



(Required Certification Sequence for UABTeach Program for Electrical Engineering)

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: (9 Hours)

Literature 3-6
Humanities 3-6
Fine Arts 3

Mathematics: (4 Hours)

MA 125 Calculus I **OR**
MA 126 Calculus II 4

Science: (Choose 8 Hours from the following)

BY 123 Introductory Biology I 4
CH 115/116 Chemistry I with Lab 4
CH 117/118 Chemistry II with Lab 4
PH 221 General Physics I and Lab 4
PH 222 General Physics II and Lab 4

Social Science: (9 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 Electrical Engineering.

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 [Signature]

Date: 11/19/19



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Class B Mathematics Education Program Checklist Teaching Field Courses

Lower Division Courses

MA 126 Calculus II and MA 252 Differential Equations

OR

EGR 265 Math Tools for Engineers and EE 254 Applied Numerical Methods

7

EE 210 Digital Logic

3

EE 233 Engineering Programming Methods

3

13 Hours

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 OR

EE 318 Methods of Systems Analysis OR

EE 426 Control Systems

3

EE 316 Electrical Networks and Lab OR

EE 337 Introduction to Microprocessors OR

EE 351 Electronics OR

EE 361 Machinery

4

19 Hours