



ACADEMIC CATALOG

Undergraduate Catalog | 2025-2026

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Sports Analytics, B.S.



The B.S. in Sports Analytics is recommended for students interested in developing skills to prepare them for careers in human performance data analytics. Graduates with Bachelor’s degrees in Sports Analytics will be equipped to operate wearable technology, prepare data for analysis, and visualize information to make informed decisions regarding human performance.

Students in the program will progressively develop mathematical skills, computational and statistical thinking, and data modeling needed to understand data, identify and solve problems. A primary focus of the degree is developing critical thinking and communication skills that will allow students to work as part of an interdisciplinary team of sports data analysts.

All program-level Admissions and Progression Requirements are in addition to the University of North Carolina at Charlotte Admission Requirements.

Admission Requirements

Freshmen

- Students who meet the university's admissions requirements are eligible for admission to the major.
- See University Admission Requirements.

Transfers

- Students who meet the university's admissions requirements are eligible for admission to the major.
- See University Admission Requirements.

Currently Enrolled Students

- Students transferring from within the university must have a cumulative GPA of 2.0.

Degree Requirements

General Education Courses (31-32 credit hours)

For details on required courses, refer to the General Education Requirements. Total hours to satisfy General Education Requirements may vary as some general education requirements may be double-counted in the major with departmental approval. Please see your advisor for information.

Major Courses (59 credit hours)

Sports Analytics Core (24 credit hours)

- DTSC 1110 - Sports Analytics (3)
- DTSC 1301 - Data and Society A (3)
- DTSC 1302 - Data and Society B (3)
- DTSC 2301 - Modeling and Society A (3)
- DTSC 2302 - Modeling and Society B (3)
- DTSC 3400 - Data Science Practicum (1 to 3)
- or EXER 3900 - Undergraduate Research (1 to 3)
- DTSC 3601 - Predictive Analytics and Their Implications A (3)
- DTSC 3602 - Predictive Analytics and Their Implications B (3)

Math/Statistics Courses (9 credit hours)

- MATH 1120 - Calculus (3)
- or MATH 1241 - Calculus I (3)
- STAT 1220 - Elements of Statistics I (BUSN) (3)
- or STAT 1221 - Elements of Statistics I (3)
- or STAT 1222 - Introduction to Statistics (3)
- STAT 2223 - Elements of Statistics II (3)
- or STAT 2122 - Introduction to Probability and Statistics (3)

Programming and Algorithms Courses (11 credit hours)

- ITSC 1213 - Introduction to Computer Science II (4)
- ITSC 2214 - Data Structures and Algorithms (4)
- ITSC 3160 - Database Design and Implementation (3)

Exercise Science Courses (6 credit hours)

- SPOA 1120 - Factors of Human Performance (3)
- SPOA 2120 - Applied Kinesiology for Human Performance (3)

Sports Analytics Capstone (3 credit hours)

- SPOA 4120 - Modeling of Human Performance (3)

Sports Analytics Elective Courses (6 credit hours)

Take two of the following:

- DTSC 2110 - Sport Business Analytics (3)
- SPOA 2130 - Introduction to Baseball Statistics (3)
- SPOA 4210 - Advanced Baseball Analytics (3)

Unrestricted Electives

As needed to complete the credit hours required for graduation.

Degree Total = 120 Credit Hours

Progression Requirements

The minimum GPA requirement for B.S. in Sports Analytics is 2.0 in each of the following three categories: (1) all courses applied to the degree, (2) all courses in the major, and (3) all upper division courses in the major.

Students have a limit of 2 attempts per course in the major (plus 1 more by petition). This applies to all core courses (Sports Analytics, Computing and Informatics, Mathematics and Statistics, and Exercise Science). The third attempt at a course can only be approved by petition. In addition, a Withdrawal does not count as an attempt, as that effort is already restricted via the Withdrawal limit.



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