# Springfield College
# Sequencing Guide
# Data Science (DSCI) ▼ 2026-2027

*Requirements are subject to change and may not be offered when listed. Use your online degree audit to verify your progress with your advisor*

## Core Curriculum Requirements, Electives, and College Requirements

*In addition to the major requirements listed below, you will need to fill the following Core Curriculum categories:*

- 100-level Wellness & Physical (1 cr)
- 200-level Wellness & Physical (1 cr)
- 300-level Wellness & Physical (1 cr)
- Literature (3 cr)
- Scientific Reasoning (4 cr)
- Aesthetic Expression (3 cr)
- Historical and Social (3 cr)
- Themed Explorations (9 cr)
  - 3 different prefixes
  - 1 Global course

*This major typically requires 72 credits to complete. In addition to the Core Curriculum and major requirements listed, you must complete:*

- **14 elective credits or more** to total at least 120 credits
- A **minimum cumulative GPA** of 2.500 or higher
- The **residency requirement**—45 credits taken at Springfield College (including 15 of your last 30)

## Data Science Major Requirements – Typical First -Year Schedule

**Fall:**
SCSM 101, Springfield College Seminar (Core requirement – 3 cr)
ENGL 113, College Writing I (Core requirement – 3 cr)
CISC 215, Python Programming (3 cr)
MATH 140, Calculus I (3 cr - also fills Quantitative Reasoning Core)
MATH 215, Probability and Statistics (3 cr)

Plus other Core and major requirements, or electives to total approximately 15 credits

**Spring:**
ENGL 114, College Writing II (Core requirement – 3 cr)
DSCI 201, Intro to Data Science and Machine Learning (3 cr)
MATH 142, Calculus II (3 cr)
MATH 235, Discrete Mathematics I (3 cr)

Plus other Core and major requirements or electives to total 30 credits for the year

## Data Science Major Requirements – Typical Second -Year Schedule

**Fall:**
CISC 125, Data Analysis Using R (3 cr)
CISC 175, Introduction to Computer Sciences with C++ (3 cr)
CISC 216, Advanced Python Programming (3 cr)
MATH 220, Calculus III (3 cr)

Plus other Core and major requirements, or electives to total approximately 15 credits

**Spring:**
CISC 275, Data Structures Using C++ (3 cr)
DSCI 250, Applied Statistics (3 cr)
MATH 310, Linear Algebra (3 cr)

Plus other Core and major requirements, or electives to total approximately 15 credits

**Fall or Spring:**
PHIL 106, Ethics (3 cr - also fills Spiritual and Ethical Core)

## Data Science Major Requirements – Typical Third-Year Schedule

**Fall or Spring:**
DSCI 301, Deep Learning Fundamentals (3 cr)
CISC 315, Database Development and Management (3 cr)
ENGL 305, Writing for Professional Communication (3 cr)

Plus Core and major requirements, or electives to total 30 credits for the year

## Data Science Major Requirements – Typical Fourth-Year Schedule

**Fall or Spring:**
DSCI 482, Data Science Seminar (3 cr)
DSCI 486, Internship/Field Work in Data Science (3 cr) ***or***
DSCI 494, Research in Data Science (3 cr)

You should select any outstanding major requirements, Core, or electives to total a minimum of 120 credits for your career

## Additional Data Science Major Requirements – Flexible Timing

*Select **two** courses (6 cr) from the following:*
ARTS 103, Intro to Graphic Design (3 cr)
ARTS 202, 2D Animation (3 cr)
ARTS 231, 3D Animation (3 cr)
BUSM 150, Introduction to Business (3 cr)
BUSM 221, Principles of Marketing (3 cr)
BUSM 310, Business Analytics (3 cr)
COMM 120, Introduction to Journalism (3 cr)
ENVS 120, Foundations of Sustainability (3 cr)
HSCI 101, Introduction to Healthcare (3 cr)
HSCI 240, Principles of Epidemiology (3 cr)
PHIL 108, Logic (3 cr)
PHIL 110, Environmental Ethics (3 cr)
PHIL 130, Philosophy of Law (3 cr)

*Select **three** courses (9 cr) from the following:*
CISC 200, 300 or 400 level (3 cr)
DSCI 200, 300 or 400 level (3 cr)
MATH 300 or 400 level (3 cr)
PHYS 210 or higher (3 cr)

## Data Science Major – Program Standards

Program standards for the Data Science major include, but are not limited to:
- A minimum cumulative GPA of 2.500
- Achieve a minimum cumulative GPA of 2.500 in program requirements
- Complete all program requirements with a grade of C- or better

*Academic Advising Center*
*5/26/26*