Sport Analytics and Performance

Undergraduate Certificate in Sport Analytics and Performance

CERTIFICATE CODE - CU19

The Undergraduate Certificate in Sport Analytics and Performance prepares students to apply data-driven insights to sport and human performance. Combining coursework in statistics, data analysis, and sport technology with hands-on experience in WVU Baseball's Biomechanics and Performance Center, the 12-credit program provides early exposure to real-world analytics within a Power 4 athletic environment. Aligned with WVU's land-grant mission and research excellence, the certificate equips students with workforce-ready skills at the intersection of sport science, technology, and athlete development.

Course Requirements: Students must have a cumulative GPA of 2.75 to graduate from the program. Each required class must be completed with a grade of a C- or better.

Code	Title	Hours
EDUC 232	Data Literacy: Strategies and Applications	3
or STAT 111	Understanding Statistics	
or STAT 211	Elementary Statistical Inference	
SPSC 457	Sport Science Data Analysis	3
SPSC 458	Sport Analytics and Performance Residency 1	3
SPSC 459	Sport Analytics and Performance Residency 2	3
Total Hours		**12**

Certificate Learning Outcomes

SPORT ANALYTICS AND PERFORMANCE

This undergraduate certificate is a career-launching and graduate-prep credential, designed to give students early exposure to the analytic tools and applied sport analytics environments. It opens pathways to entry-level roles in sport performance and serves as a strong on-ramp to graduate study and advanced professional training. Graduates of the certificate program will be able to:

- Apply core statistical and analytical methods to interpret sport performance data.
- Operate entry-level performance technologies and support data collection in high-performance environments.
- Interpret biomechanics and performance outputs to support coaching and development decisions.
- Collaborate with coaches, staff, and peers in applied sport settings with professionalism and accountability.
- Identify career and graduate pathways in sport analytics, performance, and sport science.