

Major:

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

Academically equivalent, both bachelor of art and bachelor of science will fully prepare you for a career in mathematics. If you choose to graduate with two majors, and one major is only offered as a B.A. or B.S., the second major should match the first degree. Mathematics majors seeking an education endorsement will receive a B.S. degree.

Departments/Programs:

Mathematics and Computer Science

Mathematics Major (B.A. or B.S.** , 48-49 hours)

| Courses | 34 hours |
|--|-----------|
| MATH 1600 Calculus I | 5 hours |
| MATH 1610 Calculus II | 5 hours |
| MATH 2200 Foundations of Modern Mathematics | 3 hours |
| MATH 2600 Calculus III | 4 hours |
| MATH 3200 Linear Algebra | 3 hours |
| MATH 3300 Mathematical Statistics I | 3 hours |
| MATH 3750 Numerical Analysis or MATH 3700 Mathematical Modeling | 3 hours |
| MATH 4200 Abstract Algebra I | 4 hours |
| MATH 4300 Real Analysis | 4 hours |
| Math Elective | 3-4 hours |

Select one of the following (may not use a course taken above as an elective):

- MATH 3100 Differential Equations
- MATH 3500 Geometry
- MATH 3700 Mathematical Modeling
- MATH 3750 Numerical Analysis
- MATH 4800 Research Experience

| Capstone | 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.

| Required Supporting Program | 8 hours |
|---------------------------------|---------|
| CMPSC 1100 Python Programming I | 4 hours |

| Required Supporting Program | 8 hours |
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| CMPSC 2100 Python Programming II or DATA 1200 Excel and SQL Programming | 4 hours |

***A Mathematics major may earn either a B.A. or B.S. degree. However, if a student has a first major that is associated with a different baccalaureate degree, the Mathematics major may serve as a second major for the degree associated with the first major (B.F.A., B.M., B.S.N.).*