

# Mathematics Education

## Teacher Education Program 5-12

Student Name:

UID:

This program of the University of Iowa College of Education is approved by the state of Iowa as preparation for endorsement number 143, Mathematics 5-12, intended for students who have or are completing a bachelor's degree in Mathematics or equivalent.

### Requirements

- Completion of prerequisites MATH:1850 Calculus I and MATH:1860 Calculus II prior to application to the Teacher Education Program.
- [Admission to the Teacher Education Program](#).
- Completion of a major in mathematics as defined by the University of Iowa Department of Mathematics.
- Completion of the TEP Professional Education Course Requirements, field experiences, and [state assessment\(s\)](#).

### Professional Education Course Requirements

#### Complete all of the following in the first semester of enrollment

Course	Course Title	Credit	Session/Substitute
EDTL:3091	Secondary Orientation & Classroom Management	3 s.h.	
EDTL:3095	Teaching Reading Secondary Content Areas	1 s.h.	
EDTL:3002	Teaching and Learning Technologies	2 s.h.	

#### Complete all of the following (may be completed prior to TEP admission)

Course	Course Title	Credit	Session/Substitute
EPLS:3000	Foundations of Education	3 s.h.	
EDTL:4900	Foundations of Special Education	3 s.h.	
PSQF:1075	Educational Psychology and Measurement	3 s.h.	

#### Complete all of the following

Course	Course Title	Credit	Session/Substitute
EPLS:4180	Human Relations for the Classroom Teacher	3 s.h.	
EDTL:3532	Introduction and Practicum: Mathematics	3 s.h.	
EDTL:3534	Methods: Middle School Mathematics	3 s.h.	
EDTL:4535	Methods: High School Mathematics	3 s.h.	
EDTL:4750	Assessment in STEM	2 s.h.	

#### Student Teaching; register for section 0051 (Complete all of the following courses)

Course	Course Title	Credit	Session/Substitute
EDTL:4087	Seminar: Curriculum and Student Teaching	3 s.h.	
EDTL:4091	Observation and Lab Prac in Secondary School	6 s.h.	
EDTL:4092	Observation and Lab Prac in Secondary School	6 s.h.	

## Mathematics Content Requirements

### Complete all of the following

Course	Course Title	Credit	Session/Substitute
MATH:1850	Calculus I	4 s.h.	
MATH:1860	Calculus II	4 s.h.	
MATH:2150	Foundations of Geometry	3 s.h.	
MATH:2700	Introduction to Linear Algebra	4 s.h.	
MATH:2850	Calculus III	4 s.h.	
MATH:3720	Introduction to Abstract Algebra I	4 s.h.	
MATH:3770	Fundamental Properties of Spaces and Functions I	4 s.h.	
CS:1210	Computer Science I: Fundamentals	4 s.h.	
STAT:3120	Probability and Statistics	4 s.h.	

### Complete one of the following

Course	Course Title	Credit	Session/Substitute
MATH:4050	Introduction to Discrete Mathematics	3 s.h.	
MATH:4060	Discrete Mathematics Models	3 s.h.	

### Additional courses in Mathematics

Course	Course Title	Credit	Session/Substitute

### Additional Information

This Program Guide is for planning and documentation of program completion. State requirements for licensure and endorsements are subject to change without notice; check with your advisor or the Office of Education Services for updated requirements. Course transfer and substitution may require syllabi or other documentation in addition to transcript. Revised 04/01/2022 DH/BJ version 4.2.2.

For additional information, admissions procedures, or advising referral, please contact Office of Student Services, College of Education, N201 Lindquist Center, Iowa City, IA 52242, 319-335-5359, FAX: 319-335-5364, ask-education@uiowa.edu, <https://education.uiowa.edu/>