

# STATISTICS: DATA SCIENCE, BS

## Example Plan of Study

### Finish in Four Plan of Study

The plan below is an **example** of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

| Course   | Title  | Hours     |
|--|--|-----------|
| <b>Freshman</b>  |  |           |
| <b>Fall</b>  |  |           |
| UNIV 1111  | First Year Seminar   | 1         |
| MATH 2144  | Calculus I (Q)   | 4         |
| MSIS 2103  | Business Data Science Technologies   | 3         |
| General Education and Elective courses (MSIS 2103 recommended) |  | 7         |
| <b>Hours</b>   |  | <b>15</b> |
| <b>Spring</b>  |  |           |
| MATH 2153  | Calculus II (Q)  | 3         |
| General Education courses                                      |  | 12        |
| <b>Hours</b>   |  | <b>15</b> |
| <b>Sophomore</b>   |  |           |
| <b>Fall</b>  |  |           |
| MATH 2163  | Calculus III   | 3         |
| STAT 4013  | Statistical Methods I (Q)  | 3         |
| MSIS 3103  | End User Database Systems Design and Management                                  | 3         |
| General Education courses                                      |  | 6         |
| <b>Hours</b>   |  | <b>15</b> |
| <b>Spring</b>  |  |           |
| MATH 3013  | Linear Algebra (Q)   | 3         |
| STAT 4023  | Statistical Methods II   | 3         |
| CS 1113<br>or CS 1103  | Computer Science I (Q)<br>or Computer Programming (Q)                            | 3         |
| College and Elective courses                                   |  | 6         |
| <b>Hours</b>   |  | <b>15</b> |
| <b>Junior</b>  |  |           |
| <b>Fall</b>  |  |           |
| STAT 4193  | SAS and R Programming  | 3         |
| CS 2133<br>or MATH 2233  | Computer Science II<br>or Differential Equations                                 | 3         |
| MSIS 3223  | Principles of Data Analytics   | 3         |
| Major, College, and Elective courses                           |  | 6         |
| <b>Hours</b>   |  | <b>15</b> |
| <b>Spring</b>  |  |           |
| STAT 4043  | Applied Regression Analysis  | 3         |
| MSIS 3233  | Management Science - Prescriptive Analytics                                      | 3         |
| Major Elective   |  | 3         |
| College and Elective courses                                   |  | 6         |
| <b>Hours</b>   |  | <b>15</b> |
| <b>Senior</b>  |  |           |
| <b>Fall</b>  |  |           |
| STAT 4203  | Mathematical Statistics I  | 3         |
| CS 3513<br>or CS 4513  | Numerical Methods for Digital Computers<br>or Introduction to Numerical Analysis | 3         |
| STAT 4981  | Statistics Capstone I (if Grad School bound)                                     | 1         |
| 3 hours from Data Science courses                              |  | 3         |

|                              |  |     |
|------------------------------|--|-----|
| Major Elective               |  | 3   |
| College and Elective courses |  | 2   |
|                              | Hours                                      | 15  |
| Spring                       |  |     |
| STAT 4213                    | Mathematical Statistics II                 | 3   |
| STAT 4991                    | Statistics Capstone II (if Industry bound) | 1   |
| STAT 4463                    | Statistical Machine Learning with R        | 3   |
| Elective courses             |  | 8   |
|                              | Hours                                      | 15  |
|                              | Total Hours                                | 120 |