



SF STATE UNIVERSITY

Certificate in Climate Change Causes, Impacts, & Solutions

https://climatehq.sfsu.edu/climatehq

WHICH COURSES SHOULD I TAKE?

CERTIFICATE REQUIREMENTS:

•	Students must take 4 different courses, 1 in each of these 4 areas (12-18 units total):
	Area 1: FOUNDATIONAL courses
	Area 2: CAUSES courses
	Area 3: IMPACT5 courses
	Area 4: SOLUTIONS courses
	 Note: Courses can <u>not</u> be counted for more than 1 category at a time.
	At least 1 of the 4 courses must be designated as an ADVANCED CLIMATE JUSTICE course.
	At least 8 units counted toward the Certificate must be upper-division level.
	At least 8 units counted toward the Certificate must be graded on an A-F basis.
	At least half the Certificate units must be taken in residence at SFSU.

- Certificate coursework must also:
 - Have a minimum average GPA of 2.0.
 - Have a grade of CR, C, or better.
 - Be completed within 7 years from registration for your first Certificate course.

Good news! Courses used to complete the Certificate <u>can</u> also be counted toward GE, major, & minor requirements!

TIP! Fill out this table as you complete or plan your Certificate Requirements

Certificate Requirement	Which course did you take or do you plan to take?	
Take 1 FOUNDATIONAL Course	ENVS 130: Intro to Environmental Studies	
Take 1 CAUSES Course	CHEM 380: Chemistry Behind Environmental Pollution	
Take 1 IMPACT5 Course	BUS 450 Greening of Business	
Take 1 SOLUTIONS Course	ENVS 570: Applied Local Sustainability★	
1 of the 4 courses you took must be designated as ADVANCED CLIMATE JUSTICE. Put a ★ next to it in this table.		

Go to this link for instructions on how to earn the Certificate If you have other questions about the Certificate, see the FAOs

See next pages for Certificate courses \rightarrow

CERTIFICATE COURSES:

	ICATE COURSES:		
Area	Courses in that Area	ADVANCED CLIMATE JUSTICE?	Course Attributes
	BIOL 318: Our Endangered Planet		 E1 LLD Pre-Fall 2019 UD-B: Physical Life Science Am. Ethnic & Racial Minorities Environmental Sustainability Global Perspectives
S	ENVS 130: Intro to Environmental Studies		Environmental Sustainability
Course	ERTH 335: Global Warming		 UD-B: Physical Life Science Environmental Sustainability Global Perspectives
FOUNDATIONAL Courses	GEOG 160: Intro to Environmental Science		 B2: Life Science B3: Lab Science Environmental Sustainability Global Perspectives
Fou	RRS 276: Race, Activism, & Climate Justice	*	 B2: Life Science Am. Ethnic & Racial Minorities Environmental Sustainability Global Perspectives Social Justice
	WGS 578: Women, Globalization, & Ecology	*	
	*BIOL 161: Climate Change and the Oceans		
İ	*BIOL 300: Nature Study		• UD-B: Physical Life Science • Environmental Sustainability
	*BIOL/ERTH 577: Climate and Ecological Interactions		
	*BIOL 617 Environmental Physiology		
	*BUS 450 Greening of Business		
	CHEM 380: Chemistry Behind Environmental Pollution		UD-B: Physical Life ScienceEnvironmental Sustainability
	COMM 572: Communication and Environmental Justice	*	 UD-C: Arts and/or Humanities Environmental Sustainability Social Justice
es	ENVS 130: Intro to Environmental Studies		Environmental Sustainability
nrs	ENVS 460: Energy Justice & Sustainability	*	
CAUSES Courses	ERTH 260: Physical Processes in the Atmosphere		 B1: Physical Science B3: Lab Science Environmental Sustainability Global Perspectives
	ERTH 335: Global Warming		 UD-B: Physical Life Science Environmental Sustainability Global Perspectives

