

Competency 1	Competency 2	Course Title	Course Number	Instructors	Course description from courses.yale.edu/
Biological & Environmental Influences on Health		Climate Change Adaptation and Global Health	HLTH 332 Section 01, CRN 11085 Same As: EVST 333, section 01 Same As: F&ES 721, section 01	Steve Whittaker	Climate change has the observable potential to increase the frequency and intensity of extreme weather events such as hurricanes, heat waves, droughts, frosts, and floods. In response, many concerned citizens, communities, scientific consortia, industries, and governments around the world have sought to adapt to climate change for the sake of global well-being. This course examines climate change adaptation as a risk management strategy; how it builds resilience where there was vulnerability. Health protective activities resulting from thoughtful, interdisciplinary approaches that consider political, commercial, and socio-cultural factors are held as the ideal among all adaptive responses. Scope includes but is not limited to dynamics in the U.S., Latin America, Asia, and the Caribbean. Throughout the semester, participants engage in lectures, discussions, interactive exercises, and collaborative presentations. Enrollment is open to junior and senior undergraduates of Yale University, with preference given to Jackson Institute Global Health Studies Scholars. Non-Global Health Studies Scholars require permission to enroll and should contact the instructor (steve.whittaker@yale.edu) with a brief statement of interest. Cap of 18 students.
Biological & Environmental Influences on Health	Historical Approaches	Evolution and Medicine	E&EB 235 Section 01, CRN 10813 Same As: HLTH 250, section 01 Same As: E&EB 535, section 01	Stephen Stearns	Introduction to the ways in which evolutionary science informs medical research and clinical practice. Diseases of civilization and their relation to humans' evolutionary past; the evolution of human defense mechanisms; antibiotic resistance and virulence in pathogens; cancer as an evolutionary process. Students view course lectures on line; class time focuses on discussion of lecture topics and research papers. Prerequisite: BIOL 101–104.
Biological & Environmental Influences on Health		Minerals and Human Health	EVST 261 Section 01, CRN 11043 Same As: G&G 261, section 01 Same As: F&ES 261, section 01	Ruth Blake	Study of the interrelationships between Earth materials and processes and personal and public health. The transposition from the environment of the chemical elements essential for life. After one year of college-level chemistry or with permission of instructor; G&G 110 recommended.
Biological & Environmental Influences on Health	Health & Societies	Obesity: Biology, Evolution, and Society	ANTH 236 Section 01, CRN 13860 Same As: ANTH 836, section 01	Claudia Valeggia	The goal of this course is to provide an interdisciplinary approach to learning about obesity as a biological and social phenomenon. We use biology as a scaffolding to understand obesity, yet also discuss the social, cultural, and psychological elements that shape our relationship with food and body size. The coursework focuses on three perspectives—the biological pathways over the lifetime that lead to obesity, the evolutionary origin of obesity, and the cross-cultural and societal meanings of obesity. Briefly, topics include adipose tissue as a regulatory and endocrine organ, human body composition variation in differing ecologies, the developmental origins of obesity, efficacy of obesity interventions and political economies' influence on obesity. This class has a "seminar" format, in which lectures are mixed with active, student-centered, in-class discussions.
Biological & Environmental Influences on Health		Environmental Anthropology	EVST 345 Section 01, CRN 11005 Same As: ANTH 382, section 01 Same As: ER&M 395, section 01 Same As: F&ES 384, section 01	Michael Dove	The history and contemporary study of anthropology and the environment, with special attention to current debates regarding human environmental relations. Topics include: nature-culture dichotomy; ecology and social organization; methodological debates; politics of the environment; and knowing the environment.
Biological & Environmental Influences on Health		Etiology and Treatment of Addictions	PSYC 417 Section 01, CRN 11671	Arielle Baskin-Sommer	Research from the fields of cognitive neuroscience, psychology, sociology, and public health on the etiology and treatment of addictions. Social, neurobiological, and genetic explanations for addiction; evaluation of addiction treatments; the social construction of substance policies.
Health & Societies		Medical Anthropology at the Intersections: Theory and Ethnography	ANTH 448 Section 01, CRN 12852	Marcia Inhorn	The field of medical anthropology boasts a rich theoretical and empirical tradition, in which critically acclaimed ethnographies have been written on topics ranging from local biologies to structural violence. Many scholars engage across the social science and humanities disciplines, as well as with medicine and public health, offering both critiques and applied interventions. This medical anthropology seminar showcases the theoretical and ethnographic engagements of nearly a dozen leading medical anthropologists, with a focus on their canonical works and their intersections across disciplines.
Health & Societies		Race, Ethnicity, and Immigration	ER&M 211 Section 01, CRN 11763 Same As: SOCY 144, section 01 Same As: EDST 144, section 01 Same As: EVST 144, section 01	Grace Kao	Exploration of sociological studies and theoretical and empirical analyses of race, ethnicity, and immigration, with focus on race relations and racial and ethnic differences in outcomes in contemporary U.S. society (post-1960s). Study of the patterns of educational and labor market outcomes, incarceration, and family formation of whites, blacks (African Americans), Hispanics, and Asian Americans in the United States, as well as immigration patterns and how they affect race and ethnic relations.
Health & Societies		Four Conflicts through a Human Rights Lens	GLBL 346 Section 01, CRN 12195	Janine di Giovanni	This course focuses on four conflicts of the 1990s—Bosnia, Sierra Leone, Rwanda, and Kosovo—specifically through the lens of human rights. Why are these four conflicts important when other current conflicts—Syria, Yemen, South Sudan—are urgent and pressing? The 1990s was the era of supposed "humanitarian intervention" and "just" wars. Can we learn from what happened in that decade? The course instructor reported extensively on all four conflicts and will use her own on-the-ground knowledge to dig deep into the roots of the conflicts; the specific battles; turning points; the case studies of human rights abuse; and finally, political solutions and post-conflict resolution.
Health & Societies	Historical Approaches	Healthcare for the Urban Poor	HSHM 406 Section 01, CRN 11089 Same As: HIST 150J, section 01	Sakena Abedin	Exploration of the institutions, movements, and policies that have attempted to provide healthcare for the urban poor in America from the late nineteenth century to the present, with emphasis on the ideas (about health, cities, neighborhoods, poverty, race, gender, difference, etc) that shaped them. Topics include hospitals, health centers, public health programs, the medical civil rights movement, the women's health movement, and national healthcare policies such as Medicare and Medicaid.
Health & Societies	Performance Representation & Health	Sexuality, Gender, Health, and Human Rights *Graduate Course	SBS 585 Section 01, CRN 13607 Same As: GLBL 529, section 01 Same As: WGSS 529, section 01	Alice Miller	The course explores the application of human rights perspectives and practices to issues in regard to sexuality and health. It addresses the necessity—and complexity—of adding nuanced rights perspectives to programming and advocacy on sexual health. Through reading, interactive discussion, paper presentation, and occasional outside speakers, students learn the tools and implications of applying rights to a range of sexuality and health-related topics. The overall goal is twofold: to engage students in the world of global sexual health and rights policy making as a field of social justice and public health action; and to introduce them to conceptual tools that can inform advocacy and policy formation and evaluation.
Historical Approaches	Health & Societies	Reproductive Health, Gender & Power in the U.S.	HSHM 465 Section 01, CRN 13062 Same As: HIST 176J, section 01 Same As: WGSS 457, section 01	Ziv Eisenberg	This seminar examines women's and men's reproductive health in the United States from the 19th century to the present. How have gender norms and social power structures shaped medical knowledge, scientific investigation, political regulation, and private reproductive experiences? What do the lessons of the history of reproductive health tell us about contemporary policy, legal and economic debates? Topics include abortion, activism, childbirth, contraceptives, eugenics, feminism, fertility, medicalization, pregnancy, reproductive science and technology, sexual health, social justice, and sterilization.

