Mathematics Education, BA

Requirements

The Bachelor of Arts with a major in mathematics education requires a minimum of 120 s.h., including the general education requirements for the degree, 46 s.h. in mathematics professional education courses, and a minimum of 41–42 s.h. in mathematics education content courses for students earning the BA in mathematics or a minimum of 47-50 s.h. in mathematics education content courses for students earning the BS in mathematics. General education requirements to earn a bachelor of arts degree from the College of Education are the GE CLAS Core of the College of Liberal Arts and Sciences (CLAS). The major requires admission to the Teacher Education Program (TEP), and students must maintain TEP academic and professional standards. Application information can be obtained through the Office of Student Services.

Students must earn a BA in mathematics (Program B) or a BS in mathematics (Program B) at the University of Iowa in order to earn the BA in mathematics education; both degrees may be earned at the same time. Graduates who have earned one of these degrees at another institution and wish to earn the BA in mathematics education should consult the Department of Teaching and Learning; additional coursework may be required. Students also complete coursework in teacher licensure including student teaching.

For initial licensure, student teaching must be an all-day, full-semester experience. Most students are placed in a district within a 60-mile radius of Iowa City. Placements outside this area require special approval and are considered on an individual basis. Special site programs provide experience in districts with diverse populations and students also may apply to student teach at international sites for the second half of the semester.

Additional information about options for student teaching and application procedures is available from the Office of Student Services. Applications for student teaching must be submitted during the calendar year before the student teaching semester. The deadline for students planning to student teach the following fall semester is Nov. 15 and April 15 for the following spring semester.

The BA with a major in mathematics education requires the following work.

Professional Education Course Requirements

Students complete 46 s.h. from the following.

Foundation Courses

Foundation courses may be completed before or after admission to the major.

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<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>All of these:</td>
<td></td>
<td></td>
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<tr>
<td>EDTL:4900</td>
<td>Foundations of Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EPLS:3000</td>
<td>Foundations of Education</td>
<td>3</td>
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MATH:3770  Fundamental Properties of Spaces and Functions I  4
STAT:3120  Probability and Statistics  4
One of these:
MATH:4050  Introduction to Discrete Mathematics  3
MATH:4060  Discrete Mathematical Models  3
And:
For students earning a BA in mathematics, one additional course beyond calculus  3-4
For students earning a BS in mathematics, three additional courses beyond calculus, including at least two courses numbered MATH:4120 or above  9-12

Endorsements
The mathematics education TEP is approved by the state of Iowa as preparation for teaching licensure with endorsement for grades 5-12 mathematics. Added endorsement programs for additional teaching areas are available.

Teacher Education Program
Academic and Professional Standards
State of Iowa teacher preparation standards require that teacher candidates demonstrate the content, pedagogical, and professional knowledge, skills, and dispositions necessary to help all students learn. Because of this, the College of Education and the Teacher Education Program have established academic and professional standards that students must maintain. For undergraduate teacher candidates and Bachelor of Arts candidates in mathematics education, these standards include:

• a UI minimum cumulative GPA of 2.00;
• an overall minimum cumulative GPA of 2.00;
• a minimum TEP major GPA of 2.00 (2.70 for good standing);
• a grade of C-minus or higher in TEP major courses;
• no notices of concern in professional dispositional qualities;
• academic good standing in the College of Liberal Arts and Sciences;
• a minimum major GPA of 2.00 in the TEP CLAS content major; and
• a minimum UI major GPA of 2.00 in the TEP CLAS content major.

For additional information about these standards, contact the Office of Student Services.

Liberal Arts Core
State of Iowa teacher preparation standards require a core of liberal arts knowledge including but not limited to English composition, mathematics, natural sciences, social sciences, and humanities. The GE CLAS Core together with the mathematics education content courses satisfy these requirements. For additional information about these standards, contact the Office of Student Services.