

# BACHELOR OF ARTS (BA) DEGREE WITH A MAJOR IN SPORT ANALYTICS

## Program Learning Outcomes for the BA Degree with a Major in Sport Analytics

Upon completing the BA Degree with a major in Sport Analytics, students will be able to:

1. Analyze data using statistical analysis, data mining, visualization, predictive analytics, and machine learning.
2. Communicate sport analytics, statistics, and data science results effectively to a non-technical audience (written, verbal, graphics).
3. Develop computer programming skills to be able to extract, scrape, manage, and parse data for use in statistical analyses.
4. Identify and understand how to apply the various skills, roles, and functions of the different areas in the sport management industry.

## Requirements for the BA Degree with a Major in Sport Analytics

For general university requirements, see [Graduation Requirements \(https://ga.rice.edu/undergraduate-students/academic-policies-procedures/graduation-requirements/\)](https://ga.rice.edu/undergraduate-students/academic-policies-procedures/graduation-requirements/). Students pursuing the BA degree with a major in Sport Analytics must complete:

- A minimum of 14 courses (44-45 credit hours, depending on course selection) to satisfy major requirements.
- A minimum of 120 hours to satisfy degree requirements.
- A minimum of 9 courses (29 credit hours) taken at the 300-level or above.
- A maximum of 6 courses (18 credit hours) from study abroad or transfer credit **after** matriculation at Rice may be applied towards specific major requirements. For additional departmental guidelines regarding transfer credit, see the [Policies](#) (p. 1) tab.

The courses listed below satisfy the requirements for this major. In certain instances, courses not on this official list may be substituted upon approval of the major's academic advisor, or where applicable, the department's Director of Undergraduate Studies. (Course substitutions must be formally applied and entered into Degree Works by the major's [Official Certifier \(https://registrar.rice.edu/facstaff/degreeworks/officialcertifier/\)](https://registrar.rice.edu/facstaff/degreeworks/officialcertifier/).) Students and their academic advisors should identify and clearly document the courses to be taken.

### Summary

| Code  | Title | Credit Hours |
|---|-------|--------------|
| Total Credit Hours Required for the Major in Sport Analytics                  |       | 44-45        |
| Total Credit Hours Required for the BA Degree with a Major in Sport Analytics |       | 120          |

## Degree Requirements

| Code   | Title   | Credit Hours |
|--|---|--------------|
| <b>Core Requirements</b>   |   |              |
| COMP 140   | COMPUTATIONAL THINKING                        | 3-4          |
| or DSCI 101  | INTRODUCTION TO DATA SCIENCE                  |              |
| DSCI 301 / STAT 315  | PROBABILITY AND STATISTICS FOR DATA SCIENCE   | 4            |
| DSCI 302   | INTRODUCTION TO DATA SCIENCE TOOLS AND MODELS | 3            |
| DSCI 303   | MACHINE LEARNING FOR DATA SCIENCE             | 3            |
| MATH 101   | SINGLE VARIABLE CALCULUS I <sup>1</sup>       | 3            |
| or MATH 105  | AP/OTH CREDIT IN CALCULUS I                   |              |
| MATH 102   | SINGLE VARIABLE CALCULUS II <sup>1</sup>      | 3            |
| or MATH 106  | AP/OTH CREDIT IN CALCULUS II                  |              |
| SMGT 260   | INTRODUCTION TO SPORT MANAGEMENT              | 3            |
| SMGT 276   | SPORT MANAGEMENT PRACTICUM                    | 3            |
| SMGT 373   | SPORT ANALYTICS INTERNSHIP 1                  | 3            |
| SMGT 431   | ADVANCED SPORT ANALYTICS                      | 3            |
| SMGT 441   | ADVANCED SPORT BUSINESS ANALYTICS             | 3            |
| STAT 405   | R FOR DATA SCIENCE                            | 3            |
| STAT 410   | LINEAR REGRESSION                             | 4            |
| <b>Capstone Requirement</b>  |   |              |
| SMGT 490   | SEMINAR IN SPORTS ANALYTICS                   | 3            |
| <b>Total Credit Hours Required for the Major in Sport Analytics</b>  |   | <b>44-45</b> |
| Additional Credit Hours to Complete Degree Requirements *  |   | 44-45        |
| University Graduation Requirements ( <a href="https://ga.rice.edu/undergraduate-students/academic-policies-procedures/graduation-requirements/">https://ga.rice.edu/undergraduate-students/academic-policies-procedures/graduation-requirements/</a> ) * |   | 31           |
| <b>Total Credit Hours</b>  |   | <b>120</b>   |

