



**(Required Certification Sequence for UABTeach Program for Computer Information Sciences 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:

4/22/2017 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 Snyder

Date: 11/14/19



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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
CS 250 Discrete Structures	3
CS 203 Object-Oriented Programming	4

**15 Hours**

Upper Division

CS 303 Algorithms and Data Structures	4
CS 355 Probability and Statistics in Computer Sciences	3
MA 360 Scientific Programming	
<b>OR</b>	
CS 380 Scientific Computing	3
MA 434 Algebra I: Linear	3

At least three (3) hours of additional courses from the following: 3-4

- CS 350 Automata and Formal Languages
- MA 440 Advanced Calculus I
- MA 444 Vector Analysis
- MA 445 Complex Analysis
- MA 463 Operations Research I
- MA 470 Differential Geometry I
- MA 472 Geometry I
- MA 485 Probability

**19-20 Hours**