STATE OF ALABAMA DEPARTMENT OF EDUCATION
TEACHER EDUCATION AND CERTIFICATION

(Required certification sequence for UABTeach Program for Biology Majors)

**Program:** BIOLOGY or GENERAL SCIENCE (6-12)

*This certification requires a minimum of 120-hours for degree including 21 hours of UAB Teach courses.

**CLASS B EDUCATION PROGRAM CHECKLIST**

| Institution: UNIVERSITY OF ALABAMA AT BIRMINGHAM |
|-----------|--------------------------------------------------|
| Date Approved: 06/09/2022 | Date Expires: 06/09/2028 |

<table>
<thead>
<tr>
<th><strong>General Studies</strong></th>
<th><strong>Professional Studies</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Shall include courses and/or experiences in the humanities, social studies, mathematics, and science.</td>
<td>These courses must be taken prior to admission to TEP.</td>
</tr>
<tr>
<td>Humanities:</td>
<td>EHS 125 Step 1: Inquiry Approaches to Teaching 1</td>
</tr>
<tr>
<td>EH 101 English Composition I 3</td>
<td>EHS 126 Step 2: Inquiry Approaches to Teaching 1</td>
</tr>
<tr>
<td>EH 102 English Composition II 3</td>
<td>EHS 325 Knowing and Learning in Science and Mathematics 3</td>
</tr>
<tr>
<td>Literature (See AGSC List) 3-6</td>
<td>EHS 326 Classroom Interactions 3</td>
</tr>
<tr>
<td>Humanities/Fine Arts (See AGSC List) 3-6</td>
<td></td>
</tr>
<tr>
<td>Fine Arts (See AGSC List) 3</td>
<td>These courses require admission to TEP before they can be taken.</td>
</tr>
<tr>
<td>Social Science:</td>
<td>EHS 327 Problem-Based Instruction 3</td>
</tr>
<tr>
<td>History 3-6</td>
<td>Internship:</td>
</tr>
<tr>
<td>Non-History Social Science 3-9</td>
<td>Students must take EHS 425 and EHS 426 in the same term.</td>
</tr>
<tr>
<td>Science:</td>
<td>EHS 425 Apprentice Teaching 6</td>
</tr>
<tr>
<td>Natural Sciences (lab required with each course) (See Core Curriculum List) 8</td>
<td>EHS 426 Apprentice Teaching Seminar 1</td>
</tr>
<tr>
<td>Mathematics:</td>
<td></td>
</tr>
<tr>
<td>MA 106 Pre-Calculus Algebra or above 3</td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td></td>
</tr>
<tr>
<td>PHL 270 OR HY 275 3</td>
<td></td>
</tr>
</tbody>
</table>

To be eligible for Class B certification in biology or general science, candidates will need to complete all courses on this checklist*, meet Teacher Education Program requirements for biology or general science, AND complete ALL degree requirements for Biology.

*For candidates pursuing general science certification, completion of courses in biology, chemistry, Earth and space sciences, and physics is required.

Prospective and admitted students should NOT begin any coursework without seeking advisement from the UABTeach Advisor/Academic Coach each term. Students who ignore this admonition assume responsibility for their own mistakes.

<table>
<thead>
<tr>
<th><strong>Teaching Field</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Must include at least 30 semester hours in the teaching field with a minimum of 18 hours at the upper division level. (List all courses required for the teaching field.)</td>
</tr>
<tr>
<td>See attached requirements on page 2.</td>
</tr>
</tbody>
</table>

Dean of Education: **Michelle Robinson**

Date: 10/13/2022
### Class B Biology (6-12) Program Checklist: 30/18 Teaching Field Analysis

#### Lower Division Courses
- BY 123 Introductory Biology I w/ Lab BY 124  
  Introductory Biology II w/ Lab  BY 210  
  Genetics  

#### Organismal (One Course)
- BY 255 Invertebrate Zoology (4 Hours)  
- BY 256 Vertebrate Zoology (4 Hours)  
- BY 271 Biology Microorganisms & Lab (4 Hours)  
  **15 Hours**

#### Upper Division Courses
- **3-4 Hours**
- **3-4 Hours**
  - BY 311 Molecular Genetics (3 Hours)  
  - BY 330 Cell Biology

- **3-4 Hours**
- **3-4 Hours**
  - BY 314 Embryology (3 Hours)  
  - BY 409 Principles of Human Physiology & Lab (4 Hours) BY 410 
  - Comparative Animal Physiology (3 Hours)  
  - BY 450 Plant Physiology (4 Hours)

- **3-4 Hours**
- **3-4 Hours**
  - BY 429 Intro to Evolutionary Process (3 Hours)  
  - BY 435 Natural History of Vertebrates & Lab (4 Hours) BY 470 
  - Ecology (3 Hours)

#### Other
- Biology Research Methods OR Biology Capstone  
  **3**

At least seven (7) hours of approved Biology Electives at the 300 or 400 level  
  **7**

**19-21 Hours**

---

*FOR GENERAL SCIENCE CERTIFICATION (if not included on major checklist)*

- **One Course and Lab Sequence from the Following:**
  - BY 123 Introductory Biology I and Lab  
  - BY 124 Introductory Biology II and Lab

- **One Course and Lab Sequence from the Following:**
  - CH 115/118 General Chemistry I and Lab  
  - CH 117/118 General Chemistry II and Lab

- **One Course and Lab Sequence from the Following:**
  - PH 224 College Physics and Lab  
  - PH 221 General Physics I and Lab  
  - PH 222 General Physics II and Lab

- **One Course and Lab Sequence from the Following:**
  - ABT 101/111 Astronomy of the Universe and Lab  
  - ABT 102/112 Astronomy of Stellar Systems and Lab  
  - ES 101/102 Physical Geology and Lab  
  - ES 103/104 History of the Earth and Lab