



(Required certification sequence for UABTeach Program for Mathematics Majors)

Program: MATHEMATICS (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: 06/09/2022
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) (See Core Curriculum List)	8
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Mathematics:

MA 125 Calculus I	4
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Other:

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

To be eligible for Class B certification in mathematics, candidates will need to complete all courses on this checklist, meet Teacher Education Program requirements for Mathematics, AND complete ALL degree requirements for Computer Information Sciences.

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
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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



STATE OF ALABAMA DEPARTMENT OF EDUCATION
TEACHER EDUCATION AND CERTIFICATION

(Required certification sequence for UABTeach Program for Mathematics Majors)

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

Lower Division

MA 125 Calculus I	4
MA 126 Calculus II	4
MA 227 Calculus III	4
MA 252 Differential Equations	3

15 Hours

Upper Division

12 hours from the courses below

MA 361 Mathematical Modeling	3
MA 444 Vector Analysis	3
MA 472 Geometry I	3
MA 435 Algebra II: Modern	3
MA 445 Complex Analysis	3
MA 454 Intermediate Differential Equations	3
MA 455 Partial Differential Equations I	3
MA 461 Mobile with Partial Differential Equations	3
MA 462 Intro to Stochastic Differential Equations	3
MA 466 Introduction to Optimization	3
MA 467 Gas Dynamics	3
MA 468 Numerical Analysis	3
MA 484 Mathematics Finance	3
MA 485 Probability	3
MA 486 Mathematical Statistics	3
MA 497 Research Methods in Mathematics	3
MA 587 Advanced Probability	3

At least seven (7) hours of additional courses at the 300 and 400 level
satisfying the requirements of the Traditional Track of the Applied Track in the
Mathematics major. Courses selected must have the MA prefix.

19 Hours

Not both MA 260 and MA 434 can be counted in major.