



SCHOOL OF
SUSTAINABLE FUTURES
COLORADO STATE UNIVERSITY

UNDERGRADUATE

12
CREDITS

Certificate

In Climate Change & Society

CSU offers a 12-credit interdisciplinary program, available both RI and online, that focuses on the implications of climate change on human-earth systems, empowering students to reduce climate change impacts and brainstorm climate change strategies to bring to their workplaces.



**No admission
requirements**



**Explore climate
solutions**



Start now!
Enroll in ATS 150

STUDENTS WILL LEARN:

1. What climate change is, why it is now a serious problem, and what can we do about it.
2. What are the key issues for understanding how people respond to and are affected by climate change.
3. What are the key responses and feedbacks of earth systems to climate change.
4. What adaptation, mitigation solutions, or business strategies might be employed in real world systems.

MORE INFORMATION:



We offer flexible options for declaring the certificate. Enroll in any course, like the popular ATS 150: *Science of Global Climate Change*, through RAMweb or CSU Online.

Want to see how it fits into your studies?
Declare early to track your progress! Scan the QR for more information.



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Undergraduate Certificate

IN CLIMATE CHANGE & SOCIETY

COURSE OFFERINGS

Scan the QR code to explore a complete list of course offerings and descriptions.



Foundations in Climate Studies

6 CREDITS REQUIRED

ATS 150 | SCIENCE OF GLOBAL CLIMATE CHANGE

3 CREDITS

PREREQUISITE COURSES: NONE

(AUCC 3A) The relationship between carbon combustion and global warming; the impacts of climate change on people, ecosystems, and society; the costs and benefits of mitigation and adaptation; the categories of policy response; and engineering approaches to address climate change.

***CLMT/GEOL 275** | CLIMATE CHANGE & EARTH SYSTEM INTERACTIONS

3 CREDITS

PREREQUISITE COURSES: ATS 150 OR GEOL 110 OR GEOL 120 OR GEOL 122 OR GEOL 124 OR GEOL 150

Investigation of earth system interactions with climate change, including impacts to water cycling, oceans, and ecological responses.

**Proposed, effective Fall 2025. For Spring 2025, CLMT 350 is eligible and part of the certificate.*

Climate Change in Social Systems

PICK ONE; 3 CREDITS REQUIRED

ANTH 330 | HUMAN ECOLOGY

3 CREDITS

PREREQUISITE COURSES: COMPLETION OF 3 CREDITS FROM COURSES APPROVED FOR AUCC 1C OR AUCC 3C

Roles of technology, economics, social organization, and ideology in human adaptations to and survival in natural and cultural environments.

ESS 365 | GLOBAL CLIMATE JUSTICE

3 CREDITS

PREREQUISITE COURSES: NONE

Explore how mechanisms of environmental transport (air, water, land, biota) act as drivers within different ecosystems and how such drivers create pathways that lead to climate justice issues among the world's vulnerable populations.

***ETST 365** | GLOBAL ENVIRONMENTAL JUSTICE MOVEMENTS

3 CREDITS

PREREQUISITE COURSES: NONE

How the world's poor and minorities self-empower to challenge institutional racism and government apathy in order to secure basic environmental goods.

**Proposed as part of the certificate effective Fall 2025*





Applied Climate Solutions

PICK ONE; 3 CREDITS REQUIRED

BUS 440 | CORPORATE SUSTAINABILITY STRATEGY

3 CREDITS

PREREQUISITE COURSES: BUS 225 OR CLMT 275 OR GES 101

Role of businesses in future environmental and social transformations, including decarbonization, biodiversity, and environmental justice. Focus on the application of practices within the pillars of ESG (environmental stewardship, social responsibility, and governance). Learn how to identify, prioritize, implement, manage, and measure corporate social and sustainable responsibility initiatives.

ATS/GES 440 | SEA LEVEL RISE & A SUSTAINABLE FUTURE

3 CREDITS

PREREQUISITE COURSES: COMPLETION OF AUCC CATEGORIES 1A, 1B, AND 3A

Overview of sea level rise (SLR), with lectures on basic geophysics of SLR, the projected future impacts from climate models, and uncertainty around these projections. Impacts of SLR are discussed in a historical, present, and future context, focusing on social, cultural, economic, and political dimensions.

GES 441 | ANALYSIS OF SUSTAINABLE ENERGY SOLUTIONS

3 CREDITS

PREREQUISITE COURSES: GES 141

Methods of evaluating sustainable energy technologies, including life cycle assessment, energy return on investment, technoeconomic analysis, and political ecology.

