MATHEMATICS MINOR, UG

for the Undergraduate Minor in Mathematics

Students must complete MATH 241, and at least one 400-level MATH course for admission into the minor. The Mathematics minor is designed to prepare students majoring in some other discipline with a background in mathematics that is both broad and deep. Students interested in pursuing the minor should have completed the calculus sequence through MATH 241, and one additional Math course at the 400-level demonstrating a strong record of success in college-level mathematics courses. Given the cumulative character of mathematics preparation, students earning grades of C or below in previous mathematics courses are advised not to pursue the minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MATH 241</td>
<td>Calculus III</td>
<td>4</td>
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</table>

Five courses chosen from the following lists: 15

Algebra
- ASRM 406 Linear Algebra with Financial Applications (formerly MATH 410)
- MATH 257 Linear Algebra with Computational Applications
- MATH 415 Applied Linear Algebra
- MATH 416 Abstract Linear Algebra
- MATH 417 Intro to Abstract Algebra II
- MATH 453 Number Theory

Discrete Mathematics
- MATH 412 Graph Theory
- MATH 413 Intro to Combinatorics
- MATH 414 Mathematical Logic
- MATH 482 Linear Programming

Analysis
- MATH 284 Intro Differential Systems
- MATH 285 Intro Differential Equations
- MATH 286
- MATH 424 Honors Real Analysis
- MATH 425 Honors Advanced Analysis
- MATH 441 Differential Equations
- MATH 442 Intro Partial Diff Equations
- MATH 444 Elementary Real Analysis
- MATH 446 Applied Complex Variables
- MATH 447 Real Variables
- MATH 448 Complex Variables
- CS 450 Numerical Analysis
- MATH 484 Nonlinear Programming
- MATH 487 Advanced Engineering Math
- MATH 489 Dynamics & Differential Eqns

Fundamentals
- MATH 347 Fundamental Mathematics

Geometry

Total Hours 19

department website: https://www.math.illinois.edu/
department faculty: Mathematics Faculty (https://math.illinois.edu/directory/faculty/)
overview of college admissions & requirements: Liberal Arts & Sciences (http://catalog.illinois.edu/schools/las/academic-units/)
college website: https://las.illinois.edu/
email: mathadvising@illinois.edu