Overview
Developed by the Department of Electrical and Computer Engineering (ECE), this online certificate program leverages CSU’s cross-disciplinary strengths in systems engineering, biomedical engineering, and atmospheric science.

Learn to apply comprehensive engineering principles that yield meaningful data and shape future business strategies. Discover how to effectively capture, model, manage, and extract meaning from large data sets so you can drive strategic decision-making at every stage of the engineering process.

After successfully completing this program, you will:
- Understand how to apply end-to-end engineering principles that produce reliable, meaningful data sets and actionable insights
- Know how to set up effective data collection processes and experiments, and assess the physical engineering processes that govern the generation of that data
- Gain the knowledge to select and apply the most suitable mathematical tools for data modeling and interpretation to drive strategic decision-making
- Expand your analytical thinking as you learn to command algorithmic toolsets, design comprehensive experiments, develop new engineering systems, and efficiently manage data

Customize your plan of study to suit your career goals
This program’s flexible curriculum incorporates mathematics, statistics, computing, and engineering in a format that is accessible to a wide range of students, from current graduate students to mid-career engineers. When building your individual plan of study, select from four unique domains:
- Signal and image processing
- Biomedical engineering
- Computer engineering
- Systems engineering

Delivery
Online

Credits
12 credits
Additional prerequisite coursework may be required

Tuition
$705-$1085 per credit
- Includes Student Services
- Fees assessed separately
- Financial aid is available; eligibility determined on an individual basis

Time frame
1 year

More info
online.colostate.edu/certificates/data-engineering

Contact
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Application Deadlines
Fall semester: July 1  Spring semester: December 1

1 Review Admission Requirements
This graduate certificate requires applicants to have the following, at a minimum:
- Bachelor's degree in engineering or science from a regionally accredited, four-year institution.
- A cumulative GPA of 3.0 or higher from your most recent degree completed
- At least two semesters of calculus

2 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. Your application will not be reviewed until it is complete and all required materials have been received.
- Select “Data Engineering (Certificate) - Distance” when choosing the Program of Study. (Note: You must first select “Certificate” at the top.)

3 Request Transcripts
Request one official transcript from the institution where you earned your bachelor’s degree. 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

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.