University of Hawai‘i at Mānoa
Colleges of Arts & Sciences Program Sheet 2012-2013
Bachelor of Science (BS) in Physics
Admissions: Open    Process: Declaration
Min. Total Credits: 120 (108 in core & major + 12 in electives)

Bachelor of Science Requirements
- MATH 215*FS or 241*FS
- MATH 216 or 242
- DB course
- CHEM 161*DP / 161L*DY
- CHEM 162*DP / 162L*DY
- PHYS 151*DP or 170*DP / 151L*DY or 170L*DY
- PHYS 152*DP or 272*DP / 152L*DY or 272L*DY

College Requirements
See degree requirements above.

Credit Maximums
- 8 KRS activity
- 9 Directed Reading / Research
- 12 Practicum / Internship

UHM General Education Core Requirements

### Foundations
- FW
- FS
- FG (A / B / C)
- FG (A / B / C)

### Diversification
- DA / DH / DL
- DB
- DP
- DY
- DS
- DS

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

UHM Graduation Requirements

### Focus
- H
- E (300+)
- O (300+)
- W
- W
- W (300+)
- W (300+)

### Hawaiian / Second Language
- 101
- 102
- 201
- 202

### Credit Minimums
- 120 total applicable
- 30 in residence at UHM
- 60 non-introductory

### Grade Point Average
- 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.
**Major Requirements for BS in Physics**

**Admission:** Open  
**Application:** NA  
**Min. major credits:** 47 (72 with related requirements)  
**Min. C grade (not C-) in all courses**

### Requirements

**Physics Related Requirements (25 credits)**
- CHEM 161*DP / CHEM 161L*DY
- CHEM 162*DP / CHEM 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 / PHYS 170L*DY
- PHYS 272*DP / PHYS 272L*DY
- PHYS 274*DP / PHYS 274L*DY
- PHYS 310
- PHYS 350
- PHYS 400
- PHYS 430
- PHYS 450
- PHYS 480 / PHYS 480L
  - **Two** of the following: PHYS 305, PHYS 475, PHYS 481L

**BS (9 credits)**
- PHYS 311
- PHYS 481
- PHYS 440, 460, 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  
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