

**Graduate Certificate in Climate Change and Health (GCeCCH) Elective Course List**

Course #	Credits	Cross Listing	Title	Pre-requisite	Qtr
<b>Atmospheric Science</b>					
ATM S 586	2, max 20	ESS 586, OCEAN 586	Current Research in Climate Change		
ATM 559	3	ESS 559, OCEAN 558	Climate Modeling	ATM S 587, OCEAN 587, ESS 587, ATM S 504, or ATM S 505	
ATM S 585	4	ENVIR 585, ESS 585, SMEA 585	Climate Impacts on the Pacific Northwest		Sp
ATM S 588	3	ESS 588, OCEAN 588	The Global Carbon Cycle and Climate		W
ATM S 593	1	ESS 593, OCEAN 593	Climate Science Seminar		W
<b>Marine and Environmental Affairs</b>					
SMEA 500	3		Introduction to the Human Dimensions of Global Change		A
SMEA 521	3		Governmental Responses to Climate Change		A
SMEA 523	3		International Science and Technology Policy		
SMEA 530	3		Development and the Environment		A
<b>Public Affairs</b>					
PB AF 513	4		Public Policy Analysis	PB AF 516 or permission of instructor	
PB AF 531	3-4		Development Management in the Twenty-first Century		
PB AF 534	4		Food and Agricultural Policy in Developing Countries		
PB AF 547	4		Water Resource Economics		
PB AF 568	3-4		Social Justice and Public Policy		
PB AF 582	4		Communicating Climate Change		
PB AF 593	3-4		Climate Change and Energy Policy		
<b>College of the Built Environment/Urban Design/Infrastructure Planning</b>					
IPM 502	3		Introduction to Systems Infrastructure		
IPM 505	3		Climate Change and Infrastructure		Sp
IPM 507	3		Epidemiology for Health Hazards		Sp
IPM 511	3		Food Systems		W
IPM 506	3		Energy Systems		A
IPM 508	3		Risk Assessment and Business Continuity		
IPM 510	3		Water Systems		W
IPM 514	3		Transportation Systems		
IPM 523	2		Ecological Processes in Coastal and Floodplain Management		S
URBDP 598	Variable		Complexity, Resilience, and Innovation in Urban Ecosystems		Sp
<b>Environmental and Occupational Health</b>					
ENV H 501	4		Foundations of Environmental Health		A
ENV H 511	4		Global Environmental and Occupational Health		W
ENV H 517	3		Children's Environmental Health		Sp
ENV H 538	2	URBDP 538	Public Health and the Built Environment		
ENV H 539	3		One Health: Human and Animal Health in a Changing Environment		Sp
ENV H 541	3		Ecology of Environmentally Transmitted Microbial Hazards		A
ENV H 544	4		Antibiotic Resistant Bacteria/Genes Impact on the Environment and Public Health	EPI 320, BIOL 220, or MICROM 301	A
ENV H 545	4		Water, Wastewater, and Health		A
ENV H 547	3		Environmental Change and Infectious Disease		Sp
ENV H 548	3		Community Air Pollution		Sp

ENV H 570	3	EPI 570	Occupational and Environmental Epidemiology	EPI 511 or EPI 512, EPI 513 or permission of instructor	Sp
ENV H 572	3		Environmental Risk and Society		W
ENV H 590X			GIS in Public Health		
ENV H 577	3-4	CEE 560, PB AF 589	Risk Assessment for Environmental Health Hazards		A
<b>Global Health</b>					
G H 501	1		Core Topics in Global Health		A
GH 555	3	NUTR 555	Nutrition in Developing Countries		Sp
GH 516	3	JSIS 578, LAW H540	Health and Human Rights		W
GH 523	3		Policy Development and Advocacy for Global Health		W
GH 514	2-3		Global Societal Determinants of Health		Sp
GH 534	3		Building Better Evidence Through Integrated Health Information and Surveillance Systems	EPI 511 or instructor permission	Sp
G H 539	2		Methods, Tools, and Data in Global Health		A
GH 541	4-5		Fundamentals of Implementation Science in Global Health		Sp
GH 544	3	HSERV 544	Maternal and Child Health in Developing Countries		W
<b>Health Services</b>					
HSERV 514	3	EPI 547	Social Determinants of Population Health and Health Disparities	HSERV 511 or permission of instructor	Sp
HSERV 548	3	EPI 548	Research Methods for Analyzing Contextual and Social Determinants of Health		W
<b>Geography</b>					
GEOG 514	5		GIS Problem Solving		S
GEOG 561			Urban Geographic Information Systems	GEOG 560	W
GEOG 564			GIS and Decision Support	GEOG 560	
<b>Engineering</b>					
CEE 565	5		Climate Change and Energy		W
CEE 567	5		Health and Sustainable Transportation		Sp
CEE 569	5		Policy Development, Finance, and Sustainable Transportation		Sp
CEE 583	3		Transportation Energy and Sustainability		Sp
CEE 588	3		Energy Infrastructure and the Environment		A
<b>School of Law</b>					
LAW E 597	4		Global Warming and Justice Seminar		W, Sp
LAW E 598	3-4		Climate Change Law		Sp
LAW B564	3-6		Women, Poverty, and Natural Resource Management		
<b>Architecture</b>					
ARCH 564	3		Environmental Design and Well-Being		
<b>Social Work</b>					
SOC W 513	3		Practice IV: Community Change Practice		Sp
SOC W 527	3		Global and Local Inequalities: Critical Analyses of the Processes and Policies of Globalization		
SOC W 554	3		People, Place, Equity		
SOC W 555	3		Global Perspectives in Social Work Practice		Sp