**STATE OF ALABAMA DEPARTMENT OF EDUCATION**
**TEACHER EDUCATION AND CERTIFICATION**

**Required Certification Sequence for UABTeach Candidates Majoring in Biology**

**Program:** BIOLOGY

**Total Hours:** *

---

**This certification requires a minimum of 120-hours for a degree in biology including 18 hours of UABTeach courses.**

**CLASS B EDUCATION PROGRAM CHECKLIST**

**Institution:** UNIVERSITY OF ALABAMA AT BIRMINGHAM

**Date Approved:** 11/8/2014

**Date Expires:** 5/31/2021

**Revisions:**

---

### General Studies

- Shall include courses and/or experiences in written composition, humanities, social studies, mathematics, and science.

  - **EH 101 English Composition I**
    - Total Hours: 3
  - **EH 102 English Composition II**
    - Total Hours: 3

### Humanities:

- **Literature (See CAS Core Curriculum list)**
  - Total Hours: 3-6
- **Fine Arts (See CAS Core Curriculum list)**
  - Total Hours: 3
- **Humanities/Fine Arts (See CAS Core Curriculum list)**
  - Total Hours: 3-6

### Social Science:

- **History (see CAS Core Curriculum List)**
  - Total Hours: 3-6
- **Non-History Social Science (See CAS Core Curriculum list)**
  - Total Hours: 6-9

### Science:

- **Natural Sciences (lab required with each course)**
  - **CH 235/CH 236 Organic Chemistry I with Lab**
    - Total Hours: 4
  - **CH 237/238 Organic Chemistry II with Lab**
    - Total Hours: 4
  - **PH 201 College Physics I with Lab**
    - Total Hours: 4
  - **PH 202 College Physics II with Lab**
    - Total Hours: 4

### Mathematics:

- **MA 125 Calculus I**
  - Total Hours: 4

### Other:

- **CH 115/116 General Chemistry I & Lab**
  - Total Hours: 4
- **CH 117/118 General Chemistry II & Lab**
  - Total Hours: 4
- **PHL 275 or HY 275 Perspectives on Science and Mathematics**
  - Total Hours: 3

---

**Special Notes**

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

Prospective and admitted students should NOT begin any coursework without seeking advisement from the Office of Student Services (call: 205-934-7530) 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-Based Lesson Design 1
- EHS 325 Knowing and Learning in Science and Mathematics 3

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

- EHS 326 Classroom Interactions 3
- EHS 327 Project-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 an academic major of at least 32 semester hours with a minimum of 19 hours in the upper division. (List all courses required for the teaching field.)

See Attached Requirements

---

**Dean of Education:** [Signature]

**Date:** 7/15/15
Class B Biology Program Checklist: 32/19 Teaching Field Analysis

NOTE: Biology Majors must complete 40 hours in Biology (BY) courses approved for the major including BY 123 (Introductory Biology I w/ Lab; 4 hours), and BY 124 (Introductory Biology II w/ Lab; 4 hours) BY 210 (Genetics, 3 hours) and the courses taken to satisfy the requirements listed below. At least 19 hours must be at the 300- or 400-level.

BY 210 Genetics 3

Organismal (One Course)
BY 255 Invertebrate Zoology (4 Hours) 4
BY 256 Vertebrate Zoology (4 Hours)
BY 260 Botany 4 (4 Hours)
BY 271 Biology Microorganisms & Lab (4 hours)
BY 442 Experimental Phycology (4 hours)

Cellular/Molecular (One Course)
BY 311 Molecular Genetics (3 hours) 3
BY 330 Cell Biology

Physiology/Development (One Course)
BY 314 Embryology (3 hours) 3-4
BY 405 Microbial Physiology (3 hours)
BY 409 Principles of Human Physiology & Lab (4 hours)
BY 410 Comparative Animal Physiology (3 hours)
BY 450 Plant Physiology (4 hours)

Ecology/Evolution (One Course)
BY 407 Microbial Ecology (3 hours) 3-4
BY 429 Intro to Evolutionary Process (3 hours)
BY 435 Natural History of Vertebrates & Lab (4 hours)
BY 470 Ecology (3 hours)

Other
BY 492 Research Methods 4
Completion of Biology Capstone Experience

Biology Electives as Approved by Advisor 16