

Major:

Mathematics (B.A., B.S.)

Departments/Programs:

Mathematics

Mathematics Major (B.A. or B.S., 39-40 hours)

| Courses | |
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| MATH 1600 Calculus I | 5 hours |
| MATH 1610 Calculus II | 5 hours |
| MATH 2200 Introduction to Higher Mathematics | 3 hours |
| MATH 2600 Calculus III | 4 hours |
| MATH 3200 Linear Algebra | 3 hours |
| MATH 3300 Mathematical Statistics I | 3 hours |
| MATH 3600 Mathematical Problem Solving | 1 hour |
| MATH 3750 Numerical Analysis or MATH 3700 Mathematical Modeling | 3 hours |
| MATH 4200 Abstract Algebra I | 3 hours |
| MATH 4300 Real Analysis | 3 hours |
| Math electives | 3-4 hours |
| Not taken from above: MATH 3000 Formal Languages and Automata MATH 3100 Differential Equations MATH 3310 Mathematical Statistics II MATH 3400 Number Theory MATH 3500 Geometry MATH 3700 Mathematical Modeling MATH 3750 Numerical Analysis MATH 3900/MATH 4900 Selected Topics MATH 4210 Abstract Algebra II | |
| Senior Comprehensive: | 3 hours |
| MATH 4980 Mathematics Seminar | 3 hours |

Students seeking an education field endorsement in mathematics follow the above requirements with the following changes:

- Take MATH 3500 Geometry rather than MATH 4300 Real Analysis.
- Take EDUC 4870 Supervised Teaching in the Secondary School rather than MATH 4980 Mathematics Seminar.
- May use MATH 4300 Real Analysis or MATH 4980 Mathematics Seminar as part of the 3-4 hours of mathematics electives.

See the Nebraska Wesleyan University Department of Education for information regarding education courses required for teaching certification.

An approved supporting program of 20 hours that includes CMPSC 1500 Program Design is also required for all Mathematics majors. Cooperatively designed by the student and advisor, the supporting program may overlap with one or more minors or a second major.

For the mathematics major, the B.A. degree requires a minor from the humanities or arts, or more than 50 percent of the supporting program from these areas, while the B.S. degree requires a minor from the natural or social sciences, or more than 50 percent of the supporting program from these areas. Mathematics majors seeking an education endorsement whose supporting program consists of education courses will receive a B.S. degree.