



## Complementary Secondary Endorsement Mathematics 5-12

**Complementary teaching endorsements support initial Secondary Education teaching licenses. These complementary endorsements authorize a teacher to teach in additional content areas in grades 5-12.** Students must earn a minimum 3.0 GPA in courses required for each endorsement. No D grades are accepted. Please see the Secondary Education major sheet and/or the university catalog for additional information.

After completing any 5-12 Secondary Education Initial Content Endorsement, a Mathematics Endorsement may be added.

**Iowa Teaching Endorsement: #134**

**Requirements for the Endorsement: 34 credits**

### Essential Competencies-Outcome Iterations

\*\*Transfer courses do not receive outcome iterations\*\*

|                              |  |   | CI | IL | W | O | Q | GA | V |
|------------------------------|--|---|----|----|---|---|---|----|---|
| CPSC 155 or<br>BSAD/CPSC 241 | Programming Using Visual Basic or<br>Computer Science I                | 3 |    |    |   |   |   |    |   |
| MATH 231                     | Calculus with Analytic Geometry I                                      | 5 | x  |    |   |   | x |    |   |
| MATH 232                     | Calculus with Analytic Geometry II                                     | 5 |    |    |   |   |   |    |   |
| STAT 261                     | Applied Statistics   | 3 |    |    |   |   | x |    |   |
| MATH 300                     | Introduction to Mathematical Reasoning                                 | 3 |    |    |   |   | x |    |   |
| MATH 301                     | Modern Geometries  | 3 |    |    |   |   |   |    |   |
| MATH 331 or<br>MATH 335      | Linear Algebra or<br>Introduction to Abstract Algebra                  | 3 |    |    |   |   |   |    |   |
| MATH 340                     | Discrete Computational Structures                                      | 3 |    |    |   |   |   |    |   |
| MATH 450                     | Senior Seminar   | 3 | x  | x  | x | x | x |    | x |
|                              | Any one upper level (300 and above) MATH course, excluding<br>MATH 399 | 3 |    |    |   |   |   |    |   |

**ANY CHANGES/SUBSTITUTIONS MUST BE APPROVED BY THE GRAND VIEW UNIVERSITY EDUCATION DEPARTMENT CHAIR.**

This information must be used in conjunction with the 2018-2019 Grand View University Catalog and does not reflect a student's official record of progress. Students are expected to use the Progress tool found on myView > GV Self Service when monitoring and planning coursework. Other available resources include: Course Planning Documents (found on myView under Academics) and the faculty and staff who work with academic requirements.