

# MATHEMATICS MAJOR

## Major Requirements

The requirements for a **major in mathematics** are 36 or 41 credits:

Code	Title	Hours
<b>Mathematics Courses</b>		
MATH 121	Calculus I	4
MATH 122	Calculus II	4
MATH 210	Linear Algebra	4
MATH 223	Calculus III	4
Select one of the following groups: <sup>1</sup>		20-25
Group 1:		
MATH 325	Modern Algebra I	
	or MATH 330(Real Analysis I	
16 additional credits numbered 300 or above		
Group 2:		
MATH 205	Introduction to Statistics	
MATH 207	Discrete Mathematics	
MATH 315	Probability and Mathematical Statistics	
MATH 320	Geometry	
MATH 325	Modern Algebra I	
MATH 402	Senior Seminar	
4 additional credits numbered 300 or above		
<b>Total Hours</b>		<b>36-41</b>

<sup>1</sup> For either group: A maximum number of 4 credits in Cooperative Education may be counted toward a major in mathematics.

**Students seeking licensure to teach mathematics** from the state of Minnesota should complete the Common requirements and group 2 requirements, and also must complete a second major in education (<https://catalog.concordiacollege.edu/arts-sciences/education/education-major/>). For additional information about teaching mathematics, see the chair of mathematics or the chair of education.

**Recommended courses** for students interested in graduate school in mathematics include:

Code	Title	Hours
<b>Recommended Courses</b>		
CSC 125	Introduction to Computer Science	4
MATH 325	Modern Algebra I	4
MATH 328	Complex Analysis	4
MATH 330	Real Analysis I	4
MATH 425	Modern Algebra II	2
MATH 430	Real Analysis II	2

### Degree and Graduation Requirements

In addition to the program-specific requirements listed above, all students must complete the graduation requirements specified for their degree. See the Degree and Graduation Requirements (<https://catalog.concordiacollege.edu/undergraduate-academic-community/degree-graduation-requirements/>) section for more information.