**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 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.

**Minor Requirements**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MATH 10774</td>
<td>ALGEBRA FOR CALCULUS STRETCH II (KMCR)</td>
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<tr>
<td>or MATH 10775</td>
<td>ALGEBRA FOR CALCULUS PLUS (KMCR)</td>
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<tr>
<td>or MATH 11010</td>
<td>ALGEBRA FOR CALCULUS (KMCR)</td>
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<tr>
<td>MATH 11022</td>
<td>TRIGONOMETRY (KMCR)</td>
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Computer Programming Elective, choose from the following:
- CS 10051 INTRODUCTION TO COMPUTER SCIENCE (KMCR)
- CS 10062 PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES
- 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

**Prerequisite Requirements**
- MATH 10774 ALGEBRA FOR CALCULUS STRETCH II (KMCR)
- MATH 10775 ALGEBRA FOR CALCULUS PLUS (KMCR)
- MATH 11010 ALGEBRA FOR CALCULUS (KMCR)
- MATH 11022 TRIGONOMETRY (KMCR)

**Mathematics Electives, choose from the following:**
- MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)
- MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II (KMCR)
- MATH 21001 LINEAR ALGEBRA WITH APPLICATIONS
- MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III
- MATH 31011 PROOFS IN DISCRETE MATHEMATICS

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<td>ANALYTIC GEOMETRY AND CALCULUS III</td>
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<td>MATH 31011</td>
<td>PROOFS IN DISCRETE MATHEMATICS</td>
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**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).
- 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).