SOUTH DAKOTA STATE UNIVERSITY

Bachelor of Science
Major: Mathematics
2018-2019 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		
INFO 101	Introduction to Informatics (SGR #6)		3		
MATH 123	Calculus I (SGR #5)	p. Placement	4		
MATH 198	The Mathematics Profession		1	F	
PHYS 111-111L or PHYS 211-211L or PHYS 213-213L or CHEM 106-106L or CHEM 112-112L or BIOL 151-151L	Introduction to Physics I and Lab (SGR #6) or University Physics I and Lab (SGR #6) or University Physics II and Lab (SGR #6) or Chemistry Survey and Lab (SGR #6) or General Chemistry I and Lab (SGR #6) or General Biology I and Lab (SGR #6)		4		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ENGL 201	Composition II (SGR #1)	p. ENGL 101	3		
MATH 125	Calculus II	p. MATH 123	4		
SGR #2	Oral Communication		3		
SGR #3	Social Sciences/Diversity		3		
SGR #4	Arts & Humanities/Diversity		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 253	Logic, Sets, and Proof	p. MATH 125	3		
STAT 382	Probability and Statistics I	p. MATH 125	3	F	
General Electives			3		
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 315	Linear Algebra	p. MATH 253	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		

Information Subject to Change. This is not a contract.

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

Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 413	Abstract Algebra I	p. MATH 315	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
MATH 425	Real Analysis I	p. MATH 125 and MATH 315	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 Computational Science and Financial Engineering. Please contact your advisor for additional information.

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Semester: F = Fall, S = Spring, SU = Summer