Mathematics Education, B.A.

Requirements

The Bachelor of Arts with a major in mathematics education requires a minimum of 120 s.h., including 42 s.h. in mathematics professional education courses, and a minimum of 41-42 s.h. in mathematics education content courses for students earning the B.A. in mathematics or a minimum of 47-50 s.h. in mathematics education content courses for students earning the B.S. in mathematics. Students must maintain a g.p.a. of at least 2.70 in professional education course requirements. They also must complete the GE CLAS Core. The major requires admission to the Teacher Education Program (TEP). Application information can be obtained through the Office of Student Services.

Students must earn a B.A. in mathematics (Program B) or a B.S. in mathematics (Program B) at the University of Iowa in order to earn the B.A. in mathematics education; both degrees may be earned at the same time. Separate application to each degree program is required. Graduates who have earned one of these degrees at another institution and wish to earn the B.A. 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.

An Iowa secondary teaching license qualifies holders to teach in grades 5-12. Additional subject area endorsements can be completed in any 5-12 licensure program. For more information and an advisor, contact the Department of Teaching and Learning.

Additional Licensure Courses

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 November 15 and April 15 for the following spring semester.

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

Professional Education Course Requirements

Students complete 42 s.h. from the following.

Foundation Courses

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

Mathematics Education Content Courses

Students earning a B.A. in mathematics complete at least 41-42 s.h. from the following; students earning a B.S. in mathematics complete at least 47-50 s.h. from the following.
Mathematics Education, B.A.

Course Title Hours

Any Semester

Admission to the Teacher Education Program, College of Education, is by competitive application. For information about application requirements, process, and deadlines, please consult an advisor for the College of Education. Students must maintain a GPA of at least 2.70 in professional education course requirements. Students must earn another major at the University of Iowa in order to earn the BA in mathematics education. Both degrees may be earned at the same time.
a
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. GE CLAS Core: Sustainability b

First Year

Fall

MATH:1850 Calculus I c 4
ENGL:1200 or RHET:1030 The Interpretation of Literature or Rhetoric 3 - 4
GE CLAS Core: World Languages First Level Proficiency or elective course d 4 - 5
CSI:1600 Success at Iowa 2

Spring

PSQF:1075 Educational Psychology and Measurement 3
MATH:1860 Calculus II 4
ENGL:1200 or RHET:1030 The Interpretation of Literature or Rhetoric 3 - 4
GE CLAS Core: World Languages Second Level Proficiency or elective course d 4 - 5

10-hour pre-admission school field experience e

Hours 14-16

Summer

Prepare materials for Teacher Education Program application (e.g. essays, letters of recommendation)

Hours 0

Second Year

Fall

EPLS:3000 Foundations of Education 3
GE CLAS Core: International and Global Issues g 3
GE CLAS Core: World Languages Second Level Proficiency or elective course d 4 - 5
Course(s) required for second degree - consult sample plan for BA or BS in mathematics (Program B)

Admission Application: apply to the Teacher Education Program f

Hours 18-19

Spring

EDTL:3002 Teaching and Learning Technologies 2
EDTL:3091 Secondary Education Program Orientation and Classroom Management 3
EDTL:3095 Teaching Reading in Secondary Content Areas 1
GE CLAS Core: Social Sciences g 3
GE CLAS Core: World Languages Fourth Level Proficiency or elective course g 4 - 5
Course(s) required for second degree - consult sample plan for BA or BS in mathematics (Program B)

Hours 16-17

Third Year

Fall

EDTL:3532 Introduction and Practicum: Mathematics 3
EDTL:4900 Foundations of Special Education 3
GE CLAS Core: Historical Perspectives g 3
Course(s) required for second degree - consult sample plan for BA or BS in mathematics (Program B)

Hours 16

Spring

EDTL:3534 Methods: Middle School Mathematics 3
EPLS:4180 Human Relations for the Classroom Teacher 3
GE CLAS Core: Natural Sciences without Lab g 3
Course(s) required for second degree - consult sample plan for BA or BS in mathematics (Program B)

Apply for student teaching (see the College of Education website for application instructions and deadlines)

Hours 17

Fourth Year

Fall

EDTL:4535 Methods: High School Mathematics 3
GE CLAS Core: Literary, Visual, and Performing Arts 3
GE CLAS Core: Natural Sciences with Lab 4
Course(s) required for second degree - consult sample plan for BA or BS in mathematics (Program B) 7 - 8

<table>
<thead>
<tr>
<th>Hours</th>
<th>17-18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>EDTL:4087</td>
<td>Seminar: Curriculum and Student Teaching</td>
</tr>
<tr>
<td>EDTL:4091</td>
<td>Observation and Laboratory Practice in the Secondary School</td>
</tr>
<tr>
<td>EDTL:4092</td>
<td>Observation and Laboratory Practice in the Secondary School</td>
</tr>
<tr>
<td>Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall)</td>
<td></td>
</tr>
<tr>
<td>Exam: edTPA</td>
<td>15</td>
</tr>
</tbody>
</table>

Total Hours 126-133

a These majors include a BA in mathematics (program B) or a BS in mathematics (program B) at the University of Iowa.
b Sustainability must be completed by choosing a course that has been approved for Sustainability AND for one of these General Education areas: Natural Sciences; Quantitative and Formal Reasoning; Social Sciences; Historical Perspectives; International and Global Issues; Literary, Visual, and Performing Arts; or Values and Culture.
c Enrollment in math courses requires completion of a placement exam.
d Students who have completed four years of a single language in high school have satisfied the GE CLAS Core World Languages requirement. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course.
e Complete the College of Education 10-hour pre-admission school field experience verification form available on the Teacher Education Program web page.
f Please see the College of Education website for detailed application instructions and deadlines. Admission is selective and a priority deadline exists.
g GE CLAS Core courses may be completed in any order unless used as a prerequisite for another course. Students should consult with an advisor about the best sequencing of courses.
h Please see Academic Calendar, Office of the Registrar website for current degree application deadlines. Students should apply for a degree for the session in which all requirements will be met. For any questions on appropriate timing, contact your academic advisor or Graduation Services.
i As a requirement for completion of an approved Teacher Education Program for initial teaching licensure, the state of Iowa requires a passing score on this exam. The assessment is required before recommendation for licensure or certification to any state.