Nebraska Wesleyan University

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

Catalog

2022-2023

Program Description

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

1. 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
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.FA., B.M., B.S.N.).*