Nebraska Wesleyan University

MATH 3400 Number Theory

Catalog

2014-2015

Course Description

A study of fundamental concepts in number theory, including divisibility and factorization of integers, linear and quadratic congruences, the quadratic reciprocity theorem, Diophantine equations, number-theoretic functions, and continued fractions. Additional topics may include Euler's theorem and cryptography, perfect numbers and Mersenne primes, Pythagorean triples, and Fermat's Last Theorem.
Prerequisite(s): Grade of "C" or better in MATH 1610 Calculus II.

Course Hours

3 hours

Departments

1. Mathematics