### Footnotes and Additional Information

\* **Note:** [University Graduation Requirements](#) include 31 credit hours, comprised of Distribution Requirements (Groups I, II, and III), FWIS, and LPAP coursework. In some instances, courses satisfying FWIS or distribution requirements may additionally meet other requirements, such as the Analyzing Diversity (AD) requirement, or some of the student's declared major, minor, or certificate requirements. [Additional Credit Hours to Complete Degree Requirements](#) include general electives, coursework completed as upper-level, residency (hours taken at Rice), and/or any other additional academic program requirements.

<sup>1</sup> Students may substitute a higher-level MATH course for the MATH 101 and/or MATH 102 requirements.

## Policies for the BA Degree with a Major in Sport Analytics

### Program Restrictions and Exclusions

Students pursuing the BA Degree with a Major in Sport Analytics should be aware of the following program restriction:

- Students pursuing the major in Sport Analytics may not additionally declare the major in Sport Management.

## Transfer Credit

For Rice University's policy regarding transfer credit, see [Transfer Credit \(https://ga.rice.edu/undergraduate-students/academic-policies-procedures/transfer-credit/\)](https://ga.rice.edu/undergraduate-students/academic-policies-procedures/transfer-credit/). Some departments and programs have additional restrictions on transfer credit. The Office of Academic Advising maintains the university's official list of [transfer credit advisors \(https://oaa.rice.edu/advising-network/transfer-credit-advisors/\)](https://oaa.rice.edu/advising-network/transfer-credit-advisors/) on their website: <https://oaa.rice.edu>. Students are encouraged to meet with their academic program's transfer credit advisor when considering transfer credit possibilities.

## Program Transfer Credit Guidelines

Students pursuing the major in Sport Analytics should be aware of the following program-specific transfer credit guidelines:

- No more than 6 courses (and a maximum of 18 credit hours) of transfer credit from U.S. or international universities of similar standing as Rice may apply towards specific major requirements after matriculation at Rice.
- Students seeking transfer credit should contact the appropriate department with requests for approval (i.e. transfer credit requests for STAT courses must be approved by the Statistics department).
- Requests for transfer credit will be considered by the program director (and/or the program's official transfer credit advisor) on an individual case-by-case basis.

**Please Note:** Additional transfer courses may count toward meeting university graduation requirements, but not toward fulfillment of requirements for the major. Credits awarded to transfer students for courses taken prior to matriculation at Rice are not counted against the departmental limit on transfer courses, but all students must complete more than half of their upper-level major coursework (300-level and 400-level courses) at Rice.

## Additional Information

For additional information, please see the Sport Analytics website: <https://sport.rice.edu/>.

# Opportunities for the BA Degree with a Major in Sport Analytics

## Academic Honors

The university recognizes academic excellence achieved over an undergraduate's academic history at Rice. For information on university honors, please see [Latin Honors \(https://ga.rice.edu/undergraduate-students/honors-distinctions/university/\)](https://ga.rice.edu/undergraduate-students/honors-distinctions/university/) (*summa cum laude*, *magna cum laude*, and *cum laude*) and [Distinction in Research and Creative Work \(https://ga.rice.edu/undergraduate-students/honors-distinctions/university/\)](https://ga.rice.edu/undergraduate-students/honors-distinctions/university/). Some departments have department-specific Honors awards or designations.

## Additional Information

For additional information, please see the Sport Analytics website: <https://sport.rice.edu/>.