

Mathematics

Department Information

- **Department Web Site:**
www.ndsu.edu/math/ (<http://www.ndsu.edu/math/>)
- **Credential Offered:**
B.S.; B.A.; Minor
- **Sample Program Guide:**
catalog.ndsu.edu/programs-study/undergraduate/mathematics/#planofstudytext (<http://catalog.ndsu.edu/programs-study/undergraduate/mathematics/#planofstudytext>)

Major Requirements

Major: Mathematics

Degree Type: B.A. or B.S.

Minimum Degree Credits to Graduate: 120

University Degree Requirements

1. Satisfactory completion of all requirements of the curriculum in which one is enrolled.
2. Earn a minimum total of 120 credits in approved coursework. Some academic programs exceed this minimum.
3. Satisfactory completion of the general education requirements as specified by the university.
4. A minimum institutional GPA of 2.00 based on work taken at NDSU.
5. At least 30 credits must be NDSU resident credits. Resident credits include credits registered and paid for at NDSU.
6. At least 36 credits presented for graduation must be in courses numbered 300 or higher.
7. Students presenting transfer credit must meet the NDSU residence credits and the minimum upper level credit. Of the 30 credits earned in residence, a minimum of 15 semester credits must be in courses numbered 300 or above, and 15 semester credits must be in the student's curricula for their declared major.

For complete information, please refer to the Degree and Graduation Requirements (<http://catalog.ndsu.edu/past-bulletin-archive/2024-25/academic-policies/undergraduate-policies/degree-and-graduation/>) section of this Bulletin.

University General Education Requirements

A list of university approved general education courses and administrative policies are available here (<http://catalog.ndsu.edu/past-bulletin-archive/2024-25/academic-policies/undergraduate-policies/general-education/#genedcoursestext>).

Code	Title	Credits
Category C: Communication		12
ENGL 110	College Composition I	
ENGL 120	College Composition II	
COMM 110	Fundamentals of Public Speaking	
Upper Division Writing [†]		
Category R: Quantitative Reasoning [†]		3
Category S: Science and Technology [†]		10
Category A: Humanities and Fine Arts [†]		6
Category B: Social and Behavioral Sciences [†]		6
Category W: Wellness [†]		2
Category D: Cultural Diversity ^{*†}		
Category G: Global Perspectives ^{*†}		
Total Credits		39

*

Courses for category D & G are satisfied by completing D & G designated courses in another general education category.

†

General education courses may be used to satisfy requirements for both general education and the major, minor, and program emphases, where applicable. Students should carefully review major requirements to determine if specific courses can also satisfy these general education categories.

Code	Title	Credits
Required Mathematics Courses		
MATH 129	Basic Linear Algebra	3
MATH 165	Calculus I	4
MATH 166	Calculus II	4
MATH 265	Calculus III	4
MATH 266	Introduction to Differential Equations	3
MATH 270	Introduction to Abstract Mathematics	3
MATH 329	Intermediate Linear Algebra	3
MATH 346	Metric Space Topology	3
MATH 420	Abstract Algebra I ¹	3
or MATH 620	Abstract Algebra I	
MATH 450	Real Analysis I ¹	3
or MATH 650	Real Analysis I	
MATH 452	Complex Analysis ¹	3
or MATH 652	Complex Analysis	
MATH 483	Partial Differential Equations ¹	3
or MATH 683	Partial Differential Equations	
MATH 491	Seminar	2
Mathematics Electives ¹		
MATH prefix courses numbered 300 or higher, not including those listed above. Students who also major in Math Education may use EDUC 487 (student teaching) towards this requirement. Students approved for the accelerated program should refer to the footnote.		16
Related Required Courses		
A minor or second major in any other program or 15 credits of coursework that includes at least two 300-level (or higher) courses in another discipline.		15
Total Credits		72

¹

Accelerated Program: Students approved for the accelerated program may complete MATH prefix courses numbered 600-689 toward this math elective section of the major. No more than 15 graduate credits will be applied to the undergraduate math degree.

Program Notes

- Except for courses offered only as pass/fail grading, no course may be taken Pass/Fail.
- A grade of 'C' or better is required in all MATH prefix courses.