



(Required certification sequence for UABTeach Program for Electrical Engineering 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:**

<u>EH 101 English Composition I</u>	<u>3</u>
<u>EH 102 English Composition II</u>	<u>3</u>
<u>Literature (See AGSC List)</u>	<u>3-6</u>
<u>Humanities/Fine Arts (See AGSC List)</u>	<u>3-6</u>
<u>Fine Arts (See AGSC List)</u>	<u>3</u>

**Social Science:**

<u>History</u>	<u>3-6</u>
<u>Non-History Social Science</u>	<u>3-9</u>

**Science:**

<u>BY 123 Introductory Biology I and Lab</u>	<u>4</u>
<u>BY 124 Introductory Biology II and Lab</u>	<u>4</u>

**Mathematics:**

<u>MA 106 Pre-Calculus Algebra or above</u>	<u>3</u>
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**Other:**

<u>PHL 270 Science, Knowledge, and Reality</u>	
<b>OR</b>	
<u>HY 275 Perspectives on Science and Mathematics</u>	<u>3</u>

**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 Electrical Engineering.**

**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.**

<u>EHS 125 Step 1: Inquiry Approaches to Teaching</u>	<u>1</u>
<u>EHS 126 Step 2: Inquiry Approaches to Teaching</u>	<u>1</u>
<u>EHS 325 Knowing and Learning in Science and Mathematics</u>	<u>3</u>
<u>EHS 326 Classroom Interactions</u>	<u>3</u>

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

<u>EHS 327 Problem-Based Instruction</u>	<u>3</u>
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**Internship:**

**Students must take EHS 425 and EHS 426 in the same term.**

<u>EHS 425 Apprentice Teaching</u>	<u>6</u>
<u>EHS 426 Apprentice Teaching Seminar</u>	<u>1</u>

**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 Electrical Engineering Majors)

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

**Lower Division Courses**

MA 126 Calculus II <u>and</u> MA 252 Differential Equations	
<b><u>OR</u></b>	
EGR 265 Math Tools for Engineers <u>and</u> EE 254 Applied Numerical Methods	7
EE 210 Digital Logic	3
EE 233 Engineering Programming Methods	3
	<b><u>13 Hours</u></b>

**Upper Division Courses**

MA 361 Functions and Modeling	3
EE 300 Engineering Problem Solving	3
EE 333 Engineering Programming using Objects	3
EE 421 Communication Systems	3
EE 314 Electrical Circuits <b><u>OR</u></b>	
EE 318 Methods of Systems Analysis <b><u>OR</u></b>	
EE 426 Control Systems	3
EE 316 Electrical Networks and Lab <b><u>OR</u></b>	
EE 337 Introduction to Microprocessors <b><u>OR</u></b>	
EE 351 Electronics <b><u>OR</u></b>	
EE 361 Machinery	4
	<b><u>19 Hours</u></b>