

# CLIMATE CHANGE STUDIES - NATURAL SCIENCES TRACK, BS

## Introduction

Please click here (<https://clas.ucdenver.edu/academic-programs/climate-change-studies/>) to see Climate Change Studies program information.

The Climate Change Studies program offers BS and BA degrees, and three tracks (e.g., natural science, society and policy) that includes a range of courses across multiple departments, colleges, and schools at CU Denver.

These degree requirements are subject to periodic revision by the academic department, and the College of Liberal Arts and Sciences reserves the right to make exceptions and substitutions as judged necessary in individual cases. Therefore, the College strongly urges students to consult regularly with their major advisor and CLAS advisor to confirm the best plans of study before finalizing them.

## Program Delivery

- This is an on-campus program.

## Declaring This Major

- Click here (<http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-liberal-arts-sciences/#policiestext>) to go to information about declaring a major.

## General Requirements

To earn a degree, students must satisfy all requirements in each of the three areas below, in addition to their individual major requirements.

- CU Denver General Graduation Requirements (<http://catalog.ucdenver.edu/cu-denver/undergraduate/graduation/>)
- CU Denver Core Curriculum (<http://catalog.ucdenver.edu/cu-denver/undergraduate/graduation-undergraduate-core-requirements/>)
- College of Liberal Arts & Sciences Graduation Requirements (<http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-liberal-arts-sciences/#graduationrequirementstext>)
- Click here (<http://catalog.ucdenver.edu/cu-denver/undergraduate/academic-policies-procedures/>) for information about Academic Policies

## Program Requirements

- Students must complete a minimum 51 credit hours and of those 18 must be upper division credit hours from the approved courses.
- A minimum of 30 credit hours must be completed in courses taught by faculty in the College of Liberal Arts and Sciences, at CU Denver.
- Students must earn a minimum grade of C- (1.7) in all courses that apply to the major and must achieve a minimum cumulative major GPA of 2.0. Courses taken using P+/P/F or S/U grading cannot apply to major requirements.

## Program Restrictions, Allowances and Recommendations

- Only three credits of Travel Study may be counted toward graduation requirements.
- Undergraduate students may count up to 6 credit hours of independent study or internship (any combination of CCST 3840 Independent Study; CCST 4840 Independent Study; CCST 4880 Directed Research, or CCST 3939 Internship) towards elective credit in the major as approved by the undergraduate coordinator. Students may not receive more than three credit hours per independent study section. No more than three credit hours of independent study may be taken with the same instructor or in the same term.
- CCST 3939 Internship: Community/Professional Experience optional, but highly recommended.

Code	Title	Hours
<b>Complete the following required courses:</b>		
CCST 1001	Climate Change Seminar	1
CCST 4001	Climate Change Capstone	3-4
<b>Complete the following climate literacy courses:</b>		
ENVS 1044 & ENVS 1045	Introduction to Environmental Sciences and Introduction to Environmental Sciences Laboratory	3-4
	or GEOG 1202 Introduction to Physical Geography	
GEOG/ENVS 3232	Weather and Climate	3
<b>Complete the list of the following foundation natural/climate sciences courses:</b>		
BIOL 2010	Organisms to Ecosystems (Gen Bio) (Complete the list of the following foundation natural/climate sciences courses:)	3
	or BIOL 2030 Honors Organisms to Ecosystems (Gen Bio)	
BIOL 2011	Organisms to Ecosystems Lab (Gen Bio)	1
	or BIOL 2031 Honors Organisms to Ecosystems Lab (Gen Bio)	
BIOL 2020	Molecules to Cells (Gen Bio)	3
	or BIOL 2040 Honors Molecules to Cells (Gen Bio)	
BIOL 2021	Molecules to Cells Lab (Gen Bio)	1
	or BIOL 2041 Honors Molecules to Cells Lab (Gen Bio)	
CHEM 2031	General Chemistry I	3
	or CHEM 2081 Honors General Chemistry I	
CHEM 2038	General Chemistry Laboratory I	1
	or CHEM 2039 Majors General Chemistry I Laboratory	
	or CHEM 2088 Honors General Chemistry I Laboratory	
CHEM 2061	General Chemistry II	3
	or CHEM 2091 Honors General Chemistry II Lecture	
CHEM 2068	General Chemistry Laboratory II	2
	or CHEM 2069 Majors General Chemistry II Laboratory	
	or CHEM 2098 Honors General Chemistry II Laboratory	
GEOG/ENVS 4720	Climate Change: Causes, Impacts and Solutions	3
PSCI 2365	Politics of Climate Change	3
<b>Complete two quantitative methods courses from the following list: 6-7</b>		
BIOL 3763	Biostatistics (Complete two quantitative methods courses from the following list:)	

MATH 3376	Data Wrangling & Visualization
MATH 4830	Applied Statistics
GEOG 4090	Environmental Modeling with Geographic Information Systems
GEOG 5050	Applied Spatial Statistics
<b>Complete two courses from the following natural sciences list: 6-7</b>	
BIOL 3411/3413	Principles of Ecology
BIOL 4052	Advanced Ecology
GEOG 3240	Colorado Climates
BIOL 4154	Conservation Biology
BIOL 4415	Applied Microbial Ecology
BIOL 4425	Biogeography
GEOG 3380	Anthropocene Futures
GEOG 4010	Landscape Biogeochemistry
GEOG 4020	Earth Environments and Human Impacts
GEOG 4240	Applied Geomorphology
GEOG 4270	Glacial Geomorphology
GEOG 4731	Mountain Biogeography
GEOG 4750	Beeography: Geography of Bees
GEOG 4757	Urban Climate and Air Quality
<b>Complete one course from the following policy list: 3</b>	
COMM 4282	Environmental Communication
GEOG 4420	The Politics of Nature
GEOG 4440	Science, Policy and the Environment
PBHL 3020	Introduction to Environmental Health
PBHL 3070	Perspectives in Global Health
PBHL 3500	Climate Justice
PUAD 2002	Policy and Advocacy
PUAD 3500	Managing and Leading in Environmental Organizations
PUAD 4011	Community Resilience, Climate, and Emergency Response
PUAD 4740	Sustainable Energy Policy
URPL 4550	Transportation, Planning and Policy or URPL 455 Transportation, Land Use and the Environment
PSCI 4144	Indigenous Political Systems
PSCI 4146	Indigenous Politics
<b>Complete one course from the following society list: 3</b>	
ANTH 3316	History of Human Environmental Impacts
COMM 4282	Environmental Communication
ECON 4530	Economics of Natural Resources
ECON 4540	Environmental Economics
GEOG 4335	Climate Change & Society
GEOG 4680	Urban Sustainability and Resiliency: Perspectives and Practice
HIST 3366	Nature and Power in American History
HIST 3606	Science, Technology, and Society in the Modern World
PBHL 3002	Ethnicity, Health and Social Justice
PBHL 3081	Health in the City: Urban Health

PSCI 4365	Global Ecological Crises
<b>Total Hours</b>	<b>51-55</b>

To learn more about the Student Learning Outcomes for this program, please visit our website (<https://clas.ucdenver.edu/ges/programs/bachelor-arts/learning-goals-outcomes/>).

To review the Degree Map for this program, please visit our website (<https://www.ucdenver.edu/student/advising/undergraduate/degree-maps/clas/>).