MATHEMATICS - MINOR

College of Arts and Sciences
Department of Mathematical Sciences
www.kent.edu/math

Contact Information
• Program Coordinator: Xiaoyu Zheng | xzheng3@kent.edu | 330-672-9089
• Speak with an Advisor
  • Kent Campus
  • Stark Campus

Fully Offered
• Delivery:
  • In person
• Location:
  • Kent Campus
  • Stark Campus

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.

Admission Requirements
Admission to a minor is open to students declared 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 declared 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.

Program Requirements

Minor Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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Prerequisite Requirements

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MATH 12002</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)</td>
<td>5</td>
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<tr>
<td>MATH 12003</td>
<td>ANALYTIC GEOMETRY AND CALCULUS II (min C grade)</td>
<td>5</td>
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<tr>
<td>MATH 21001</td>
<td>LINEAR ALGEBRA (min C grade)</td>
<td>3</td>
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<tr>
<td>MATH 22005</td>
<td>ANALYTIC GEOMETRY AND CALCULUS III (min C grade)</td>
<td>4</td>
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<tr>
<td>MATH 31011</td>
<td>PROOFS IN DISCRETE MATHEMATICS (min C grade)</td>
<td>3</td>
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<tr>
<td>or MATH 32044</td>
<td>ORDINARY DIFFERENTIAL EQUATIONS</td>
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<tr>
<td>or Mathematics Upper-Division Course (MATH 40000 level)</td>
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Mathematics Electives, choose from the following:

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

Analysis
- MATH 42001 ANALYSIS I (ELR) (WIC)
- MATH 42002 ANALYSIS II (ELR) (WIC)
- MATH 42041 ADVANCED CALCULUS
- MATH 42045 PARTIAL DIFFERENTIAL EQUATIONS
- MATH 42048 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
Minimum Overall 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).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).