



The Bachelor of Science (B.S.) in Statistics and Data Science For Catalog Year 2022

(for the B.A. plan, see the back of this page)

THIS IS A SAMPLE PROGRAM. EACH STUDENT SHOULD CONSULT A DEPARTMENT ADVISOR TO PREPARE A PROGRAM THAT FITS THEIR INDIVIDUAL BACKGROUND AND ACADEMIC NEEDS.

	<u>Fall Semester</u>		<u>Spring Semester</u>
Freshman Year			
MATH 122A & B	5	MATH 129	3
ENGL 101 or 107 or 109H	3	CSC 110 or ISTA 130 ¹	4
GE Core	3	ENGL 102 or 108	3
GE Core	3	GE Core	3
UNIV 101	1	GE Core	3
DATA 195M ²	1		
	Total		Total
	16		16
Sophomore Year			
MATH 223	4	DATA 363	3
MATH 313	3	ISTA 322 ⁶	3
Lab Science ³	4	Lab Science ³	4
Second Language	4	Second Language	4
		GE Core	3
	Total		Total
	15		17
Junior Year			
DATA 375	3	SDS major elective ⁵	3
MATH 464	3	MATH 466	3
Minor Course ⁴	3	Minor Courses ⁴	6
GE Core	3	Statistics Application Course ³	3
GE Core	3	UNIV 301	1
	Total		Total
	15		16
Senior Year			
DATA 467	3	DATA 498A	3
Minor Courses ⁴	6	Minor Course ⁴	3
Elective Course	3	Elective Courses	7
	Total		Total
	12		13

This degree program requires at least 120 total units, including 42 upper division units (300-400 level)

¹ A Python programming course is required for the SDS major. Students should plan to take this course early, before DATA 363.

² DATA 195M is an optional one-unit colloquium for new majors. Other programs, including Honors, ASEMS, and more, may require 1 unit colloquia in certain semesters.

³ BS degree requirements for Statistics & Data Science Majors: 1. Laboratory Science: Two of the following lab science courses are required to satisfy requirements: CHEM 141&143, 142&144; CHEM 151, 152; CHEM 161&163, 162&164; MCB 181R&181L, ECOL 182R&182L; PHYS 141, 161H, 142, 241, 162H, 261H; GEOS 251, 302, 304, 308, 322; PSIO 201, 202. Note that for courses with separate registration for lecture and lab, BOTH components must be completed. 2. Application Course: For the B.S. degree, students must complete at least 3 units of course work outside the Mathematics Department that require calculus or statistics as a corequisite or prerequisite. See the current official catalog requirements for a list of available courses. 3. Second Language: Second-semester proficiency in a second language is required for the BS degree.

⁴ To declare your minor, contact an advisor from the appropriate department.

⁵ For major elective course options, see the major handbook, website, or an academic advisor.

⁶ Beginning in 2023-24, we plan to require ISTA 322 or similar Data Engineering course as pre- or co-requisite to DATA 363. We recommend that all SDS majors take the course regardless to learn skills important in data science.

See an academic advisor if you have questions regarding the Mid-Career Writing Assessment requirement.



The Bachelor of Arts (B.A.) in Statistics and Data Science For Catalog Year 2022

(for the B.S. plan, see the back of this page)

THIS IS A SAMPLE PROGRAM. EACH STUDENT SHOULD CONSULT A DEPARTMENT ADVISOR TO PREPARE A PROGRAM THAT FITS THEIR INDIVIDUAL BACKGROUND AND ACADEMIC NEEDS.

	<u>Fall Semester</u>		<u>Spring Semester</u>
Freshman Year			
MATH 122A & B	5	MATH 129	3
ENGL 101 or 107 or 109H	3	CSC 110 or ISTA 130 ¹	4
GE Core	3	ENGL 102 or 108	3
GE Core	3	GE Core	3
UNIV 101	1	GE Core	3
DATA 195M ²	1		
	Total		Total
	16		16
Sophomore Year			
MATH 223	4	DATA 363	3
MATH 313	3	ISTA 322 ⁵	3
GE Core	3	GE Core	3
Second Language	4	GE Core	3
		Second Language	4
	Total		Total
	14		16
Junior Year			
DATA 375	3	SDS major elective ⁴	3
MATH 464	3	MATH 466	3
Minor Course ³	3	Minor Course ³	3
Second Language	4	Second Language	4
UNIV 301	1	Elective Course	3
	Total		Total
	14		16
Senior Year			
DATA 467	3	DATA 498A	3
Minor Courses ³	6	Minor Courses ³	6
Elective Courses	7	Elective Course	3
	Total		Total
	16		12

This degree program requires at least 120 total units, including 42 upper-division units (300-400 level)

¹ A Python programming course is required for the SDS major. Students should plan to take this course early, before DATA 363

² DATA 195M is an optional one-unit colloquium for new majors. Other programs, including Honors, ASEMS, and more, may require 1 unit colloquia in certain semesters.

³ To declare your minor, contact an advisor from the appropriate department.

⁴ For major elective course options, see the major handbook, website, or an academic advisor.

⁵ Beginning in 2023-24, we plan to require ISTA 322 or similar Data Engineering course as pre- or co-requisite to DATA 363.

We recommend that all SDS majors take the course regardless to learn skills important in data science.

NOTES: Fourth-semester proficiency in a second language is required for the BA degree.

See an academic advisor if you have questions regarding the Mid-Career Writing Assessment requirement.