Bachelor of Education (BEd) in Secondary Education  
Specialization: Chemistry
Admissions: Selective  Process: Application  
Min. Total Credits: 120 (111 in core & major + 9 in electives)

## UHM General Education Core Requirements

<table>
<thead>
<tr>
<th>Foundations</th>
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<tbody>
<tr>
<td>FW</td>
<td>ENG 100, 100A, 190, ESL 100, or AMST 111</td>
</tr>
<tr>
<td>FS</td>
<td>MATH 215 or 241</td>
</tr>
<tr>
<td>FG (A / B / C)</td>
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<tr>
<td>FG (A / B / C)</td>
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<table>
<thead>
<tr>
<th>Diversification</th>
<th></th>
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<tbody>
<tr>
<td>DH</td>
<td>HIST 394, 395, 436, 439; PHIL 308, or 316</td>
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<tr>
<td>DA / DL</td>
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<tr>
<td>DB</td>
<td>BIOL 171</td>
</tr>
<tr>
<td>DP</td>
<td>CHEM 161, PHYS 170</td>
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<tr>
<td>DY</td>
<td>CHEM 161L, BIOL 171L, PHYS 170L</td>
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<tr>
<td>DS</td>
<td>EDEF 310</td>
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<tr>
<td>DS</td>
<td>EDEP 311</td>
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* See degree, college and major requirements for courses that can also fulfill these.

## UHM Graduation Requirements

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<tr>
<th>Focus</th>
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<tbody>
<tr>
<td>H</td>
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<tr>
<td>E (300+)</td>
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<td>O (300+)</td>
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<td>W</td>
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<td>W (300+)</td>
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<td>W (300+)</td>
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<thead>
<tr>
<th>Hawaiian / Second Language</th>
<th></th>
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<tbody>
<tr>
<td>The Hawaiian or Second Language requirement is not required for students admitted to the College of Education.</td>
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<thead>
<tr>
<th>Credit Minimums</th>
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<tr>
<td>120 total applicable</td>
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<tr>
<td>30 in residence at UHM</td>
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<tr>
<td>45 upper division (300+ level) credits</td>
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<thead>
<tr>
<th>Grade Point Average</th>
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<tr>
<td>2.0 cumulative or higher (<em>Note: Other GPAs may be required</em>)</td>
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<tr>
<td>To graduate from COE, students must meet the college’s higher GPA requirement(s).</td>
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<tr>
<td>Good academic standing</td>
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## College Requirements

### Licensure Track Admission Requirements

- Fall and Spring admission.
- Submit an application no later than the following:
  - March 1 for fall semester  (Feb 1 priority deadline)
  - September 1 for spring semester  (Aug 1 priority deadline)
- 2.50 cumulative GPA in all post-secondary institutions
- 2.50 cumulative GPA in academic major
- 55 credits
- Completion of all UHM General Education Core and any additional Licensure Track Prerequisites.
- Applicants who have completed an articulated A.A. degree from a UH Community College are considered to have met the UHM General Education Core Requirements with possible exceptions (see an academic advisor).
- Official minimum state passing scores on the basic skills licensure test(s) as approved by the College of Education (COE) and aligned with the Hawaii Teacher Standards Board (HTSB) policy. Note that HTSB and COE requirements may differ. Please see a COE OSAS advisor for the latest information.
- 40 hours of documented current group leadership involvement with secondary-aged youth.
- Personal admissions interview.

### Licensure Track Prerequisites

| BIOL 171*DB | |
| CHEM 161*DP | |
| PHYS 170*DP | |
| MATH 215*FS | |

### Required Graduation Grade Point Averages

- 2.50 cumulative GPA or higher
- 2.50 GPA or higher in the major

*This program sheet was prepared to provide information and does not constitute a contract. Meet regularly with your department’s undergraduate advisor to ensure you are on track with your major requirements.*
## Major Requirements for BEd in Secondary Education

**Specialization:** Chemistry

**Admission to Licensure Track:** Complete all General Education and Licensure Track prerequisites.

**Application:** Deadline = March 1 for Fall entrance; September 1 for Spring entrance

**Min. major credits:** 75-76 (91 with related requirements)

**Min. C grade (not C-)** in Education courses

### Requirements

#### Chemistry Major Related Requirements (7 credits)

- **Related Courses**
  - MATH 242
  - MATH 243

#### Professional Education Core Courses (33 credits)

- **Required Courses**
  - EDEF 310\(^{DS}\)
  - EDEF 311\(^{DS}\)
  - ITE 401
  - ITE 402
  - ITE 404H
  - ITE 405H
  - ITE 406H
  - ITE 440
  - SPED 445
  - ITE 402 and 404H: concurrent registration required and courses are only offered in the Fall.
  - ITE 405H & 406H: concurrent registration required;
  - PRAXIS II Content Knowledge Test(s) must be passed with minimal State passing score(s) in subject area(s) in order to submit a Student Teaching Application.

### Chemistry Academic Major and Related Courses in Teaching Field (42-44 credits)

#### Chemistry Academic Major Science Core Courses (22-23 credits)

- **Chemistry Foundation**
  - BIOL 172 or BIOL 172L or higher

- **Earth Science Foundation**
  - 7 credits (must include one lab) of the following:
    - ASTR 110 or ASTR 210
    - ATMO 101/101L
    - GG 106
    - GEOG 426
    - OCN 201/201L
    - GG 101/101L or GG 103 or GG 104
    - GG 102
    - GG 130
    - GG 170

- **Physics Foundation**
  - PHYS 272

- **History/Philosophy of Science Foundation**
  - 3 credits from the following:
    - HIST 394* DH
    - HIST 395* DH
    - 436, 439
    - PHIL 308* DH
    - 316* DH
    - or PHIL/OCN 315* DH

#### Chemistry Teaching Field Core Courses (17 credits)

- **Organic Chemistry**
  - CHEM 272/272L
  - CHEM 273/273L

- **Analytical Chemistry**
  - CHEM 274/274L

- **Physical or Bio-organic Chemistry**
  - CHEM 351 or CHEM 372

#### Chemistry Academic Major Additional Courses (3-4 credits)

- **Computer Science**
  - ICS 101B or 101T or LTEC 442

### Optional Chemistry Academic Major Elective Courses:

- BIOL/MBBE 402/402L, BIOC 441/441L

### Notes

- College of Education, Office of Student Academic Services: Everly 126; (808) 956-7915; osas@hawaii.edu; coe.hawaii.edu
- Education Faculty Advisors: Denise Abara; Everly 126; (808) 956-5192; dabara@hawaii.edu
- Laurie Akana; Everly 126; (808) 956-6695; akanalk@hawaii.edu
- Reid Kuioka; Everly 126; (808) 956-5371; rkuioka@hawaii.edu
- Niki Libarios; Everly 126; (808) 956-4268; nlibario@hawaii.edu
- Denise Nakaoka; Everly 126; (808) 956-4274; nakaoka@hawaii.edu
- Karen Wilson; UH Ctr-Pālamanui; (808) 209-8031; (808) 984-3526; wilsonkl@hawaii.edu
- Puʻuhonua: Hale for Native Hawaiian Student Support, puuhonua@hawaii.edu
- Puahia: First Year & Transfer Student Support, puahia@hawaii.edu
- Tinalak: Filipino Student Support, tinalak@hawaii.edu

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