



(Required Certification Sequence for UABTeach Candidates Majoring in Civil 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)

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 Civil 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 Taylor

Date: 11/14/19



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**Class B Mathematics Education Program Checklist
Teaching Field Courses (32/19 Analysis)**

Lower Division Courses

| | |
|--|-----|
| EGR 100 Intro to Engineering | 2 |
| EGR 150 Computer Methods in Engineering | 3 |
| EGR 265 Math Tools for Engineers OR MA 126 Calculus II and MA 252 Differential Equations | 4-7 |
| CE 210 Statics | 3 |
| CE 220/221 Mechanics of Solids and Lab | 3 |

15-18 hours

Upper Division Courses

| | |
|---|---|
| EH 300 Engineering Communications | 3 |
| MA 361 Functions and Modeling | 3 |
| CE 332/L Soils Engineering and Lab | 4 |
| CE 360 Structural Analysis | 3 |
| CE 395 Engineering Economics | 3 |
| CE 337 Hydraulics OR CE 344 Civil Engineering Analysis I OR CE 345 Transportation Engineering | 3 |

19 hours