(Required certification sequence for UABTeach Program for Civil 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**

<table>
<thead>
<tr>
<th>General Studies</th>
<th>Professional Studies</th>
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</table>
| Shall include courses and/or experiences in the humanities, social studies, mathematics, and science. | 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  

| Humanities: | These courses require admission to TEP before they can be taken.  
EHS 327 Problem-Based Instruction 3 |
|------------|-------------------------------------------------|
| EH 101 English Composition I 3  
EH 102 English Composition II 3  
Literature (See AGSC List) 3-6  
Humanities/Fine Arts (See AGSC List) 3-6  
Fine Arts (See AGSC List) 3 |

| Social Science: | Internship:  
Students must take EHS 425 and EHS 426 in the same term.  
EHS 425 Apprentice Teaching 6  
EHS 426 Apprentice Teaching Seminar 1 |
|---------------|-------------------------------------------------|
| History 3-6  
Non-History Social Science 3-9 |

<table>
<thead>
<tr>
<th>Science:</th>
<th>Teaching Field</th>
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</thead>
</table>
| 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 |

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<tr>
<th>Mathematics:</th>
<th>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.)</th>
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</table>
| MA 125 Calculus I OR 4  
MA 126 Calculus II 4 |

| Other: | See attached requirements on page 2.  
Dean of Education: Michelle Robinson  
Date: 10/13/2022 |
|--------|-------------------------------------------------|
| PHIL 270 Science, Knowledge, and Reality 3  
OR  
HY 275 Perspectives on Science and Mathematics |

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