	ERTH 365: Extreme Weather in a Warming World		• UD-B: Physical Life Science • Environmental Sustainability
	EDTH 525. November Olivert Change		Global Perspectives
	ERTH 535: Planetary Climate Change		• B1: Physical Science
	GEOG 101: Our Physical Environment		• Environmental Sustainability
	GEOG 160: Intro to Environmental Science		 B2: Life Science B3: Lab Science Environmental Sustainability Global Perspectives
	GEOG 314: Bioclimatology		
	GEOG 435: Geography of Global Transportation	*	
	GEOG 500GW: Physical & Human Dimensions of Climate Change	*	• Graduation Writing Assessment (GWAR)
	*GEOG 666: Geography of Garbage: Recycling and Waste Reduction	*	Environmental Sustainability
	*IR/GEOG 428: International Political Economy of Food and Hunger	*	
	IR 735: Seminar in Global Environmental Policy	*	
	LS 401: International Development & Resource Justice	*	 UD-D: Social Sciences Environmental Sustainability Global Perspectives
	PLSI 354: Politics, the Environment, & Social Change		 UD-D: Social Sciences Environmental Sustainability Social Justice
	RRS 276: Race, Activism, & Climate Justice	*	 B2: Life Science Am. Ethnic & Racial Minorities Environmental Sustainability Global Perspectives Social Justice
	USP 514: Sustainable Development	*	 Environmental Sustainability Social Justice
	WGS 593: Gender, Health & the Environment	*	 UD-D: Social Sciences Environmental Sustainability Global Perspectives
	AA S 587: Asian Americans & Environmental Justice	*	 UD-D: Social Sciences Am. Ethnic & Racial Minorities Environmental Sustainability Social Justice
IMPACTS Courses	BECA 502: Environmental Communication on Electronic Media	*	 UD-C: Arts and/or Humanities Environmental Sustainability Social Justice
ŠČ	*BIOL 161: Climate Change and the Oceans		
MPAC	*BIOL 300: Nature Study		• UD-B: Physical Life Science • Environmental Sustainability
7	*BIOL 617 Environmental Physiology		
	*BUS 450 Greening of Business		
	ENVS 470: Climate Politics & Policy	*	Environmental Sustainability

			Global Perspectives
	ENVS 480: Climate Change Adaptation & Justice	*	
	ERTH 260: Physical Processes in the Atmosphere		 B1: Physical Science B3: Lab Science Environmental Sustainability Global Perspectives
	ERTH 330: California Water		• UD-B: Physical Life Science • Environmental Sustainability
	ERTH 335: Global Warming		 UD-B: Physical Life Science Environmental Sustainability Global Perspectives
	ERTH 365: Extreme Weather in a Warming World		 UD-B: Physical Life Science Environmental Sustainability Global Perspectives
	GEOG 314: Bioclimatology		
	GEOG 500GW: Physical & Human Dimensions of Climate Change	*	• Graduation Writing Assessment (GWAR)
	*IR/GEOG 428: International Political Economy of Food and Hunger	*	
	RRS 276: Race, Activism, & Climate Justice	*	 B2: Life Science Am. Ethnic & Racial Minorities Environmental Sustainability Global Perspectives Social Justice
	USP 514: Sustainable Development	*	 Environmental Sustainability Social Justice
	WGS 593: Gender, Health & the Environment	*	UD-D: Social SciencesEnvironmental SustainabilityGlobal Perspectives
	BECA 502: Environmental Communication on Electronic Media	*	 UD-C: Arts and/or Humanities Environmental Sustainability Social Justice
	BIOL 532: Restoration Ecology		
	BIOL 534: Wetlands Ecology	*	
ι _ο	BIOL 671: Ecology & Evolution of Marine Systems II	*	Environmental Sustainability
Soumows Courses	COMM 572: Communication and Environmental Justice	*	 UD-C: Arts and/or Humanities Environmental Sustainability Social Justice
Aorr	*COMM/ENVS 675: Climate Ambassadors Practicum in the Climate Change Certificate	*	
2011	ECON/FIN/ENVS 651: Student Managed Fund in Environmental, Social & Governance (ESG) Investments		
	ENVS 460: Energy Justice & Sustainability	*	
	ENVS 470: Climate Politics & Policy	*	 Environmental Sustainability Global Perspectives
	ENVS 480: Climate Change Adaptation & Justice	*	

ENVS 530: Environmental Leadership & Organizing	*	
ENVS 570: Applied Local Sustainability	*	Environmental Sustainability
GEOG 314: Bioclimatology		
GEOG 433: Geography of Urban Transportation	*	
GEOG 435: Geography of Global Transportation	*	
GEOG 500GW: Physical & Human Dimensions of Climate Change	*	• Graduation Writing Assessment (GWAR)
*GEOG 666: Geography of Garbage: Recycling and Waste Reduction	*	• Environmental Sustainability
*IR/GEOG 428: International Political Economy of Food and Hunger	*	
IR 735: Seminar in Global Environmental Policy	*	
LS 430: Future of the Forests	*	 UD-B: Physical Life Science Environmental Sustainability Global Perspectives
RRS 276: Race, Activism, & Climate Justice	*	 B2: Life Science Am. Ethnic & Racial Minorities Environmental Sustainability Global Perspectives Social Justice
USP 515/GEOG 667: Environ. Justice: Race, Poverty, & the Envir.	*	 Environmental Sustainability Global Perspectives Social Justice
WGS 578: Women, Globalization, & Ecology	*	

Check course prerequisites in the SF State Bulletin: http://bulletin.sfsu.edu/courses/

^{*}courses included in the certificate curriculum following revisions conducted in Spring 2023. Please note that the old (2021-22 and 2022-23) SFSU bulletins don't reflect these new asterisked courses. But they count towards certificate coursework.