



**University of Hawai'i at Mānoa**  
**Colleges of Arts & Sciences Program Sheet 2017-2018**  
**Bachelor of Science (BS) in Computer Science**  
**Admissions: Open Process: Declaration**  
**Min. Total Credits: 120 (108 in core & major + 12 in electives)**

UHM General Education Core Requirements
<b>Foundations</b>
<input type="checkbox"/> FW ENG 100, 100A, 190, ESL 100, or AMST 111
<input type="checkbox"/> FS MATH 215, 241, or 251A
<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
<input type="checkbox"/> DY CHEM 161L
<input type="checkbox"/> DS
<input type="checkbox"/> DS
* See degree, college and major requirements for courses that can also fulfill these.
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
• 45 upper division (300+ level) credits
<b>Grade Point Average</b>
• 2.0 cumulative or higher (Note: Other GPAs may be required.)
• Good academic standing

Degree Requirements
<b>Bachelor of Science Requirements</b>
<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
<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 BS in Computer Science

Admission: Open

Application: NA

Min. major credits: BS = 50

Min. B grade in ICS 111 and 211; min. C grade (not C-) in all other courses

### Requirements

#### Related Requirements (23-25 credits)

- MATH 215\*<sup>FS</sup> or 241\*<sup>FS</sup> or 251A\*<sup>FS</sup>
- MATH 216 or 242 or 252A
- CHEM 161\*<sup>DP</sup> /  161L\*<sup>DY</sup>
- CHEM 162\*<sup>DP</sup> /  162L\*<sup>DY</sup>
- PHYS 151\*<sup>DP</sup> or 170\*<sup>DP</sup> /  151L\*<sup>DY</sup> or 170L\*<sup>DY</sup>
- PHYS 152\*<sup>DP</sup> or 272\*<sup>DP</sup> /  152L\*<sup>DY</sup> or 272L\*<sup>DY</sup>

#### ICS Core Courses (31 credits)

- ICS 111 (minimum B grade or higher to advance)
- ICS 141\*<sup>FS</sup>
- ICS 211 (minimum B grade or higher to advance)
- ICS 212 or ICS 215
- ICS 241
- ICS 311
- ICS 312 or ICS 331
- ICS 313 or ICS 361
- ICS 321
- ICS 332

#### Additional Courses (19 credits)

- ICS 314
- ICS 400+
- ICS 400+
- ICS 400+
- ICS 400+
- ICS 400+

### Notes

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

Information and Computer Sciences Department: POST 317; (808) 956-7420; icsinfo@hawaii.edu; www.ics.hawaii.edu

ICS Undergraduate Advisor: Gerald Lau; POST 303A; (808) 956-5428; glau@hawaii.edu