



**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
<b>Foundations</b>
<input type="checkbox"/> FW ENG 100, 100A, 190, or ESL 100
<input type="checkbox"/> FS MATH 215, 241, or NREM 203
<input type="checkbox"/> FG (A / B / C)
<input type="checkbox"/> FG (A / B / C)
<b>Diversification</b>
<input type="checkbox"/> DH HIST 394, 394, PHIL 308, 316, or PHIL/OCN 315
<input type="checkbox"/> DA / DL
<input type="checkbox"/> DB BIOL 171
<input type="checkbox"/> DP CHEM 161, PHYS 151
<input type="checkbox"/> DY BIOL 171L, PHYS 151L, CHEM 161L
<input type="checkbox"/> DS EDEP 311
<input type="checkbox"/> DS EDEF 310
<i>* See degree, college and major requirements for courses that can also fulfill these.</i>
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>
<ul style="list-style-type: none"> <li>The Hawaiian or Second Language requirement is <b>not</b> required for students admitted to the College of Education.</li> </ul>
<b>Credit Minimums</b>
<ul style="list-style-type: none"> <li>120 total applicable</li> <li>30 in residence at UHM</li> <li>45 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>To graduate from COE, students must meet the college's higher GPA requirement(s).</li> <li>Good academic standing</li> </ul>

College Requirements
<b>Licensure Track Admission Requirements</b>
<ul style="list-style-type: none"> <li>Fall and Spring admission.</li> <li>Submit an application no later than the following:               <ul style="list-style-type: none"> <li><b>March 1</b> for fall semester (Feb 1 priority deadline)</li> <li><b>September 1</b> for spring semester (Aug 1 priority deadline)</li> </ul> </li> <li>2.50 cumulative GPA in all post-secondary institutions</li> <li>2.50 cumulative GPA in academic major</li> <li>55 credits</li> <li>Completion of all UHM General Education Core and any additional Licensure Track Prerequisites.</li> <li>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).</li> <li>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.</li> <li>40 hours of documented current group leadership involved with secondary-aged youth.</li> <li>Personal admissions interview.</li> </ul>
<b>Licensure Track Prerequisites</b>
<input type="checkbox"/> BIOL 171* <sup>DB</sup> / <input type="checkbox"/> 171L* <sup>DY</sup>
<input type="checkbox"/> CHEM 161* <sup>DP</sup> / <input type="checkbox"/> 161L* <sup>DY</sup>
<input type="checkbox"/> PHYS 151* <sup>DP</sup> / <input type="checkbox"/> 151L* <sup>DY</sup>
<input type="checkbox"/> MATH 215* <sup>FS</sup> , 241* <sup>FS</sup> , or NREM 203* <sup>FS</sup>
<b>Required Graduation Grade Point Averages</b>
<ul style="list-style-type: none"> <li>2.50 cumulative GPA or higher</li> <li>2.50 GPA or higher in the major</li> </ul>

*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)**

<b>Required Courses</b>	<input type="checkbox"/> EDEF 310* <sup>DS</sup>	<input type="checkbox"/> EDEP 311* <sup>DS</sup>	<input type="checkbox"/> ITE 401	<input type="checkbox"/> ITE 402
	<input type="checkbox"/> ITE 404H	<input type="checkbox"/> ITE 405H	<input type="checkbox"/> ITE 406H	<input type="checkbox"/> ITE 440
	<input type="checkbox"/> 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.*

<b>Biology Foundation</b>	<input type="checkbox"/> BIOL 172 / <input type="checkbox"/> 172L or higher
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<b>Chemistry Foundation</b>	<input type="checkbox"/> CHEM 162 or 171 / CHEM <input type="checkbox"/> 162L or 171L
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<b>Earth Science Foundation</b>	<b>7 credits</b> (must include one lab) of the following:			
	<input type="checkbox"/> ASTR 110 or ASTR 240	<input type="checkbox"/> GG 101/101L or GG 103 or GG 104		
	<input type="checkbox"/> GG 102	<input type="checkbox"/> GG 105	<input type="checkbox"/> GG 106	<input type="checkbox"/> GG 130
	<input type="checkbox"/> GG 170	<input type="checkbox"/> GEOG 426	<input type="checkbox"/> MET 101/101L	
	<input type="checkbox"/> OCN 201/201L	<input type="checkbox"/> OEST 101		

<b>Physics Foundation</b>	<input type="checkbox"/> PHYS 152 / <input type="checkbox"/> 152L
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<b>History/Philosophy of Science Foundation</b>	<b>3 credits</b> from the following: <input type="checkbox"/> _____ 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>
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**Biology Teaching Field Core Courses (18 credits)**

<b>Organic Chemistry</b>	<input type="checkbox"/> CHEM 272 / <input type="checkbox"/> 272L
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<b>General Ecology</b>	<input type="checkbox"/> BIOL 265 / <input type="checkbox"/> 265L
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<b>Cellular/Molecular Biology</b>	<input type="checkbox"/> BIOL 275 / <input type="checkbox"/> 275L
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<b>Genetics</b>	<input type="checkbox"/> BIOL 375 / <input type="checkbox"/> 375L
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**Biology Academic Major Additional Courses (5 credits)**

<b>Biology Elective Courses</b>	<b>5 credits</b> of approved biology elective courses:			
	<input type="checkbox"/> BIOL 406/406L	<input type="checkbox"/> BIOL 407	<input type="checkbox"/> BIOL 490	<input type="checkbox"/> BOT 453
	<input type="checkbox"/> BOT/ZOOL 450	<input type="checkbox"/> BOT 470/470L	<input type="checkbox"/> FSHN 185	<input type="checkbox"/> OCN 331
	<input type="checkbox"/> MICR 431/431L	<input type="checkbox"/> MICR 475/475L	<input type="checkbox"/> MICR 485/485L	
	<input type="checkbox"/> ZOOL 430/430L	<input type="checkbox"/> ZOOL 439/439L		

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

<b>Computer Science Courses</b>	<input type="checkbox"/> ICS 101B or 101T or <input type="checkbox"/> LTEC 442
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*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; Laulima 217 at UH Ctr-Maui CC; (808) 984-3526; tbenjami@hawaii.edu  
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 Karen Wilson; B3 at UH Ctr-West Hawai'i; (808) 322-1549; wilsonkl@hawaii.edu  
 Director: Melvin Spencer; Everly 126; (808) 956-4269; melvins@hawaii.edu

Pu'uhoonua: Hale for Native Hawaiian Student Support, puuhonua@hawaii.edu

Puahia: First Year &amp; Transfer Student Support, puahia@hawaii.edu

Tinalak: Filipino Student Support, tinalak@hawaii.edu