

# CLIMATE CHANGE STUDIES MINOR

## Contact

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## Mission

Climate change promises to be one of the defining environmental and social problems of our lifetime, and the topic of climate change will grow ever more relevant as we move into the future. The interdisciplinary minor in Climate Change Studies is committed to educating tomorrow's leaders in the science, impacts, and solutions to climate change. This interdisciplinary program of study seeks to engage students with an understanding of climate change from diverse perspectives — scientific, political, psychological, economic, and ethical dimensions of the problem and its solutions — and prepare them for a myriad of professions that directly or indirectly relate to understanding, combating, and adapting to climate change.

## Minor Description

The minor in Climate Change Studies provides students with an interdisciplinary understanding of climate change. Three required courses provide a foundation in climate change causes, consequences, and solutions. Students then choose from a variety of courses in three areas: Natural Science, Social Science/Humanities, and Policy. The variety of courses in multiple disciplinary fields allow students to craft a minor that is relevant to their professional and personal interests, including the opportunity for an internship if desired.

## Transfer Credit

See Undergraduate Admissions (<https://catalog.une.edu/undergraduate/admissions/>) for more information.

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## Financial Information

Tuition and fees for subsequent years may vary. Other expenses include books and housing. For more tuition and fee information, please consult this catalog's Financial Information (<https://catalog.une.edu/undergraduate/financial-information-undergraduate-programs/>) section.

## Curricular Requirements

A student may minor in Climate Change Studies with the approval of the minor program contact. To complete this minor, students are expected to successfully complete the following course of study:

Code	Title	Hours
<b>Program Required Courses</b>		
ENV 208	Climate Change: Causes, Consequences, and Solutions	3
PHY 218	Energy and Climate Change	3-4
or MAR 460	The Scientific Basis for Global Climate Change	

SOC 227	Climate Change & Society	3
Select One Policy Elective: <sup>1</sup>		3
ENV 250	Envir Policy Compar Perspect	
ENV 365	Climate Change Adaptation	
MAF 200	Intro to Marine Pollution	
MAF 300	Climate Change, Oceans & Law	
MAR 316	Science in Society	
PSC 201	Intro Intern Relations	
PSC 205	(Introduction to Politics and Environment)	
PSC 306	(Environmental Politics)	
Select One Natural Sciences Elective: <sup>1</sup>		3-4
BIO 235 & 235L	Winter Natural History and Winter Natural History Lab	
BIO 413	Global Change Ecology	
BIO 422 & 422L	Coral Biology and Coral Biology Lab	
ENV 318 & 318L	Advanced Field Methods in Avian Ecology & Conservation and Adv. Research Meth/Avian Ecol Lab	
ENV 328	(Environmental Pollution: Ecosystems, Wildlife, and Human Health)	
MAR 270 & 270L	Oceanography and Oceanography Lab	
MAR 436 & 436L	Natural History of Iceland and Natural History of Iceland	
MAR 460	The Scientific Basis for Global Climate Change	
MAR 464	(Polar Biology)	
Select One Social Sciences and Humanities Elective: <sup>1</sup>		3
BUEC 390	Environmental Economics	
BUEC 395	(Ecological Economics)	
ENV 321	Environmental Communication: Expert Practices for Ecosystem Management	
ENV 328	(Environmental Pollution: Ecosystems, Wildlife, and Human Health)	
ENV 340	Environ Movemnts/Social Change	
ENV 342	Env Racism/Env Justice Mvmnt	
ENV 344	(Environmental Ethics)	
PHI 202	Ethics of Science & Technology	
PHI 330	(Environmental Philosophy)	
PSY 255	Social Psychology	
SOC 210	(Displaced Cultures and Society)	
SOC 226	(Environmental Sociology)	
SOC 265	Social Issues/Problems Global World	
SOC 320	(Community Organization)	
SOC 377	International Development	
<b>Total Hours</b>		<b>18-20</b>

<sup>1</sup> Internship Opportunities (Optional): Internships may substitute for one of the above elective courses, subject to advisor and internship coordinator approval. The internship must deal explicitly with some aspect of climate change science, mitigation, or adaptation.

Please note: While some courses can fulfill both core and program requirements, the credits earned do not count twice towards the minimum total required credits for the degree.

## Learning Outcomes

- Evaluate the issues and conflicts surrounding climate change from multiple perspectives, including scientific, geographic, political, economic, sociological, psychological, ethical, and cultural perspectives
- Explain and quantify the impacts of climate change on human well-being and the natural world
- Think critically about the uneven distribution of climate change responsibility, impacts, vulnerability, adaptive capacity, and political power across individuals, societies, generations, and species
- Identify options for preventing further climate change (mitigation) and reducing impacts of change on human and natural systems (adaptation)
- Analyze and critique policy issues related to global warming
- Apply a practical understanding of climate change impacts, mitigation, and adaptation to their professional work