Mathematics: Data Science, BS

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# MATHEMATICS: 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 |
|--------------------------------|--|-------|
| Freshman                       |  |       |
| Fall                           |  |       |
| UNIV 1111                      | First Year Seminar                       | 1     |
| ENGL 1113                      | Composition I                            | 3     |
| MATH 2144                      | Calculus I (Q)                           | 4     |
| CS 1113                        | Computer Science I (Q)                   | 3     |
| General Education              |  | 4     |
|                                | Hours                                    | 15    |
| Spring                         |  |       |
| ENGL 1213                      | Composition II                           | 3     |
| MATH 2153                      | Calculus II (Q)                          | 3     |
| CS 2133                        | Computer Science II                      | 3     |
| General Education or Electives |  | 6     |
|                                | Hours                                    | 15    |
| Sophomore                      |  |       |
| Fall                           |  |       |
| MATH 2163                      | Calculus III                             | 3     |
| MATH 3013                      | Linear Algebra (Q)                       | 3     |
| PHYS 1114                      | College Physics I (LN)                   | 4     |
| or PHYS 2014                   | or University Physics I (LN)             |       |
| General Education, Col         | llege, Major, or Electives               | 5     |
|                                | Hours                                    | 15    |
| Spring                         |  |       |
| PHYS 1214                      | College Physics II (LN)                  | 4     |
| or PHYS 2114                   | or University Physics II (LN)            |       |
| MATH 3013                      | Linear Algebra (Q)                       | 3     |
| MATH 2233                      | Differential Equations                   | 3     |
| General Education, Col         | llege, Major, or Electives               | 5     |
|                                | Hours                                    | 15    |
| Junior                         |  |       |
| Fall                           |  |       |
| MATH 3583                      | Introduction to Mathematical Modeling    | 3     |
| MATH 3613                      | Introduction to Abstract Algebra         | 3     |
| STAT 4203                      | Mathematical Statistics I                | 3     |
| General Education, Col         | llege, Major, or Electives               | 6     |
|                                | Hours                                    | 15    |
| Spring                         |  |       |
| MATH 4663                      | Combinatorics                            | 3     |
|                                | llege, Major, or Electives               | 12    |
|                                | Hours                                    | 15    |
| Senior                         |  | 13    |
| Fall                           |  |       |
| CS 3353                        | Data Structures and Algorithm Analysis I | 3     |
|                                | Data Structures and Algorithm Analysis I |       |
| General Education, Col         | llege, Major, or Electives               | 12    |
|                                | Hours                                    | 15    |

#### Spring

| CS 4433   | Introduction to Database Systems |    | 3  |
|---|----------------------------------|----|----|
| General Education, College, Major, or Electives |                                  |    | 2  |
|   | Hours                            | 1  | 5  |
|   | Total Hours                      | 12 | 20 |