

CLIMATE CHANGE STUDIES MINOR



SCHOOL OF GLOBAL ENVIRONMENTAL SUSTAINABILITY
COLORADO STATE UNIVERSITY



CLIMATE INITIATIVE
COLORADO STATE UNIVERSITY

WHY IT MATTERS

Climate change is reshaping our world -- from ecosystems to economies. This minor helps you understand the science, the social impacts, and the solutions

WHAT YOU'LL LEARN

- The physical process driving climate change
- How natural and human systems respond and adapt
- Policy, economics, and justice dimensions of climate change
- Ways to apply climate knowledge in real-world contexts

Building INTERDISCIPLINARY knowledge for CLIMATE CHANGE

YOUR PATH, YOUR FOCUS

Alongside core courses, choose electives that connect climate studies to your major -- from science and policy to resource management and social justice.

Build the skills to analyze, evaluate, and act on climate challenges in your field, preparing you to contribute to a more resilient future.

CCS students complete 21 credits in core and elective courses that are outside your major and relevant to today's climate change professional. Completion of the CCS minor is certified on the student's academic record.





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REQUIRED CORE COURSES *9 credits required*

KEY: F: Fall, S: Spring, (E)/(O) Even/Odd Years, SS: Summer Session, O: May be Offered Online

Course Code	Course Name	Offered	Credits	Prerequisites
<input type="checkbox"/> ATS 150	Science of Global Climate Change	F, S, O	3	
Select one course from the following:			2-3	
<input type="checkbox"/> CLMT/GEOL 275	Climate Change and Earth System Interactions	F, O		ATS 150 or GEOL 110 or GEOL 120 or GEOL 122 or GEOL 124 or GEOL 150
<input type="checkbox"/> GEOL 313	Earth Systems	S		(GEOL 110 or GEOL 120 and GEOL 121 or GEOL 121 and GEOL 122 or GEOL 121 and GEOL 124 or GEOL 150) and (GEOL 154).
Select one course from the following:			3	
<input type="checkbox"/> ANTH/CLMT 330	Human Ecology	S		
<input type="checkbox"/> ESS 365	Global Climate Justice			
<input type="checkbox"/> ETST 365	Global Environmental Justice Movements	F		Must not be a: Freshman.
Select one course from the following:			3	
<input type="checkbox"/> ATS/GES 440	Sea Level Rise and a Sustainable Future	S		
<input type="checkbox"/> BUS 440	Corporate Sustainability Strategy	F,S,O		BUS 225 or CLMT 350 or GES 101
<input type="checkbox"/> GES 441	Analysis of Sustainable Energy Solutions	S		GES 141 ; Sophomore standing

GAINING DEPTH IN CLIMATE PERSPECTIVES

Select 9-10 credits outside your major subject code from the following:

KEY: F: Fall, S: Spring, (E)/(O) Even/Odd Years, SS: Summer Session, O: May be Offered Online

Course Code	Course Name	Offered	Credits	Prerequisites
<input type="checkbox"/> AB 430	Applications in Agricultural Biology II	F	3	AB 330
<input type="checkbox"/> AB 451	Integrated Pest Management	S, O	3	AB 420 or BSPM 302 or BSPM 308 or BSPM 361
<input type="checkbox"/> ACT 318	Fundamentals of Sustainability Reporting	S	3	ACT 205 or ACT 210
<input type="checkbox"/> ANEQ 448	Sustainable Animal Agriculture	S	3	(CHEM 100-199 - at least 3 credits) and (ANEQ101 or ANEQ 102 or SOCR 100).
<input type="checkbox"/> ANTH/CLMT 330	Human Ecology	S	3	
<input type="checkbox"/> ANTH 370	Primates	O	3	ANTH 120 OR BZ 101
<input type="checkbox"/> AREC/ECON 340	Introduction - Economics of Natural Resources	S	3	AREC 202 OR ECON 202
<input type="checkbox"/> AREC 341	Environmental Economics	F,O	3	AREC 202 OR ECON 202
<input type="checkbox"/> ATS 350	Introduction to Weather and Climate	F	2	
<input type="checkbox"/> ATS/GES 440	Sea Level Rise and a Sustainable Future	S	3	
<input type="checkbox"/> BUS 225	Transforming Business for Sustainable Impact (GT-AH3)	F,S,O	3	CO 150 OR HONR 193
<input type="checkbox"/> BUS 440	Corporate Sustainability Strategy	F,S,O	3	BUS 225 or CLMT 350 or GES 101
<input type="checkbox"/> BZ 342	Exploring Range Shifts in a Changing World	S/(O)	3	BZ 110 or BZ 111 or BZ 120 or LIFE 102 or LIFE 103

GAINING DEPTH IN CLIMATE PERSPECTIVES (cont.)

