



**(Required certification sequence for UABTeach Program for Biology Majors)**

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

Total Hours: **\***

*\*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: 02/09/2022  
Date Expires: 06/30/2028  
Revisions: \_\_\_\_\_

**General Studies**

Shall include courses and/or experiences in the humanities, social studies, mathematics, and science.

**Humanities:**

|                                      |     |
|--------------------------------------|-----|
| EH 101 English Composition I         | 3   |
| EH 102 English Composition II        | 3   |
| Literature (See AGSC List)           | 3-6 |
| Humanities/Fine Arts (See AGSC List) | 3-6 |
| Fine Arts (See AGSC List)            | 3   |

**Social Science:**

|                            |     |
|----------------------------|-----|
| History                    | 3-6 |
| Non-History Social Science | 3-9 |

**Science:**

|  |   |
|--|---|
| Natural Sciences (lab required with each course)<br>(See Core Curriculum List) | 8 |
|--|---|

**Mathematics:**

|                                      |   |
|--------------------------------------|---|
| MA 106 Pre-Calculus Algebra or above | 3 |
|--------------------------------------|---|

**Other:**

|                   |   |
|-------------------|---|
| PHL 270 OR HY 275 | 3 |
|-------------------|---|

**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.**

**Professional Studies**

**These courses must be taken prior to admission to TEP.**

|   |   |
|---|---|
| EHS 125 Step 1: Inquiry Approaches to Teaching          | 1 |
| EHS 126 Step 2: Inquiry Approaches to Teaching          | 1 |
| EHS 325 Knowing and Learning in Science and Mathematics | 3 |
| EHS 326 Classroom Interactions                          | 3 |

**These courses require admission to TEP before they can be taken.**

|                                   |   |
|-----------------------------------|---|
| EHS 327 Problem-Based Instruction | 3 |
|-----------------------------------|---|

**Internship:**

**Students must take EHS 425 and EHS 426 in the same term.**

|                                     |   |
|-------------------------------------|---|
| EHS 425 Apprentice Teaching         | 6 |
| EHS 426 Apprentice Teaching Seminar | 1 |

**Teaching Field**

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.)

**See attached requirements on page 2.**

Dean of Education: Michelle Robinson

Date: 10/13/2022



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**Class B Biology (6-12) Program Checklist: 30/18 Teaching Field Analysis**

**Lower Division Courses**

|   |   |
|---|---|
| BY 123 Introductory Biology I w/ Lab BY 124 | 4 |
| Introductory Biology II w/ Lab BY 210       |   |
| Genetics                                    | 4 |
|   | 3 |

**Organismal (One Course)**

|   |                 |
|---|-----------------|
| BY 255 Invertebrate Zoology (4 Hours)         | 4               |
| BY 256 Vertebrate Zoology (4 Hours)           |                 |
| BY 271 Biology Microorganisms & Lab (4 Hours) | <u>15 Hours</u> |

**Upper Division Courses**

|   |   |
|---|---|
| <b><u>Cellular/Molecular (One Course)</u></b> | 3 |
| BY 311 Molecular Genetics (3 Hours)           |   |
| BY 330 Cell Biology                           |   |

|  |     |
|--|-----|
| <b><u>Physiology/Development (One Course)</u></b>            | 3-4 |
| 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)                            |     |

|  |     |
|--|-----|
| <b><u>Ecology/Evolution (One Course)</u></b>                 | 3-4 |
| BY 429 Intro to Evolutionary Process (3 Hours)               |     |
| BY 435 Natural History of Vertebrates & Lab (4 Hours) BY 470 |     |
| Ecology (3 Hours)  |     |

|  |   |
|--|---|
| <b><u>Other</u></b>                          | 3 |
| Biology Research Methods OR Biology Capstone |   |

|  |                    |
|--|--------------------|
| At least seven (7) hours of approved Biology Electives at the 300 or 400 level | 7                  |
|  | <u>19-21 Hours</u> |

**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 115/116 General Chemistry I and Lab  
CH 117/118 General Chemistry II and Lab

**One Course and Lab Sequence from the Following:**

PH 202 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:**

AST 101/111 Astronomy of the Universe and Lab  
AST 102/112 Astronomy of Stellar Systems and Lab  
ES 101/102 Physical Geology and Lab  
ES 103/104 History of the Earth and Lab