

Applied Statistics and Data Management (Certificate)

In this graduate certificate program, students learn important statistical methods and associated statistical programming techniques.

The certificate requires 12 credits (four courses). Two courses come from an applied methods sequence that focuses on statistical methods and how to apply them in real world settings. Two courses come from a selection of statistical programming courses that teach learners statistical programming techniques that are required for managing data in a typical workplace environment. We have courses covering three of the major statistical and data science languages (R, Python, and SAS).

This certificate serves a wide audience. We have traditional students that enter directly after their undergraduate studies. However, a large proportion of our online community have been working for 5+ years and are looking to retool or upscale their careers.

Please check out our **program website** for more information about the certificate.

More Information

- Program Website (<https://statistics.sciences.ncsu.edu/graduate/online-programs/applied-statistics-and-data-management-certificate/>)
- Distance Website (<https://online-distance.ncsu.edu/program/graduate-certificate-in-applied-statistics-and-data-management/>)

Admissions

The application process is very simple, there are no official prerequisites except for an undergraduate degree with a 3.0 GPA. Applicants should demonstrate an appropriate level of mathematical maturity to allow them to succeed in the certificate program. Examples of this would include successful completion of undergraduate coursework or professional work in a quantitative field. Note that the GRE is not required to apply and we only accept students living in North America.

If you are a current graduate student at NC State, this certificate can be added to your plan of work. Please reach out to statistics_online@ncsu.edu with any questions about applying or adding this certificate.

Applicant Information

- **Delivery Method:** On Campus, Online, Hybrid
- **Entrance Exam:** None
- **Interview Required:** None

Application Deadlines

- **Fall:** July 30th (but the earlier, the better!)
- **Spring:** December 1st
- **Summer 1:** April 30th (but the earlier, the better!)

Plan Requirements

Code	Title	Hours
Required Courses		12
ST 554	Analysis of Big Data **	
or ST 555	Statistical Programming I	
ST 558	Data Science for Statisticians **	
or ST 556	Statistical Programming II	
ST 511	Statistical Methods For Researchers I *	
or ST 513	Statistics for Management and Social Sciences I	
ST 512	Statistical Methods For Researchers II *	
or ST 514	Statistics For Management and Social Sciences II	
Total Hours		12

* The course sequence ST 511 and ST 512 is similar to that of ST 513 and ST 514. The main difference is that ST 511 and ST 512 focus more heavily on analysis of designed experiments, where ST 513 and ST 514 focus more heavily on the analysis of observational data.

** Two courses from ST 554, ST 555, ST 556, and ST 558 must be taken as part of the certificate coursework. ST 556 requires ST 555.

- The certificate will be earned by successful completion of four courses listed above with an average GPA of at least 3.0.