Nebraska Wesleyan University

MATH 2200 Foundations of Modern Mathematics

Catalog

2025-2026

Course Description

This course develops some of the most fundamental ideas and techniques underpinning all of mathematics. We will investigate questions such as: What is the structure of deductive logic? How do mathematicians ascertain and communicate truth? How are numbers and infinities constructed? Are there limits to mathematical understanding? Emphasis will be placed on strengthening the ability to write clear, precise arguments in the context of mathematical foundations (logic, numbers, sets, functions, etc.). This course is open to students from all majors and requires no specific mathematics background.

Prerequisite(s): MATH 1100 College Algebra or MATH 1300 Statistics or MATH 1600 Calculus I or permission of the instructor.

(Normally offered each spring semester.)

Course Hours

3 hours

Departments

1. Mathematics and Computer Science