Student Name: UID:

State of Iowa approved preparation program for endorsement number 142, Mathematics K-8, when completed with or following an Elementary Education Teacher Education Program K-6 (endorsement 102). The holder of this endorsement is authorized to teach mathematics from the kindergarten level through grade eight.

Requirements

- Completion of the methods of teaching mathematics courses listed below; and
- Completion of a minimum additional twenty-four semester hours in mathematics to include courses in algebra, geometry, number theory, measurement, computer programming, and probability and statistics.

Methods of Teaching Mathematics

Course	Course Title	Credit	Session/Substitute
EDTL:3163	Methods: Elementary School Mathematics	3 s.h.	
EDTL:3534	Methods: Middle School Mathematics	3 s.h.	

Mathematics (minimum 24 s.h. to include the following)

Number Theory (Complete one of the following or an approved substitution)

EDTL:3141	Number and Operations	3 s.h.	
MATH:3720	Introduction to Abstract Algebra	3 s.h.	

Algebra (Complete one of the following or an approved substitution)

MATH:1020	Elementary Functions	4 s.h.	
MATH:1240	Finite Mathematics	4 s.h.	
MATH:1340	Mathematics for Business	4 s.h.	
MATH:1440	Mathematics for Biological Sciences	4 s.h.	
MATH:2700	Introductions to Linear Algebra	4 s.h.	
MATH:2550	Engineering Mathematics III: Matrix Algebra	2 s.h.	

Geometry (Complete one of the following or an approved substitution)

MATH:1140	Mathematical Basis of Elementary Geometry (formerly, Geometry for Elementary Teachers)	3 s.h.	
MATH:2150	Foundations of Geometry	3 s.h.	
EDTL:3141	Geometry and Measurement	3 s.h.	

Complete one of the following or an approved substitution

MATH:1460	Calculus for the Biological Sciences	4 s.h.	
MATH:1380	Calculus & Matrix Algebra for Business	4 s.h.	
MATH:1850	Calculus I	4 s.h.	
MATH:1550	Engineering Calculus I: Single Variable Calc.	4 s.h.	

Computer Programming (Complete one of the following or an approved substitution)

CS:1020	Computer Literacy	3 s.h.	
CS:1110	Introductions to Computer Science	3 s.h.	
CS:1210	Computer Science I: Fundamentals	3 s.h.	

Probability and Statistics (Complete one of the following or an approved substitution)

STAT:1010	Statistics and Society	3 s.h.	
STAT:1030	Statistics for Business	4 s.h.	
STAT:1020	Elementary Statistics and Inference	3 s.h.	
STAT:2020	Prob. & Stats. For Engineer. & Physical Sci.	3 s.h.	
STAT:4143	Introduction to Statistical Methods	3 s.h.	
STAT:3120	Probability and Statistics	4 s.h.	

Electives (Complete college-level courses from CS (22C), MATH (22M), or STAT (22S), or approved transfer courses, to reach 24 s.h.)

		Total s.h. (=>24)	

Course Overlap with Mathematics 5-12

The following course options from above also are part of The University of Iowa approved program for endorsement 143 Mathematics grades 5-12:

- CS:1210 Computer Science I: Fundamentals
- MATH:1850 Calculus I
- MATH:2150 Foundations of Geometry
- MATH:2700 Introductions to Linear Algebra
- MATH:3720 Introduction to Abstract Algebra
- STAT:3120 Probability and Statistics

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 adviser or the Office of Education Services for updated requirements. Course transfer and substitution may require syllabi or other documentation in addition to transcript. Revised 2/17/2015 KM/DLT version 2.3.

For additional information, admissions procedures, or advising referral, please contact Office of Education Services, College of Education, N310 Lindquist Center, Iowa City, IA 52242, 319-335-5359, FAX: 319-335-5364, edu-educationservices@uiowa.edu, http://www.education.uiowa.edu