



Associate of Science

Major: Data Science

2018-2019 Sample 2-Year Plan

Total Degree Requirements: 60 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 – Option 1, stacks into B.S. in Data Science or B.S. in Mathematics with Data Science Specialization

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		
SGR #2	Oral Communication		3		
STAT 101	Introduction to Data Science		3	F	
		Total Credit Hours	16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 150	Computer Science I	p. MATH 102 or 115 or 123	3		
ENGL 201 or ENGL 277	Composition II (SGR #1) or Technical Writing in Engineering (SGR #1)	p. ENGL 101	3		
MATH 125	Calculus II	p. MATH 123	4		
SGR #3	Social Sciences/Diversity		3		
SGR #4	Arts & Humanities/Diversity		3		
		Total Credit Hours	16		

Second Year - Option 1, stacks into B.S. in Data Science or B.S. in Mathematics with Data Science Specialization

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 253	Logic, Sets, and Proof	p. MATH 125	3		
STAT 382	Probability and Statistics I	p. MATH 125	3	F	
SGR #3	Social Sciences/Diversity		3		
General Electives	General Electives		5		
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
STAT 410	SAS Programming		3	S	
STAT 415	R Programming	p. INFO 101 or CSC 150	3	S	
STAT 482	Probability and Statistics II	p. MATH 125	3	S	
General Electives	General Electives		5		
		Total Credit Hours	14		



First Year – Option 2, stacks into other Bachelor’s Degrees

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ENGL 101	Composition I (SGR #1)		3		
INFO 101	Introduction to Informatics (SGR #6)		3		
MATH 121/L	Survey of Calculus and Lab (SGR #5)	p. Placement	5		
STAT 101	Introduction to Data Science		3	F	
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 150	Computer Science I	p. MATH 102 or 115 or 123	3		
ENGL 201 or ENGL 277	Composition II (SGR #1) or Technical Writing in Engineering (SGR #1)	p. ENGL 101	3		
SGR #3	Social Sciences/Diversity		3		
SGR #4	Arts & Humanities/Diversity		3		
STAT 281	Introduction to Statistics	p. MATH 121/L	3		
		Total Credit Hours	15		

Second Year - Option 2, stacks into other Bachelor’s Degrees

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 250	Mathematics for Computer Science	p. MATH 121/L	3		
STAT 441	Statistical Methods II	p. STAT 281	3		
SGR #2	Oral Communication		3		
SGR #3	Social Sciences/Diversity		3		
General Electives	General Electives		4		
		Total Credit Hours	16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
STAT 410	SAS Programming		3	S	
STAT 415	R Programming	p. INFO 101 or CSC 150	3	S	
STAT 442	Exploratory Data Analysis	p. STAT 441	3	S	
General Electives	General Electives		6		
		Total Credit Hours	15		

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.

If progressing on to the M.S. in Data Science or Statistics, consider taking STAT 451 and 460 as STAT 551 and 560, and six other credits of graduate statistics courses as General Electives during the fourth year.