## Student Name:

 UID:This program of the University of lowa College of Education is approved by the state of Iowa as preparation for endorsement number 142, Mathematics K-8, when completed with or following a Teacher Education Program.

## Requirements

- Completion of the methods of teaching mathematics courses listed below.
- Completion of a minimum additional twenty-four semester hours in mathematics to include courses in algebra, computer programming, geometry, measurement, number theory, and probability and statistics.
- Admission to the Teacher Education Program.
- Completion of the TEP Professional Education Course Requirements and field experiences.


## Professional Education Requirements

Complete both of the following.

| 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 Content Requirements
Complete a minimum 24 s.h. in the following areas.

## Algebra

Complete one of the following or an approved substitute.

| Course | Course Title | Credit | Session/Substitute |
| :---: | :--- | :--- | :--- |
| 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:2550 | Engineering Mathematics III: Matrix Algebra | 2 s.h. |  |
| MATH:2700 | Introductions to Linear Algebra | 4 s.h. |  |
|  |  |  |  |

## Computer Programming

Complete one of the following or an approved substitute.

| Course | Course Title | Credit | Session/Substitute |
| :--- | :--- | :--- | :--- |
| CS:1020 | Principles of Computer | 3 s.h. |  |
| CS:1110 | Introduction to Computer Science | 3 s.h. |  |
| CS:1210 | Computer Science I: Fundamentals | 3 s.h. |  |
|  |  |  |  |

## Geometry and Measurement

Complete one of the following or an approved substitute.

| Course | Course Title | Credit | Session/Substitute |
| :--- | :--- | :--- | ---: |
| EDTL:3142 | Geometry and Measurement | 3 s.h. |  |
| MATH:1140 | Mathematical Basis of Elementary Geometry <br> (formerly: Geometry for Elementary Teachers) | 3 s.h. |  |
| MATH:2150 | Foundations of Geometry | 3 s.h. |  |
|  |  |  |  |

## Number Theory

Complete one of the following or an approved substitute.

| Course | Course Title | Credit | Session/Substitute |
| :--- | :--- | :--- | :--- |
| EDTL:3141 | Number and Operations | 3 s.h. |  |
| MATH:1120 | Logic of Arithmetic | 3 s.h. |  |
| MATH:3720 | Introduction to Abstract Algebra | 3 s.h. |  |
|  |  |  |  |

## Probability and Statistics

Complete one of the following or an approved substitute.

| Course | Course Title | Credit | Session/Substitute |
| :--- | :--- | :--- | ---: |
| STAT:1010 | Statistics and Society | 3 s.h. |  |
| STAT:1020 | Elementary Statistics and Inference | 3 s.h. |  |
| STAT:1030 | Statistics for Business | 4 s.h. |  |
| STAT:2020 | Prob. \& Stats. For Engineering \& Physical Science | 3 s.h. |  |
| STAT:3120 | Probability and Statistics | 4 s.h. |  |
| STAT:4143 | Introduction to Statistical Methods | 3 s.h. |  |
|  |  |  |  |

Complete one of the following or an approved substitute.

| Course | Course Title | Credit | Session/Substitute |
| :--- | :--- | :--- | ---: |
| MATH:1380 | Calculus \& Matrix Algebra for Business | 4 s.h. |  |
| MATH:1460 | Calculus for the Biological Sciences | 4 s.h. |  |
| MATH:1550 | Engineering Math I: Single Variable Calculus | 4 s.h. |  |
| MATH:1850 | Calculus I | 4 s.h. |  |
|  |  |  |  |

## Electives

Complete courses from CS, MATH, STAT, or approved substitutes, to reach 24 s.h.

| Course | Course Title | Credit | Session/Substitute |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
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## Course Overlap with Mathematics 5-12 endorsement

The following course options from above are also required coursework as 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


## 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 7/22/2022 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, FAX: 319-335-5364, ask-education@uiowa.edu, https://education.uiowa.edu/

