MATHEMATICS - MINOR

College of Arts and Sciences
Department of Mathematical Sciences
233 Mathematics and Computer Science Building
Kent Campus
330-672-2430
math@math.kent.edu
www.kent.edu/math

Description
The Mathematics minor offers study in several areas of pure mathematics and can be combined with several majors, including those in the sciences and education.

FULLY OFFERED AT:
- Kent Campus
- Stark Campus

Admission Requirements
Admission to a minor is open to students enrolled in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students enrolled only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Minor Requirements

Prerequisite Requirements

MATH 10774 ALGEBRA FOR CALCULUS STRETCH II (KMCR)
or MATH 10775 ALGEBRA FOR CALCULUS PLUS (KMCR)
or MATH 11010 ALGEBRA FOR CALCULUS (KMCR)

MATH 11022 TRIGONOMETRY (KMCR)

Computer Programming Elective, choose from the following:

CS 10051 INTRODUCTION TO COMPUTER SCIENCE (KMCR)
CS 10061 INTRODUCTION TO COMPUTER PROGRAMMING
CS 13001 COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING
CS 13011 & CS 13012 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING
and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING (min C grade in both courses)
DSCI 15310 COMPUTATIONAL THINKING AND PROGRAMMING

Minor Requirements

MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR) 5
MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II 5
MATH 21001 LINEAR ALGEBRA WITH APPLICATIONS 3
MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III 4
MATH 31011 DISCRETE MATHEMATICS 3
or MATH 32044 INTRODUCTION TO ORDINARY DIFFERENTIAL EQUATIONS
or Mathematics Upper-Division Course (MATH 40000 level)

Mathematics Electives, choose from the following: 6

Algebra
MATH 41001 INTRODUCTION TO MODERN ALGEBRA I (ELR) (WIC)
MATH 41002 INTRODUCTION TO MODERN ALGEBRA II (ELR) (WIC)
MATH 41021 THEORY OF MATRICES
MATH 47011 THEORY OF NUMBERS

Analysis
MATH 42001 INTRODUCTION TO ANALYSIS I (ELR) (WIC)
MATH 42002 INTRODUCTION TO ANALYSIS II (ELR) (WIC)
MATH 42041 ADVANCED CALCULUS
MATH 42045 INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS
MATH 42048 INTRODUCTION TO COMPLEX VARIABLES

Geometry/Topology
MATH 42021 GRAPH THEORY AND COMBINATORICS
MATH 45011 DIFFERENTIAL GEOMETRY
MATH 45021 EUCLIDEAN GEOMETRY
MATH 45022 LINEAR GEOMETRY
MATH 46001 ELEMENTARY TOPOLOGY

Minimum Total Credit Hours: 26

Graduation Requirements

Minimum Minor GPA

2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).