



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 ² | 3 |
| GE Core | 3 | GE Core | 3 |
| UNIV 101 | 1 | GE Core | 3 |
| DATA 195M ³ | 1 | | |
| | Total | | Total |
| | 16 | | 16 |
| Sophomore Year | | | |
| MATH 223 | 4 | DATA 363 | 3 |
| MATH 313 | 3 | ISTA 322 ⁴ | 3 |
| Lab Science ⁵ | 4 | Lab Science | 4 |
| Second Language ⁶ | 4 | Second Language | 4 |
| | | GE Core | 3 |
| | Total | | Total |
| | 15 | | 17 |
| Junior Year | | | |
| DATA 375 | 3 | SDS major elective ⁷ | 3 |
| MATH 464 | 3 | MATH 466 | 3 |
| Minor Course ⁸ | 3 | Minor Courses | 6 |
| GE Core | 3 | Elective Course | 3 |
| GE Core | 3 | UNIV 301 | 1 |
| | Total | | Total |
| | 15 | | 16 |
| Senior Year | | | |
| DATA 467 | 3 | DATA 498A | 3 |
| Minor Courses | 6 | Minor Course | 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 and is a prerequisite for DATA 363.

² See an academic advisor if you have questions regarding the Mid-Career Writing Assessment requirement.

³ 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.

⁴ Beginning in 2023-24, ISTA 322 or a similar Data Engineering course is a co-requisite to DATA 363. ISTA 322 also satisfies the application course requirement for the BS degree.

⁵ BS Student must complete two of the following lab science courses 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.

⁶ Second-semester proficiency in a second language is required for the BS degree.

⁷ For major elective course options, see the major handbook, website, or an academic advisor.

⁸ To declare your minor, contact an advisor from the appropriate department.



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 ² | 3 |
| GE Core | 3 | GE Core | 3 |
| UNIV 101 | 1 | GE Core | 3 |
| DATA 195M ³ | 1 | | |
| | Total 16 | | Total 16 |
| Sophomore Year | | | |
| MATH 223 | 4 | DATA 363 | 3 |
| MATH 313 | 3 | ISTA 322 ⁴ | 3 |
| GE Core | 3 | GE Core | 3 |
| Second Language ⁵ | 4 | GE Core | 3 |
| | | Second Language | 4 |
| | Total 14 | | Total 16 |
| Junior Year | | | |
| DATA 375 | 3 | SDS major elective ⁶ | 3 |
| MATH 464 | 3 | MATH 466 | 3 |
| Minor Course ⁷ | 3 | Minor Course | 3 |
| Second Language | 4 | Second Language | 4 |
| UNIV 301 | 1 | Elective Course | 3 |
| | Total 14 | | Total 16 |
| Senior Year | | | |
| DATA 467 | 3 | DATA 498A | 3 |
| Minor Courses | 6 | Minor Courses | 6 |
| Elective Courses | 7 | Elective Course | 3 |
| | Total 16 | | Total 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 and is a prerequisite for DATA 363.

² See an academic advisor if you have questions regarding the Mid-Career Writing Assessment requirement.

³ 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.

⁴ Beginning in 2023-24, ISTA 322 or a similar Data Engineering course is a co-requisite to DATA 363.

⁵ Fourth-semester proficiency in a second language is required for the BA degree.

⁶ For major elective course options, see the major handbook, website, or an academic advisor.

⁷ To declare your minor, contact an advisor from the appropriate department.