University of Hawai‘i at Mānoa
College of Education Program Sheet 2015-2016
Bachelor of Education (BEd) in Secondary Education
Specialization: Biology

Admissions: Selective  Process: Application
Min. Total Credits: 120 (109 in core & major + 11 in electives)

UHM General Education Core Requirements

<table>
<thead>
<tr>
<th>Foundations</th>
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<tbody>
<tr>
<td>❑ FW ENG 100, 100A, 190, or ESL 100</td>
<td></td>
</tr>
<tr>
<td>❑ FS MATH 215, 241, or NREM 203</td>
<td></td>
</tr>
<tr>
<td>❑ FG (A / B / C)</td>
<td></td>
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<tr>
<td>❑ FG (A / B / C)</td>
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<table>
<thead>
<tr>
<th>Diversification</th>
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<tbody>
<tr>
<td>❑ DH HIST 394, 394, PHIL 308, 316, or PHIL/OCN 315</td>
</tr>
<tr>
<td>❑ DA / DL</td>
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<tr>
<td>❑ DB BIOL 171</td>
</tr>
<tr>
<td>❑ DP CHEM 161, PHYS 151</td>
</tr>
<tr>
<td>❑ DY BIOL 171L, PHYS 151L, CHEM 161L</td>
</tr>
<tr>
<td>❑ DS EDEF 311</td>
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<td>❑ DS EDEF 310</td>
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* See degree, college and major requirements for courses that can also fulfill these.

UHM Graduation Requirements

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

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 involved with secondary-aged youth.
- Personal admissions interview.

Licensure Track Prerequisites

- BIOL 171*DBF / § 171L*DY
- CHEM 161*DBF / § 161L*DY
- PHYS 151*DBF / § 151L*DY
- MATH 215*FS, 241*FS, or NREM 203*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: Biology**

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: 80 (95 with related requirements)

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

### Requirements

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

**Required Courses**

- EDEF 310*<sup>OS</sup>
- EDEF 311*<sup>OS</sup>
- 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.

#### Biology Academic Major and Related Courses in Teaching Field (48-50 credits)

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

Completion of 50% of the coursework in the academic major is highly recommended prior to admission to the Licensure Track.

**Chemistry Foundation**

- CHEM 162 or 171 / CHEM 162L or 171L

**Earth Science Foundation**

7 credits (must include one lab) of the following:

- ASTR 110 or ASTR 240
- GG 101/101L or GG 103 or GG 104
- GG 102
- GG 105
- GG 130
- GG 170
- GEOG 426
- MET 101/101L
- OCN 201/201L
- OEST 101

**Physics Foundation**

- PHYS 152 / PHYS 152L

**History/Philosophy of Science Foundation**

3 credits from the following:

- HIST 394<sup>*DH</sup>, 395<sup>*DH</sup>, 436, 439; PHIL 308<sup>*DH</sup>, 316<sup>*DH</sup>, or PHIL/OCN 315<sup>*DH</sup>

**Biology Teaching Field Core Courses (18 credits)**

**Organic Chemistry**

- CHEM 272 / CHEM 272L

**General Ecology**

- BIOL 265 / BIOL 265L

**Cellular/Molecular Biology**

- BIOL 275 / BIOL 275L

**Genetics**

- BIOL 375 / BIOL 375L

**Biology Academic Major Additional Courses (5 credits)**

**Biology Elective Courses**

5 credits of approved biology elective courses:

- BIOL 406/406L
- BIOL 407
- BIOL 490
- BOT 453
- BOT/ZOOL 450
- BOT 470/470L
- FSHN 185
- MICR 431/431L
- MICR 475/475L
- MICR 485/485L
- ZOOL 430/430L
- ZOOL 439/439L

**Computer Science Requirement (3-4 credits)**

**Computer Science Courses**

- ICS 101B or 101T or LTEC 442

Dual Preparation in Hawaiian Language Immersion is available. Contact puuhonua@hawaii.edu for more information.

### 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
- Tom Benjamin; Lauilma 217 at UH Ctr-Maui CC; (808) 984-3526; tbenjamin@hawaii.edu
- Pohai Kukea Shultz; Everly 126; (808) 956-2526; pohai@hawaii.edu
- Niki Libarios; Everly 126; (808) 956-4268; nlibario@hawaii.edu
- Denise Nakaoka; Everly 126; (808) 956-4274; nakaoka@hawaii.edu
- Karen Wilson; B3 at UH Ctr-West Hawai’i; (808) 322-1549; wilsonkl@hawaii.edu
- Melvin Spencer; Everly 126; (808) 956-4269; melvins@hawaii.edu

Pu’uhonua: 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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