South Dakota State University

Bachelor of Science
Major: Mathematics
2022-2023 Sample 4-Year Plan
Total Degree Requirements: 120 credits

Student _____ **Student ID#** _____ **Student Phone #** _____

Advisor _____ **Minimum GPA** 2.00 **Minor/Career Interest(s)** _____

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the Undergraduate Catalog.

First Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ENGL 101	Composition I (SGR #1)	p. Placement	3		
SGR #4	Arts & Humanities/Diversity		3		
MATH 123	Calculus I (SGR #5)	p. Placement	4		
MATH 198	The Mathematics Profession		1	F	
SGR #6	Natural Sciences		3		
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
SGR #1	Written Communication	p. ENGL 101	3		
MATH 125	Calculus II	p. MATH 123	4		
SGR #2	Oral Communication		3		
SGR #3	Social Sciences/Diversity		3		
SGR #6	Natural Sciences		3		
		Total Credit Hours	16		

Second Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 225	Calculus III	p. MATH 125	4		
MATH 230	Sophomore Seminar	p. MATH 125	1	F	
MATH 250	Introduction to Linear Algebra and Proof	p. MATH 123	3		
STAT 382	Probability and Statistics I	p. MATH 125	3	F	
General Electives			4		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 253	Logic, Sets, and Proof	p. MATH 250	4		
MATH 321 or MATH 316	Differential Equations or Discrete Math	MATH 321: p. MATH 125; MATH 316: p. MATH 253 or MATH 250	3		
SGR #3	Social Sciences/Diversity		3		
SGR #4	Arts & Humanities/Diversity		3		
MATH/STAT 300-400 Level Electives			3		
		Total Credit Hours	16		

Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Take one of					

Information Subject to Change. This is not a contract.

p. = Course Prerequisite
Semester: F = Fall, S = Spring, SU = Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 315 MATH 413 or MATH 425	Linear Algebra Abstract Algebra I or Real Analysis I	p. MATH 250 p. MATH 253 p. MATH 253	3 or 3 or 3		
MATH/STAT 300-400 Level Electives			3		
General Electives			9		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Take one of MATH 315 MATH 413 or MATH 425	 Linear Algebra Abstract Algebra I or Real Analysis I	 p. MATH 250 p. MATH 253 p. MATH 253	 3 or 3 or 3		
MATH/STAT 300-400 Level Electives			3		
General Electives			9		
		Total Credit Hours	15		

Fourth Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 401	Senior Capstone		2		
MATH/STAT 300-400 Level Electives			3		
General Electives			10		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 401	Senior Capstone		2		
MATH/STAT 300-400 Level Electives			2		
General Electives			10		
		Total Credit Hours	14		

Comments/Notes

The Department of Mathematics and Statistics has additional plans of study in different focus areas including Applied Mathematics, Data Science, Teaching, and Actuarial/Financial Mathematics. Please contact your advisor for additional information.

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the Honors program requirements.

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