



**University of Hawai'i at Mānoa**  
**Colleges of Arts & Sciences Program Sheet 2012-2013**  
**Bachelor of Arts (BA) in Physics**  
**Admissions: Open Process: Declaration**  
**Min. Total Credits: 120 (111 in core & major + 9 in electives)**

| UHM General Education Core Requirements                                                      |
|----------------------------------------------------------------------------------------------|
| <b>Foundations</b>                                                                           |
| <input type="checkbox"/> FW                                                                  |
| <input type="checkbox"/> FS                                                                  |
| <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                                                                  |
| <input type="checkbox"/> DY                                                                  |
| <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+)                                                            |
| <input type="checkbox"/> O (300+)                                                            |
| <input type="checkbox"/> W                                                                   |
| <input type="checkbox"/> W                                                                   |
| <input type="checkbox"/> W                                                                   |
| <input type="checkbox"/> W (300+)                                                            |
| <input type="checkbox"/> W (300+)                                                            |
| <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                                                                     |
| • 60 non-introductory                                                                        |
| <b>Grade Point Average</b>                                                                   |
| • 2.0 cumulative or higher ( <i>Note: Other GPAs may be required.</i> )                      |
| • Good academic standing                                                                     |

| Degree Requirements                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bachelor of Arts Requirement (Can also fulfill FS)</b>                                                                          |
| <input type="checkbox"/> MATH 100, 112, 140, 161, 203, 215, 241, 251A; PHIL 110, 111; BUS 250; ICS 141, 241; NREM 203; or SOCS 150 |
| <b>College Requirements</b>                                                                                                        |
| <b>A &amp; S Options - Complete at least one option</b><br><i>(BA Courses cannot double count with Gen. Ed. Core)</i>              |
| <input type="checkbox"/> <b>Bachelor of Arts Breadth (3 credit each)</b>                                                           |
| <input type="checkbox"/> AH                                                                                                        |
| <input type="checkbox"/> LLL                                                                                                       |
| <input type="checkbox"/> NS                                                                                                        |
| <input type="checkbox"/> SS                                                                                                        |
| <input type="checkbox"/> <b>Bachelor of Arts Depth - see list of A &amp; S depts.</b>                                              |
| Minor                                                                                                                              |
| Certificate                                                                                                                        |
| 2 <sup>nd</sup> A & S Major                                                                                                        |
| <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.*

## Major Requirements for BA in Physics

Admission: Open

Application: NA

Min. major credits: 41 (66 with related requirements)

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

### Requirements

#### Physics 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

*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.*

#### Physics Core Courses (38-39 credits; see catalog for prerequisites)

PHYS 170\*DP /  170L\*DY

PHYS 272\*DP /  272L\*DY

PHYS 274\*DP /  274L\*DY

PHYS 310

PHYS 350

PHYS 400

PHYS 430

PHYS 450

PHYS 480 /  480L

**Two of the following:**  PHYS 305  PHYS 475  PHYS 481L

#### BA only (3 credits)

PHYS 440, 460, 481, or 490

### Notes

Colleges of Arts and Sciences Student Academic Services: QLCSS 113; (808) 956-8755

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

[http://www.advising.hawaii.edu/artsci/pages/resources/lib\\_art\\_degrees/majorskills/majorskills\\_phys.asp#PHYS\\_SCHED](http://www.advising.hawaii.edu/artsci/pages/resources/lib_art_degrees/majorskills/majorskills_phys.asp#PHYS_SCHED)