

MATH 2200 Foundations of Modern Mathematics

3 hours

Majors, Minors & Degrees:

Majors

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

Minors

Mathematics

Departments/Programs:

Mathematics and Computer Science

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-100 or MATH 1300 Statistics or MATH 1600 Calculus I or permission of the instructor.

(Normally offered each spring semester.)