Mathematics majors must earn a minimum of 40 credits in mathematics subject to the restrictions outlined below. (NOTE: A grade of “C-“ or better is required in all mathematics courses counted toward degree requirements).

A student majoring in mathematics must complete at least 12 upper-level credits in mathematics at UW-Platteville. These credits must be from courses numbered above 3100, with the exception that MATH 2730 Discrete Mathematics may be part of the 12 credits. The 12 credits completed at UW-Platteville may include repeats of courses taken at another campus.

Mathematics Core Requirement (all of the following):
- Math 2640  Calculus and Analytic Geometry I (4 credits)
- Math 2730  Discrete Mathematics (3)
- Math 2740  Calculus and Analytic Geometry II (4)
- Math 2840  Calculus and Analytic Geometry III (4)
- Math 3230  Linear Algebra (3)
- Math 3330  Modern Algebra (3)
- Math 4030  Statistical Methods with Applications (3)
- Math 4430  Advanced Calculus (3)
- Math 4810  Senior Seminar (1)

In-Depth Experience Requirement (at least one of the following):
- Math 3830  Differential Equations II (3)
- Math 4040  Statistics and Probability (3)
- Math 4530  Complex Variables (3)

Mathematics Electives Requirement (at least 9 credits):

All mathematics majors must complete at least 9 additional credits in mathematics. Courses numbered below 2640 or between 3000 and 3100 may not be counted toward this requirement. Courses that will fulfill this requirement are listed on the back of this page.

Courses:  Math ______  Math ______  Math ______

For engineering majors, up to 6 credits of mathematics electives may be selected from the following list to count for the mathematics major:

- o CEE 3100  o EE 3140  o EP 3240  o IE 3530  o ME 3030
- o CEE 3300  o EE 4310  o EP 3640  o ME 3300  o ME 3640

Required Courses Not Included in the 40 Credit Minimum

- Natural Science Requirement (one of the following):
  - Chem 1140  General Chemistry (4)
  - Chem 1450  Chemistry for Engineers (5)
  - Phys 2240  General Physics I (4)

- Computer Science Requirement (one of the following):
  - CoSc 1130  Introduction to Programming (3)
  - CoSc 1430  Programming in C++ (3)
Mathematics courses, other than the Core, that can be used to fulfill the 9 credit Elective Requirement
(If courses are not 3 credits, the number of credits is in parentheses after the course name.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>Math 3130</td>
<td>College Geometry</td>
</tr>
<tr>
<td>Math 3630</td>
<td>Differential Equations I</td>
</tr>
<tr>
<td>Math 3730</td>
<td>Numerical Analysis</td>
</tr>
<tr>
<td>Math 3830</td>
<td>Differential Equations II</td>
</tr>
<tr>
<td>Math 4040</td>
<td>Statistics and Probability</td>
</tr>
<tr>
<td>Math 4320</td>
<td>History and Development of Mathematical Concepts</td>
</tr>
<tr>
<td>Math 4330</td>
<td>Theory of Numbers</td>
</tr>
<tr>
<td>Math 4530</td>
<td>Complex Variables</td>
</tr>
<tr>
<td>Math 4620</td>
<td>Topics in Modern Mathematics (1-3)</td>
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<tr>
<td>Math 4660</td>
<td>Cooperative Field Experience (1-8)</td>
</tr>
<tr>
<td>Math 4920</td>
<td>Independent Study in Mathematics (1-3)</td>
</tr>
</tbody>
</table>