



Program: **BIOLOGY or
GENERAL SCIENCE**

11/4/19

Total Hours: *

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

CLASS B EDUCATION PROGRAM CHECKLIST

Institution: UNIVERSITY OF ALABAMA AT BIRMINGHAM

Date Approved: 7/8/2014

Date Expires: 5/31/2021

Revisions:

6/22/2017 6/17/2018 2/13/2020

General Studies

*Refer to the UAB Catalog for Core Curriculum requirements

EH 101 English Composition I 3
EH 102 English Composition II 3

Humanities: (12 Hours)

Literature 3-6
Humanities 3-6
Fine Arts 3

Mathematics: (3 Hours)

MA 106 Pre-Calculus Algebra or above 3

Science: (8 Hours)

BY 123 Introductory Biology I and Lab 4
BY 124 Introductory Biology II and Lab 4

Social Science: (12 Hours)

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

Other: (3 Hours)

PHL 270 Science, Knowledge, and Reality
OR
HY 275 Perspectives on Science and Mathematics 3

Special Notes

To be eligible for Class B certification in Biology, candidates will need to complete all courses on this checklist, met Teacher Education Program requirements for certification, 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 Academic Coach each term (drparker@uab.edu). 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 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: Scott Noyce

Date: 11/19/19



Class B Biology Program Checklist: 32/19 Teaching Field Analysis

Lower Division Courses

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

11 Hours

Upper Division Courses

BY 330 Cell Biology	3
---------------------	---

Genetics and Genomic Sciences Courses

GGSC 310 Genome Structure and Organization (3 hours)	3
GGSC 320 Colloquium in Genetics and Genomics Science (4 hours*)	4
GGSC 410 Genetic Basis of Human Disease (3 hours)	3
GGSC 420 Applications of Bioinformatics (3 hours)	3

Genetic and Genomic Sciences/Biology Electives (select 2)

GGSC 490 Model Systems for Genetics Disorders (3 hours)	3
GGSC 491 Personalized Genomic Medicine (3 hours)	3
BY 429 Evolution (3 hours)	3
BY 431 Principles of DNA Technology (3 hours)	3
BY 434 Functional Genomics and Systems Biology (3 hours)	3
BY 437 Epigenetics (3 hours)	3
BY 475 Comparative Developmental Biology (3 hours)	3

Other

Genetic and Genomic Sciences Research Methods	3
---	---

OR

Genetic and Genomic Sciences Capstone

25 Hours

*1 hour sections taken for 4 total semesters