# Iowa Department of Education5-12 Mathematics Endorsement Worksheet

**Endorsement 143: 5-12 Mathematics.**

**Completion of 24 semester hours in mathematics to include a linear algebra or an abstract (modern) algebra course, a geometry course, a two-course sequence in calculus, a computer programming course, a probability and statistics course, and coursework in discrete mathematics.**

**For holders of the 5-12 physics or 5-12 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.**

A linear algebra or an abstract (modern) algebra course

| **Course #** | **Course Title** | **Institution** | **Semester Hours** | **Year Completed** |
| --- | --- | --- | --- | --- |
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A geometry course

| **Course #** | **Course Title** | **Institution** | **Semester Hours** | **Year Completed** |
| --- | --- | --- | --- | --- |
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A two-course sequence in calculus

| **Course #** | **Course Title** | **Institution** | **Semester Hours** | **Year Completed** |
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A computer programming course

| **Course #** | **Course Title** | **Institution** | **Semester Hours** | **Year Completed** |
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A probability and statistics course

| **Course #** | **Course Title** | **Institution** | **Semester Hours** | **Year Completed** |
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Coursework in discrete mathematics

| **Course #** | **Course Title** | **Institution** | **Semester Hours** | **Year Completed** |
| --- | --- | --- | --- | --- |
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**Content methods courses that cover the specific endorsement area and grade levels are required in addition to the content coursework and credits listed above.**

Methods of teaching secondary mathematics

| **Course #** | **Course Title** | **Institution** | **Semester Hours** | **Year Completed** |
| --- | --- | --- | --- | --- |
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21.3(1) Adding an endorsement. To add an endorsement to an existing license, the applicant will follow one of these options:

a. Option 1. Receive the Iowa education institution’s recommendation that the current approved program requirements or state minimum requirements for the endorsement have been met.

b. Option 2. Apply for a review of transcripts, out-of-state licensure, or approved assessment score reports by the board of educational examiners’ staff to determine whether Iowa requirements have been met. Applicants will have achieved a C- grade or higher in the courses that will be considered for an endorsement. The methods course can be waived if the practitioner holds an endorsement in the same content area at a different level and teaches in the new content area successfully while holding a Class B license.