

# 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
<b>General Education Core Requirements</b> (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		18
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
<b>Bachelor of Arts: Foreign Language Requirement</b>		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 <sup>1</sup>
- 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 1010 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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<sup>1</sup> General Education Foreign Language Classes may be found on the General Education page (catalog.dixie.edu/programs/generaleducation/#foreignlanguagerequirementtext).

### Mathematics Core Requirements

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

MATH 2270	Linear Algebra	3
MATH 2280	Ordinary Differential Equations	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 (PS) and Physics/Scientists Engineers Lab (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
<b>1st Year</b>		
<b>Fall Semester</b>		
First Year Recommended Elective		2
MATH 1210	Calculus I (MA)	4
General Education (American Institutions) ( <a href="http://catalog.dixie.edu/programs/generaleducation/#gerequirementstext">catalog.dixie.edu/programs/generaleducation/#gerequirementstext</a> )		3
General Education (Fine Arts) ( <a href="http://catalog.dixie.edu/programs/generaleducation/#gerequirementstext">catalog.dixie.edu/programs/generaleducation/#gerequirementstext</a> )		3
General Elective		3
Hours		15
<b>Spring Semester</b>		
MATH 1220	Calculus II (MA)	4
ENGL 1010	Introduction to Writing (EN)	3
General Education (Life Sciences) ( <a href="http://catalog.dixie.edu/programs/generaleducation/#gerequirementstext">catalog.dixie.edu/programs/generaleducation/#gerequirementstext</a> )		3
General Education (Social & Behavioral Sciences) ( <a href="http://catalog.dixie.edu/programs/generaleducation/#gerequirementstext">catalog.dixie.edu/programs/generaleducation/#gerequirementstext</a> )		3

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

**\*NOTE:** Please see Math Department Advisor for degree plan