Overview

Developed by CSU’s Department of Ecosystem Science and Sustainability, this graduate certificate program provides you with the specialized knowledge to effectively analyze carbon production and manage and/or offset emission levels for government entities and large corporations.

After completing this program, you will be able to:

• Understand quantitative and qualitative methods applicable to the study of greenhouse gas emission management
• Explain greenhouse gas sources and sinks, and how they might be managed
• Discuss current issues in greenhouse gas policies and climate change
• Evaluate the linkages between socioeconomic and ecological processes that drive increases in atmospheric greenhouse gas concentrations
• Assess the costs, benefits, and co-benefits of emission reduction and offset purchase strategies.
• Work in a multidisciplinary setting or as part of a multidisciplinary team
• Carry out basic greenhouse gas assessments using systems approaches and integrative methods, including the application of life cycle analysis and other numerical quantification tools

Curriculum

To earn the Graduate Certificate in Carbon Management, you must complete all three required courses and at least one elective. Please note that you must be admitted into this program for the certificate to appear on your official University transcript.

Required courses

• ESS 524 – Foundations for Carbon/Greenhouse Gas Management (3 cr.)
• ESS 542 – Greenhouse Gas Policies (2 cr.)
• ESS 543/ATS 543 – Current Topics in Climate Change (2 cr.)

Elective courses

Please select one course from the following:

• ANEQ 626 – Animal Nutrition, Emissions, and Management (4 cr.)
• ESS 545 – Applications in Greenhouse Gas Inventories (4 cr.)
• ESS 555 – Life Cycle Assessment for Sustainability (3 cr.)
• ESS 625 – Ecology of Forest Production (3 cr.)
How to Apply
Carbon Management - Graduate Certificate

Application Deadlines
Fall semester: July 15  Spring semester: December 1

1 Review Admission Requirements
The Carbon Management Graduate Certificate requires that students have a bachelor’s degree from a regionally accredited institution.

2 Prepare Application Materials
While it is not required, it is recommended that you contact us in advance of submitting application materials. Prepare the materials below and upload when you apply online.

- Two letters of recommendation (professional and/or academic): You will provide information about your recommenders in the online application. CSU will contact them with instructions and a link to a secure form they will submit on your behalf.

- Statement of purpose:
  » Your purpose for pursuing graduate education and how it will contribute to your long-term goals and career plans
  » Why you have selected Colorado State University as the place to pursue your graduate studies
  » A description of teaching, research/creative, or other academic work you have engaged in relevant to the qualifications.

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. Your application will not be reviewed until it is complete and all required materials have been received.

- Choose “Carbon Management (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
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.