

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 and field experiences.

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 (fall)	2 s.h.	
EDTL:4751	Learning in the STEM Classroom (fall)	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 04/10/2023 DH/BJ version 4.3.

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, ask-education@uiowa.edu, <https://education.uiowa.edu/>