



(Required Certification Sequence for UABTeach Program for Mathematics Majors)

Program: **MATHEMATICS**

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: (4 Hours)

MA 125 Calculus I 4

Science: (8 Hours)

Natural Sciences (lab required with each course)
(See Core Curriculum List) 8

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 mathematics, candidates will need to complete all courses on this checklist, met Teacher Education Program requirements for certification, AND complete all degree requirements for Mathematics.

Prospective and admitted students should NOT begin any coursework without seeking advisement from the UABTeach Academic Coach (drparker@uab.edu) 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 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 Saye

Date: 11/19/19



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Class B Mathematics Education Program Checklist – Teaching Field Courses

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 472 Geometry I	3
MA 435 Algebra II: Modern	3
MA 444 Vector Analysis	3
MA 445 Complex Analysis	3
MA 454 Intermediate Differential Equations	3
MA 455 Partial Differential Equations I	3
MA 461 Modeling 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 Mathematical 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 or the Applied Track in the Mathematics Major. Courses selected must have the MA course prefix.

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

19 Hours