

# BIG DATA SCIENCE, CERTIFICATE

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PASSHE - Pennsylvania State System of Higher Education Institutions

CERTIFICATE IN BIG DATA SCIENCE (6BDS)  
This program is effective as of Summer 2021  
Revised 07.30.2021  
UCC: 03.30.2021

Data analytical skills are considered one of the most sought skills in different domains. The big data science certificate will provide students to master these skills and help them learn how to deal with complex data. After completing the certificate, students will have mastered programming skills, fundamentals of statistics, basics and advanced approaches for processing data in tabular format, principles of big data analytics, as well as modern descriptive, predictive, and prescriptive analytical techniques. The certificate helps meet the growing demand for data science professionals.

To access Certificate Requirements, please view the Curriculum Guide tab.

## Related Links

Data Science Certificate Program Page ([https://www.sru.edu/academics/certificates/data-science-certificate-\(online/\)](https://www.sru.edu/academics/certificates/data-science-certificate-(online/)))

Mathematics and Statistics Department Page (<https://www.sru.edu/academics/colleges-and-departments/ches/departments/mathematics-and-statistics/>)

Professional Licensure/Certification Page (<https://www.sru.edu/students/student-consumer-information/professional-licensure/>)

## CURRICULUM GUIDE

### GPA REQUIREMENT

Certificate GPA: 2.0 or higher

### CERTIFICATE REQUIREMENTS

Code	Title	Hours
<b>Required Courses</b>		
CPSC 146	Programming Principles	3
CPSC 210	Productivity Software	3
CPSC 323	Fundamentals of Database Systems	3
CPSC 405	Data Mining and Data Analysis	3
CPSC 485	Big Data Analytics	3
STAT 152	Elementary Statistics I	3
<b>Total Hours</b>		<b>18</b>

\* Some courses may require pre-requisites. Please see course descriptions to determine if there are any pre-requisites for that specific course.

### Important Curriculum Guide Notes

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may place already-earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisers to ensure accurate progress towards degree completion. *The information on this guide is current as of the date listed. Students are responsible for curriculum requirements at the time of enrollment at the University.*