 15 credits with coherent theme related to physics

Minimum 12 credits of non-introductory courses at 200-level or above

Proposed courses must be approved by department

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### Notes

College of Natural Sciences Advising: Bilger 102; (808) 956-6451

Physics Department: Watanabe 416; (808) 956-7087; physics@hawaii.edu; www.phys.hawaii.edu

Physics Undergraduate Advisors:

Eric Szarmes; Watanabe 212; (808) 956-2923; szarmes@hawaii.edu

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

Chester Vause; Watanabe 434; (808) 956-2989; cvause@hawaii.edu