Data Analysis
Graduate Certificate

Overview
This data analysis certificate is designed for practitioners looking to derive answers from raw data, including "big data" sets, using a comprehensive range of statistical analyses and methods. If you’re responsible for organizing and analyzing complex data, even if you don’t have a statistics background, the online Graduate Certificate in Data Analysis can help you:

• Learn to effectively collect, analyze, and interpret big data.
• Use tools to examine data to find valuable insights.
• Drive decision-making with relevant results and analyses that influence positive outcomes.
• Gain the ability to interpret and communicate results to technical and non-technical audiences.

Learn data analysis methods and software
With a convenient online format suited for working professionals, students learn core skills and choose elective options to gain specialized knowledge specific to their educational or career goals. You will learn to:

• Use modern data mining techniques to summarize data collected through surveys and designed experiments.
• Perform statistical analyses on different types of data.
• Communicate results using graphs, tables and other formats to a variety of stakeholders with varying levels of technical skill.
• Use SAS and R software for statistical analysis.

Curriculum
Required courses
• STAT 511A – Design and Data Analysis for Researchers I (4 cr.)
• STAT 512 – Design and Data Analysis for Researchers II (4 cr.)

Electives
Select a minimum of two credits from the following courses:
• STAT 547 – Statistics for Environmental Monitoring (3 cr.)
• STAA 552 – Generalized Regression Models (2 cr.)
• STAA 565 – Quantitative Reasoning (1 cr.)
• STAA 566 – Computational and Graphical Statistics (1 cr.)
• STAA 568 – Topics in Industrial and Organizational Statistics (1 cr.)
• STAA 572 – Nonparametric Methods (2 cr.)
• STAA 573 – Analysis of Time Series (2 cr.)
Additional coursework may be required due to prerequisites.
How to Apply
Data Analysis - Graduate Certificate

Application Deadlines
Fall semester: **June 1**  Spring semester: **December 1**

1. **Review Minimum Admission Requirements**
   - Undergraduate degree from an accredited four-year institution
   - One course in statistics
   - A cumulative GPA of 3.0 or higher from your most recent degree completed. GPAs lower than 3.0 may be considered as determined by the Graduate Program Committee. Please submit an academic performance explanation if your GPA was lower than 3.0.

2. **Prepare Application Materials**
   Submit one official transcript of all collegiate work completed from every institution attended, whether or not you received a degree from those institutions. Transcripts from Colorado State University are not required.
   - Resume

3. **Complete Online Application**
   Complete the [online graduate application](#) and pay the nonrefundable application processing fee (payable online). As soon as you have completed the required information, please submit your application. You do not need to wait for transcripts to move your application forward.
   - Choose “Data Analysis (Certificate) – Distance” when choosing the Program of Study. (Note: You must first select “Certificate” at the top.)

4. **Request Transcripts**
   Request one official transcript of all collegiate work completed from every institution attended, whether or not you received a degree from those institutions. Transcripts from Colorado State University are not required. Official transcripts can either be mailed in or sent as e-transcripts.
   - Send e-transcripts to: [gradadmissions@colostate.edu](mailto:gradadmissions@colostate.edu)
   - Send paper copies to:
     Graduate Admissions
     Colorado State University – Office of Admissions
     1062 Campus Delivery
     Fort Collins, CO 80523-1062

Check Your Application Status
View your [application status](#) at any time to ensure your application checklist is complete or to check on updates. Once your complete application, including supporting materials, is received, the department admission committee will review your application and notify you of their decision.

International Students
See [website](#) for test score and transcript requirements.

(970) 492-4898  online.colostate.edu/contact

[Colorado State University](#)