Course Code	Course Name	Offered	Credits	Prerequisites
<input type="checkbox"/> CHEM 338	Environmental Chemistry	S	3	
<input type="checkbox"/> CIVE 421	Global Water Challenges	O	3	
<input type="checkbox"/> CIVE 442	Air Quality Engineering	S	3	(CBE 331 or CIVE 300 or MECH 342) and (CHEM 113)
<input type="checkbox"/> E 339	Literature of the Earth	F,S	3	CO 150
<input type="checkbox"/> ECON/AREC 240	Economics of Environmental Sustainability	F,S,SS,O	3	
<input type="checkbox"/> ESS 353	Global Change Impacts, Adaptation, Mitigation	S	3	LAND 220 or LIFE 220 or LIFE 320
<input type="checkbox"/> ESS 365	Global Climate Justice		3	
<input type="checkbox"/> ESS/SOCR 405	Global Agriculture and Environmental Change	S	3	BSPM 302 or BSPM 308 or BSPM 361 or LAND 220 or LIFE 220 or LIFE 320
<input type="checkbox"/> ETST/WS 258	Race, Sex, Climate Change	F/(O)	3	
<input type="checkbox"/> ETST/WS 362	Indigenous Consciousness and Gender		3	ETST 100 to 299 - at least 3 credits or WS 200
<input type="checkbox"/> ETST 365	Global Environmental Justice Movements	F	3	
<input type="checkbox"/> ETST 420	Disability, Race, Gender in the Environment	S	3	
<input type="checkbox"/> ETST 441	Indigenous Knowledges	F	3	ETST 100 to 299 - at least 3 credits
<input type="checkbox"/> F 324	Fire Effects and Adaptations	S	3	F 209 or LAND 220 or LIFE 220 or LIFE 320
<input type="checkbox"/> GEOL 366	Low-Temperature Geochemistry	F	3	CHEM 113 and GEOL 154 and GEOL 310
<input type="checkbox"/> GEOL 440	Geodetic and Near-Surface Geophysical Methods	F/(E)	4	(GEOL 110 or GEOL 120 or GEOL 122 or GEOL 124 or GEOL 150) and (GEOL 344) and (PH 122 or PH 142) and (MATH 161 or MATH 255)
<input type="checkbox"/> GES 362	Systems Thinking and Sustainability	F,O	3	GES 101
<input type="checkbox"/> GES/ATS 440	Sea Level Rise and a Sustainable Future	S	3	
<input type="checkbox"/> GES 441	Analysis of Sustainable Energy Solutions	S	3	GES 141
<input type="checkbox"/> GR 217	Human-Environment Geographies	S	3	
<input type="checkbox"/> GR 345	Geography of Hazards	S/(O)	3	GR 210
<input type="checkbox"/> GR 348	Biogeography	F,S	3	GR 100-999 - at least 3 credits
<input type="checkbox"/> HIST 355	American Environmental History	F,S,SS	3	HIST 100-499 - at least 3 credits
<input type="checkbox"/> HIST 373	Environmental History of Colorado		3	HIST 100-499 - at least 3 credits
<input type="checkbox"/> HIST 470	World Environmental History, 1500-Present	F	3	HIST 100-499 - at least 3 credits
<input type="checkbox"/> HORT 476	Environmental Plant Stress Physiology	S/(O)	3	BZ 440
<input type="checkbox"/> JTC 319	Science and Environmental Communication	S	3	JTC 210
<input type="checkbox"/> LAND/LIFE 220	Fundamentals of Ecology	F	3	(BIO 100 to 199 - at least 3 credits or BZ 100 to 199 - at least 3 credits or LIFE 100 to 199 - at least 3 credits or HORT 100) and (MATH 100 to 199 - at least 3 credits)
<input type="checkbox"/> MGT 360	Social and Sustainable Venturing	S	3	
<input type="checkbox"/> MGT 420	Marketing and Societal Well-Being	F, S	3	MGT 300 or MGT 305
<input type="checkbox"/> NR 420	Integrated Ecosystem Management	F,S	4	(F 209 or LAND 220 or LIFE 220 or LIFE 320) and (NR 220) and (NR 319 or NR 322) and (NR 320)
<input type="checkbox"/> NR 444	Fire Economics and Policy	F	3	ECON 202 or AREC 202
<input type="checkbox"/> NRRT 262	Principles of Environmental Communication	F	3	



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GAINING DEPTH IN CLIMATE PERSPECTIVES (cont.)

Course Code	Course Name	Offered	Credits	Prerequisites
<input type="checkbox"/> PHIL 320	Ethics of Sustainability	F,S	3	
<input type="checkbox"/> PHIL 345	Environmental Ethics	F,S	3	
<input type="checkbox"/> POLS 362	Global Environmental Politics	F,S,SS	3	POLS 232
<input type="checkbox"/> POLS 364	Air, Climate, and Energy Policy Analysis	F/(E)	3	POLS 101
<input type="checkbox"/> SOCR 370	Climate-Smart Irrigation Principles	S	2	(BZ 120 or HORT 100 or SOCR 100) and (SOCR 240)
<input type="checkbox"/> SOCR 400	Soils and Global Change-Impacts and Solutions	F	3	(SOCR 240) and (LIFE 220 or LIFE 320)

CCS REQUIREMENTS

- 21 Total credits for completion, 12 of the 21 credits must be upper division (300 level or above).
- Some courses have prerequisite(s), and some may only be offered during certain semesters. Visit the CSU Catalog at catalog.colostate.edu to confirm.

ADDITIONAL INFORMATION

See more information regarding this minor and more on the [SoGES Education web-page](#).



SCHEDULE AN ADVISING APPOINTMENT

Sarah Badding

Assistant Director of Education and Development
School of Global Environmental Sustainability