# University of Hawai‘i at Mānoa
## College of Education Program Sheet 2011-2012
### Bachelor of Education (BEd) in Secondary Education
#### Specialization: Physics

**Admissions: Selective  Process: Application**

**Min. Total Credits: 124 (112 in core & major + 12 in electives)**

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## UHM General Education Core Requirements

### Foundations
- FW
- FS
- FG (A / B / C)
- FG (A / B / C)

### Diversification
- DA / DH / DL
- DB
- DP
- DY
- DS
- DS

*See degree, college and major requirements for courses that can also fulfill these.*

## UHM Graduation Requirements

### Focus
- H
- E (300+)
- O (300+)
- W
- W
- W
- W (300+)
- W (300+)

### Hawaiian / Second Language
- The Hawaiian or Second Language requirement is not required for students admitted to the College of Education.

### Credit Minimums
- 124 total applicable
- 30 in residence at UHM

### Grade Point Average
- 2.0 cumulative or higher *(Note: Other GPAs may be required)*
- To graduate from COE, students must meet the college’s higher GPA requirement.
- Good academic standing

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## College Requirements

### 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 Pre-Admissions Requirements.
- 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).
- PRAXIS I (PPST/C-PPST): Minimal state passing scores in reading, writing, and mathematics subtests.
- 40 hours of documented current group leadership involvement with secondary-aged youth.
- Personal admissions interview.

### Pre-Admissions Requirements (16 credits)
- BIOL 171*DB / BIOL 171L*DY
- CHEM 161*DP / 161L*DY
- PHYS 170*DP / 170L*DY
- MATH 241*FS

### Required Graduation Grade Point Averages
- 2.50 cumulative GPA or higher
- 2.50 GPA or higher in the major

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*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: Physics

### Admission:
Complete all General Education., Pre-Admission & Admission requirements listed on the front.

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

Min. major credits: 81 (96 with related requirements)

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

### Requirements

#### Physics Academic Major Related Requirements (10 credits)

<table>
<thead>
<tr>
<th>Related Courses</th>
<th>MATH 242</th>
<th>MATH 243</th>
<th>MATH 243</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>EDEF 310*DS</th>
<th>EDEP 311*DS</th>
<th>ITE 401</th>
<th>ITE 402</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ITE 404H</td>
<td>ITE 405H</td>
<td>ITE 406H</td>
<td>ITE 440</td>
</tr>
<tr>
<td></td>
<td>SPED 445</td>
<td></td>
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</tr>
</tbody>
</table>

**In the first semester in the College of Education, students must take ITE 401. ITE 402 & 404H: concurrent registration required and courses are only offered in the Fall. ITE 405H & 406H: concurrent registration required; students must attempt the PRAXIS Subject Assessment Content Knowledge Test(s) and submit official documentation of their scores on or before the end of their Student Teaching Residency (Student Teaching) semester.**

#### Physics Academic Major and Related Courses in Teaching Field (38 credits)

**Completion of 50% of the coursework in the academic major is highly recommended prior to admissions to the College.**

<table>
<thead>
<tr>
<th>Biology Foundation</th>
<th>BIO 172/ BIO 172L or higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry Foundation</td>
<td>CHEM 162 or 171/ CHEM 162L or 171L</td>
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</table>

<table>
<thead>
<tr>
<th>Earth Science Foundation</th>
<th>7 credits</th>
<th>(must include one lab) of the following:</th>
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<tbody>
<tr>
<td></td>
<td>ASTR 110 or ASTR 240</td>
<td>GG 101/101L or GG 103 or GG 104</td>
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<tr>
<td></td>
<td>GG 102</td>
<td>GG 105</td>
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<tr>
<td></td>
<td>GG 170</td>
<td>GEOG 326</td>
</tr>
<tr>
<td></td>
<td>OCN 201/201L</td>
<td>OEST 101</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physics Foundation</th>
<th>PHYS 272/ PHYS 272L</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>History/Philosophy of Science Foundation</th>
<th>3 credits</th>
<th>from the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HIST 394<em>DH, 395</em>DH, 436, 439; PHIL 308<em>DH, 316</em>DH; or PHIL/OCN 315*DH</td>
<td></td>
</tr>
</tbody>
</table>

#### Physics Teaching Field Core Courses (16 credits)

<table>
<thead>
<tr>
<th>Modern Physics</th>
<th>PHYS 274/ PHYS 274L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanics</td>
<td>PHYS 310 or CEE 270</td>
</tr>
<tr>
<td>Electricity and Magnetism</td>
<td>PHYS 350</td>
</tr>
</tbody>
</table>

**Elective Courses**

- List of approved courses (6 credits minimum):
  - PHYS 311
  - PHYS 399
  - PHYS 430
  - CEE 271
  - CEE 320/320L
  - ME 311
  - ME 312
  - EDCS 450
  - EDCS 433

<table>
<thead>
<tr>
<th>Computer Science</th>
<th>ICS 101/ ICS 101L or ETEC 442</th>
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**Notes**

College of Education, Office of Student Academic Services: Everly 126; (808) 956-7915; osas@hawaii.edu; coe.hawaii.edu

Education Undergraduate Advisors:
- Melvin Spencer; Everly 126; (808) 956-4269; melvins@hawaii.edu
- Denise Nakaoka; Everly 126; (808) 956-4274; nakaoka@hawaii.edu
- Niki Libarios; Everly 126; (808) 956-4268; nlibario@hawaii.edu
- Karen Wilson; B3 at UH Ctr-West Hawai’i; (808) 322-1549; wilsonkl@hawaii.edu
- Tom Benjamin; Laulima 217 at UH Ctr-Maui CC; (808) 984-3526; tbenjami@hawaii.edu