

GRADUATE CERTIFICATE IN DATA ANALYSIS

The Graduate Certificate in Data Analysis provides a solid background in data analysis using modern software for professionals or graduate students in diverse fields who are seeking a short-term program that will strengthen their statistical skills.

Students interested in graduate work should refer to the Graduate and Professional Bulletin (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/>).

Learning Objectives

This certificate is designed to help students develop and strengthen their skills in statistical analysis. Upon successfully completing the certificate, students will be proficient in:

1. Collecting data.
2. Analyzing and interpreting different types of data.
3. Drawing appropriate conclusions in industry or other areas where statistical applications are used.

Requirements Effective Spring 2026

Additional coursework may be required due to prerequisites.

Code	Title	Credits
Select 4 Credits from the following:		4
STAR courses 500-549		
Select 6 credits from the following:		6
STAR courses 500-549		
ANEQ 565	Interpreting Animal Science Research	
CIS 575	Applied Data Mining and Analytics in Business	
CIVE 547/ STAT 547	Statistics for Environmental Monitoring	
CIVE 622	Risk Analysis of Water/Environmental Systems	
ERHS 535	R Programming for Research	
ERHS 537A	R Programming: Research I	
ERHS 537B	R Programming: Research II	
ERHS 732	Advanced Epidemiological Analysis	
ESS 523A	Environmental Data Science Applications: Introduction	
ESS 575	Models for Ecological Data	
FW 670	Wildlife Ecology Modeling	
NR 512	Spatial Statistical Modeling-Natural Resources	
Program Total Credits:		10

*This certificate may have courses in common with other graduate certificates. A student may earn more than one certificate, but a given course may be counted only in one certificate.