# Mathematics 5-12 and Basic

Name:

Email:

## Options for Mathematics endorsements

Your coursework may provide several options for teaching mathematics grades 5-12. Your official analysis may provide feedback on your progress toward one or both options.

## Option 1: Mathematics 5-12

Requirements for the endorsement #143 Mathematics 5-12 include:
Completion of 24 semester hours in mathematics to include coursework in:

* Linear algebra or abstract (modern) algebra (higher level than college algebra)
* Geometry
* Two-course sequence of calculus
* Computer programming
* Probability and statistics
* Discrete mathematics

For holders of the physics 5-12 endorsement or All Science endorsement, completion of 17 semester hours in mathematics to include a geometry course, a two-course sequence in calculus, a probability and statistics course, and coursework in discrete mathematics.

## Option 2: Mathematics Basic

Requirements for the endorsement #1431 Mathematics – Basic 5-12 include:
Completion of 24 semester hours in mathematics to minimally include:

* A course titled College Algebra or higher
* A geometry course
* A computer programming course
* A probability and statistics course

To view the subject/courses you can teach with these endorsements, visit the [Board of Educational Examiners website, BEDS information](https://boee.iowa.gov/beds-information).

Please indicate below the coursework you have completed for this endorsement. Coursework must appear on your transcript for each institution.

### Linear or an abstract (modern) algebra

### For Basic: College algebra (must be titled College Algebra) or higher algebra course

| Course Number | Course Title | Institution | Semester Hours | Semester/Year Completed |
| --- | --- | --- | --- | --- |
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|  |  |  |  |  |

### Geometry

| Course Number | Course Title | Institution | Semester Hours | Semester and Year Completed |
| --- | --- | --- | --- | --- |
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|  |  |  |  |  |

### Two-sequence in calculus

| Course Number | Course Title | Institution | Semester Hours | Semester and Year Completed |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |

### Computer programming

| Course Number | Course Title | Institution | Semester Hours | Semester and Year Completed |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |

### Probability and statistics

| Course Number | Course Title | Institution | Semester Hours | Semester and Year Completed |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |

### Discrete mathematics

| Course Number | Course Title | Institution | Semester Hours | Semester and Year Completed |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
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