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# **Mathematics and Statistics**

#### Department Information

· Department Location:

Minard Hall or 221 Morrill Hall

· Department Phone:

701-231-8171

· Department Web Site:

www.ndsu.edu/math/ or www.ndsu.edu/statistics/ (http://www.ndsu.edu/math/ or www.ndsu.edu/statistics/)

· Credential Offered:

B.S.; B.A.

· Sample Program Guide:

catalog.ndsu.edu/programs-study/undergraduate/mathematics-statistics/ (http://catalog.ndsu.edu/programs-study/undergraduate/mathematics-statistics/)

# **Major Requirements**

# **Major: Mathematics & Statistics**

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

**Total Credits** 

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 36 credits presented for graduation must be in courses numbered 300 or higher.
- 6. Transfer Students: Must earn a minimum of 60 credits from a baccalaureate-degree granting or professional institution.
  - a. Of these 60, at least 36 must be NDSU resident credits as defined in #7.
  - b. Within the 36 resident credits, a minimum of 15 must be in courses numbered 300 or higher and 15 credits in the major field of study.
- 7. At least 36 credits must be NDSU resident credits. Resident credits include credits registered and paid for at NDSU.

For complete information, please refer to the Degree and Graduation Requirements (http://catalog.ndsu.edu/past-bulletin-archive/2022-23/academic-policies/undergraduate-policies/degree-and-graduation/) section of this Bulletin.

# **University General Education Requirements**

Code	Title	Credits
Communication (C)		12
ENGL 110	College Composition I	
ENGL 120	College Composition II	
COMM 110	Fundamentals of Public Speaking	
Upper Division Writing <sup>†</sup>		
Quantitative Reasoning (R) <sup>†</sup>		3
Science and Technology (S) †		10
Humanities and Fine Arts (A) †		6
Social and Behavioral Sciences (B)		6
Wellness (W) <sup>†</sup>		2
Cultural Diversity (D) *†		
Global Perspectives (G) *†		

- \* May be satisfied by completing 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.
- A list of university approved general education courses and administrative policies are available here (http://catalog.ndsu.edu/past-bulletin-archive/2022-23/academic-policies/undergraduate-policies/general-education/#genedcoursestext).

#### **College Requirements**

Code	Title	(	Credits
Bachelor of Arts (BA) Degree foreign language.	- An additional 12 cro	edits Humanities and Social Sciences and proficiency at the second year level in a modern	12
		*	

Bachelor of Science (BS) Degree - An additional 6 credits in Humanities or Social Sciences

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\* Humanities and Social Sciences may be fulfilled by any course having the following prefix: ADHM, ANTH, ARCH, ART, CJ, CLAS, COMM, ECON, ENGL, FREN, GEOG, GERM, HDFS, HIST, LA, LANG, MUSC, PHIL, POLS, PSYC, RELS, SOC, SPAN, THEA, WGS, or any course from the approved list of general education courses in humanities and social sciences (general education categories A and B). These credits must come from outside the department of the student's major.

### **Mathematics & Statistics Major Requirements**

A grade of 'C' or better is required in all MATH and STAT prefix courses.

Code	Title	Credits
Math Major Core Requirements		
MATH 129	Basic Linear Algebra	3
MATH 165	Calculus I (May satisfy general education category R)	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 450	Real Analysis I	3
MATH 491	Seminar	2
Mathematics Electives	Any 300-400 level	3
Statistics Major Requirements		
STAT 330	Introductory Statistics	3
STAT 461	Applied Regression Models	3
STAT 462	Introduction to Experimental Design (Capstone)	3
STAT 467	Probability and Mathematical Statistics I	3
STAT 468	Probability and Mathematical Statistics II	3
Statistics Electives	400 level other than those listed above	18
Related Required Courses:		
CSCI 160	Computer Science I	4
CSCI 161	Computer Science II	4
Total Credits		76