

**5-12 Mathematics Major - 143
Advising Checklist**

Name _____

Education Core:

- _____ 205 Educational Foundations
- _____ 215 Practicum in Education
- _____ 257 Exceptional Learner
- _____ 387 Human Relations
- _____ 235 Educational Psychology
- _____ 475 Methods of Sec. Math

Iowa General Education:

- _____ Mathematics
- _____ Natural Science
- _____ Social Science
- _____ Humanities

Requirements for the Major:

- _____ CS 125 Computer Science I
- _____ MTH 135 Calculus I
- _____ MTH 145 Calculus II
- _____ MTH 215 Foundations of Advanced Mathematics
- _____ MTH 255 Calculus III
- _____ MTH 265 Linear Algebra
- _____ MTH 385 Modern Algebra

One of the following:

- _____ MTH 415 Real Analysis I
- _____ MTH 445 Complex Analysis

Three of the following:

- _____ STA 315 Probability/Statistics I
- _____ STA 325 Probability/Statistics II
- _____ MTH 305 Advanced Geometry
- _____ MTH 325 Differential Equations
- _____ MTH 395 Modern Algebra II
- _____ MTH 415 Real Analysis I (if not used to satisfy 8)
- _____ MTH 425 Real Analysis II
- _____ MTH 445 Complex Analysis (if not used to satisfy 8)
- _____ MTH 455 Mathematical Modeling
- _____ MTH 505 Set Theory/Topology
- _____ MTH 705 Special Topics
- _____ MTH 8_5 Independent Study

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