



University of Hawai'i at Mānoa  
Colleges of Arts & Sciences Program Sheet 2017-2018  
**Bachelor of Science (BS) in Chemistry**  
Admissions: Open Process: Declaration  
Min. Total Credits: 120 (105 in core & major + 15 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 241, 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, 162, 272, 273
<input type="checkbox"/> DY CHEM 161L, 162L, 272L, 273L
<input type="checkbox"/> DS
<input type="checkbox"/> DS
<i>* See degree, college and major requirements for courses that can also fulfill these.</i>
<b>UHM Graduation Requirements</b>
<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 CHEM 352L
<input type="checkbox"/> W (300+) CHEM 425L
<input type="checkbox"/> W (300+) CHEM 445L
<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>
<ul style="list-style-type: none"><li>• 120 total applicable</li><li>• 30 in residence at UHM</li><li>• 35 major-required lower division/25 upper division (300+ level) credits</li></ul>
<b>Grade Point Average</b>
<ul style="list-style-type: none"><li>• 2.0 cumulative or higher (<i>Note: Other GPAs may be required.</i>)</li><li>• Good academic standing</li></ul>

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>
<b>College Requirements</b>
<b>Credit Maximums</b>
<ul style="list-style-type: none"><li>• 8 KRS activity</li><li>• 9 Directed Reading / Research</li><li>• 12 Practicum / Internship</li></ul>

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 Chemistry

Admission: Open

Application: NA

Min. major credits: 41 (57 with related requirements)

Min. C grade (not C-) in prerequisite CHEM courses. Minimum D grade for all other courses.

### Requirements

#### Chemistry Related Requirements (16 credits)

CHEM 161\*<sup>DP</sup> /  161L\*<sup>DY</sup>

CHEM 162\*<sup>DP</sup> /  162L\*<sup>DY</sup>

MATH 241\*<sup>FS</sup> or 251A\*<sup>FS</sup>

MATH 242 or 252A

#### Chemistry Core Courses (41 credits in CHEM courses numbered 200 and above)

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

CHEM 273\*<sup>DP</sup> /  273L\*<sup>DY</sup>

CHEM 274 /  274L (Spring only)

CHEM 351 (Fall only)

CHEM 352 /  352L (Spring only)

Biochemistry (CHEM 372<sup>DB</sup> or BIOC 441<sup>DB</sup> or BIOL/MBBE/PEPS 402<sup>DB</sup>)

CHEM 425 /  425L (Fall only)

CHEM 427 (Spring only)

CHEM 445 /  445L (Spring only)

MATH 243 or 253A (C, not C-, or higher to advance)

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

PHYS 272\*<sup>DP</sup> /  272L\*<sup>DY</sup> (C, not C-, or higher to advance)

Min. **3 credits** from: CHEM 399, 399L, 601, 602, 622, 641, 642, 643, 651, 652, 653, or 657 (CHEM 399 and 399L may be combined to provide 3 total credits)

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*Recommended non-major electives: MATH 244 and PHYS 274*

*Recommended language: German or French*

*Note: Please consult with your Chemistry advisor regarding minimum grade and GPA requirements and projected changes to course offerings.*

### Notes

Student Academic Success Center; Keller 213; (808) 956-5911; [cnsadvis@hawaii.edu](mailto:cnsadvis@hawaii.edu); [www.hawaii.edu/natsci/advising](http://www.hawaii.edu/natsci/advising)

Chemistry Department: Bilger 239; (808) 956-7480; [chemdept@hawaii.edu](mailto:chemdept@hawaii.edu); [manoa.hawaii.edu/chem](http://manoa.hawaii.edu/chem)

Registration Inquiries: [chemreg@hawaii.edu](mailto:chemreg@hawaii.edu)