

Bachelor of Science in Statistics Data Science Concentration

| TOTAL UNITS TO DEGREE: | | | 120 |
|---|----------------------|---|-------|
| Course | Course Title | | Units |
| First Semester (suggested timeline for GE; adjust as needed for major) | | | |
| E | GS 101 | Freshman Studies | 1 |
| A1 | COMM 100 | Communication | 3 |
| B4 / LD Major | MATH 130 | Calculus I | 3 |
| C1 | | | 3 |
| D1 | | | 3 |
| TOTAL: | | | 13 |
| Second Semester (suggested timeline for GE; adjust as needed for major) | | | |
| E | GS 102 | Freshman Studies | 1 |
| A2 | | | 3 |
| C2 | | | 3 |
| D2 | | | 3 |
| LD Major elective | CS 100 | Programming for non-majors | 3 |
| TOTAL: | | | 16 |
| Third Semester (suggested timeline for GE; adjust as needed for major) | | | |
| E | LIB 101 | Information Literacy | 1 |
| A3 | | | 3 |
| C3 | | | 3 |
| B2/B3 | | | 3 |
| Writing II/WID (2nd Comp) | | | 3 |
| LD Major | CS 200 | Advanced Programming for Everyone | 3 |
| TOTAL: | | | 16 |
| Fourth Semester (suggested timeline for GE; adjust as needed for major) | | | |
| D3 | | | 3 |
| B1/B3 | | | 3 |
| Code 1 | | | 3 |
| Major (intro core choose 1) elective | STAT 315 | Exploring and Analyzing Data | 3 |
| TOTAL: | | | 15 |
| Fifth Semester (suggested timeline for GE; adjust as needed for major) | | | |
| B6 | | | 3 |
| UD Major | STAT 330 | Statistical Methods | 3 |
| Code 2 | | | 3 |
| UD Major | STAT 320 or STAT 321 | | 3 |
| Concentration Elective | CS 300 | | 3 |
| TOTAL: | | | 15 |
| Sixth Semester (suggested timeline for GE; adjust as needed for major) | | | |
| D4 | | | 3 |
| UD Major | STAT 331 | Introduction to Analysis of Variance | 3 |
| UD Elective | STAT 450 | R Programming | 3 |
| UD Major | STAT 432 | Introduction to Linear Regression | 3 |
| UD Major | STAT 495 | SAS Programming for Data Analysis | 3 |
| TOTAL: | | | 15 |
| Seventh Semester (suggested timeline for GE; adjust as needed for major) | | | |
| C4 | | | 3 |
| UD Elective | STAT 351 | Sampling Procedures for Surveys | 3 |
| Concentration Elective | STAT 451 | Introduction to Data Visualization | 3 |
| Concentration Elective | MATH 225 | Numerical Algorithms and Linear Algebra | 3 |
| Concentration Elective | | | 3 |
| TOTAL: | | | 15 |
| Eighth Semester | | | |
| UD Elective | STAT 452 | Introduction to Statistical Learning | 3 |
| Concentration Elective | | | 3 |
| Concentration Elective | | | 3 |
| Elective | | | 3 |
| Elective | | | 3 |
| TOTAL: | | | 15 |

3 units Code may be double-counted with LD GE; and 3 units Writing II may be double-counted with Major.

Please enter all courses required for the major, including any prerequisites. If there are any General Education courses that are recommended to complement the major they should be included in the table below, and listed in the road map.

General Education and University Requirements-Suggested Courses

- A1. COMM 100
- A2. second semester
- A3. third semester
- B1. fourth semester
- B2. third semester
- B3. fourth semester
- B4. first semester
- C1. first semester
- C2. second semester
- C3. third semester
- D1. first semester
- D2. second semester
- D3. fourth semester
- E. GS 101, GS 102, LIB 101
- Code 1. fourth semester
- Code 2. fifth semester
- Writing II/WID (2nd Comp) third semester
- B6. fifth semester
- C4. seventh semester
- D4. sixth semester