

Bachelor of Arts/Science in Mathematics

Program Curriculum

120 credits

DSU General Education Requirements

All DSU General Education requirements must be fulfilled. A previously earned degree may fulfill those requirements, but courses must be equivalent to DSU's minimum General Education standards in American Institutions, English, and Mathematics.

Code	Title	Hours
General Education Core Requirements (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		
English		3-7
Mathematics		3-5
American Institutions		3-6
Life Sciences		3-10
Physical Sciences		3-5
Laboratory Science		0-1
Fine Arts		3
Literature/Humanities		3
Social & Behavioral Sciences		3
Exploration		3-5

Code	Title	Hours
Bachelor of Arts: Foreign Language Requirement		3-16

Complete one of the following:

- Complete 16 credits in a single foreign language, through earned credit (grade C or higher), credit by examination, or vertical credit from the courses listed on the GE Foreign Language Requirement page ¹
- Complete a 2020 or higher foreign language course (grade C or higher)
- Complete a 3060 foreign language course listed below (grade C or higher)
- Receive 16 transfer credits for GEFL 1000 (8) and GEFL 2000 (8) in a single foreign language (grade C or higher)

OR

Complete a 1020 course listed below in a second foreign language (grade C or higher) AND one of the following:

1. In a language not taught at DSU, receive 12 FLATS exam credits for FLAT 1000 (8) and FLAT 2000 (4)
or
2. In a language not taught at DSU, receive 12 transfer credits articulated as GEFL 1000 (8) and GEFL 2000 (4) (all grade C or higher)

OR

Available only to students who are nonnative English speakers, complete one of the following:

- Complete 16 credits of ESL courses listed below (grade B or higher)
- Complete ESL 2750 or ESL 2760 (grade B or higher).
- Submit one of the following test scores required for unconditional DSU admission: TOEFL (61 iBT, 173 CBT, or 500 PBT); or Michigan (70); or USU-IELE equivalent score. Other tests may be accepted for admission to DSU but will not fulfill this requirement. Official scores must be submitted to the Registrar's Office.

Total Hours	3-16
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¹ General Education Foreign Language Classes may be found on the General Education page (catalog.dixie.edu/programs/generaleducation/#foreignlanguage requirementstext).

Mathematics Core Requirements

Code	Title	Hours
MATH 1210	Calculus I	4
MATH 1220	Calculus II	4
MATH 2200	Discrete Mathematics	3
MATH 2210	Multivariable Calculus	4

MATH 2270	Linear Algebra	3
MATH 2280	Ordinary Differential Equation	3
MATH 3200	Introduction to Analysis I	3
MATH 3400	Probability & Statistics	3
MATH 3900	Number Theory	3
MATH 4000	Foundations of Algebra	3
MATH 4900	Senior Capstone Seminar	3

Mathematics Elective Requirements

Code	Title	Hours
Complete 12 credits from the following:		
MATH 3000	History of Mathematics	3
MATH 3100	Euclidean / Non-Euclidean Geom	3
MATH 3150	Introduction to Partial Differential Equations	3
MATH 3210	Introduction to Analysis II	3
MATH 3500	Numerical Analysis	3
MATH 4010	Abstract Algebra	3
MATH 4100	Introduction to Topology	3
MATH 4200	Introduction to Complex Analysis	3
MATH 4890R	Independent Research	1-3

Mathematics Program Requirements

Code	Title	Hours
CS 1400	Fundamentals of Programming	3
PHYS 2210 & PHYS 2215	Physics/Scientists Engineers I and Physics/Scientists Engineers Lab	5
PHYS 2220 & PHYS 2225	Physics/Scientists EngineersII and Physics/Scientists Engineers II Lab	5

Graduation Requirements

1. Complete a minimum of 120 college-level credits (1000 and above).
2. Complete at least 40 upper-division credits (3000 and above).
3. Complete at least 30 upper-division credits at DSU for institutional residency
4. Grade C or higher (not C-) required in each Core Discipline Requirement, Mathematics Required Elective, and Mathematics Program Requirement course.
5. Cumulative GPA 2.0 or higher

Graduation Plan

Course	Title	Hours
1st Year		
Fall Semester		
First Year Recommended Elective		2
MATH 1210	Calculus I	4
General Education (American Institutions) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
General Education (Fine Arts) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
General Elective		3
Hours		15
Spring Semester		
MATH 1220	Calculus II	4
ENGL 1010	Introduction to Writing (EN)	3
General Education (Life Sciences) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
General Education (Social & Behavioral Sciences) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3

General Elective		2
Hours		15
2nd Year		
Fall Semester		
MATH 2200	Discrete Mathematics	3
MATH 2270	Linear Algebra	3
ENGL 2010	Intermediate Writing Selected Topics: (EN)	3
PHYS 2210 & PHYS 2215	Physics/Scientists Engineers I and Physics/Scientists Engineers Lab	5
General Elective		1
Hours		15
Spring Semester		
MATH 2210	Multivariable Calculus	4
MATH 2280	Ordinary Differential Equation	3
CS 1400	Fundamentals of Programming	3
PHYS 2220 & PHYS 2225	Physics/Scientists EngineersII and Physics/Scientists Engineers II Lab	5
Hours		15
3rd Year		
Fall Semester		
MATH 4000	Foundations of Algebra	3
MATH Elective (Approved MATH Elective)		3
MATH Elective (Approved MATH Elective)		3
General Education (Exploration) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
General Elective		3
Hours		15
Spring Semester		
MATH 3400	Probability & Statistics	3
MATH Elective (MATH Elective (see list))		3
Upper Division Elective		3
General Elective		3
General Elective		3
Hours		15
4th Year		
Fall Semester		
MATH 3200	Introduction to Analysis I	3
MATH Elective (Approved MATH Elective)		3
Upper Division Elective		3
Upper Division Elective		3
General Elective		3
Hours		15
Spring Semester		
MATH 3900	Number Theory	3
MATH 4900	Senior Capstone Seminar	3
General Education (Literature/Humanities) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
Upper Division Elective		3
Upper Division Elective		3
Hours		15
Total Hours		120

*NOTE: Please see Math Department Advisor for degree plan