**Nebraska Wesleyan University**

# MATH 209 Number Theory

## Catalog

2011-2012

## 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 106 Calculus II.*

## Course Hours

3 hours

## Departments

1. Mathematics and Computer Science