Fall 2019: Recommended GHS Competency Courses

Historical Approaches		Third World Studies	ER&M 238 Section 01, CRN 12105 Same As: AFAM 192, section 01 Same As: AFST 238, section 01 Same As: AMST 238, section 01	Gary Okihiro	Introduction to the historical and contemporary theories and articulations of Third World studies (comparative ethnic studies) as an academic field and practice. Consideration of subject matters; methodologies and theories; literatures; and practitioners and institutional arrangements.
Historical Approaches		Medicine and Race in the Slave Trade	HSHM 481 Section 01, CRN 11098 Same As: AFAM 213, section 01 Same As: HIST 383J, section 01 Same As: AFST 481, section 01	Carolyn Roberts	Examination of the interconnected histories of medicine and race in the slave trade. Topics include the medical geography of the slave trade from slave prisons in West Africa to slave ships; slave trade drugs and forced drug consumption; mental and physical illnesses and their treatments; gender and the body; British and West African medicine and medical knowledge in the slave trade; eighteenth-century theories of racial difference and disease; medical violence and medical ethics.
Historical Approaches		Making Climate Knowledge	HIST 465 Section 01, CRN 12899 Same As: HSHM 209, section 01 Same As: EVST 209, section 01 Same As: F&ES 719, section 01	Deborah Coen	This is a course about how humans have come to know what we know about our impacts on the earth's climate and our vulnerability to climate change. When did humans first know that their actions, in the aggregate, could transform the planet? Did scientists bear responsibility to warn of these consequences? In what ways has the modern science of climate both appropriated and undermined traditional and indigenous forms of climate knowledge? Students learn to work with the methods of history of science: we analyze science as a social and material process bound to the cultural and epistemological particularities of its historical context, and we examine the political dimensions of historical narratives about the emergence of the theory of global warming. Via hands-on experience with Yale's historical collections, students learn to analyze maps, artifacts, and instruments as historical sources. They also gain familiarity with the methods of environmental history, learning to attend to historical evidence of shifting relationships between humans and non-humans. Finally, students become more attuned to the evidence of climate change around them and more confident in their ability to make climate knowledge for themselves.
Historical Approaches	Performance Representation & Health	African Encounters with Colonialism	HIST 332 Section 01, CRN 12363 Same As: AFST 333, section 01	Daniel Magaziner	How African societies and peoples encountered, engaged, and endured the colonial and postcolonial world, from the arrival of Kiswahili-speaking traders at the shores of Lake Victoria in the 1840s through the rise and fall of European colonialism and the resulting forms of neocolonialism. Transformations and continuities in African religious life; gendered sociability; popular culture.
Historical Approaches		Sickness and Health in African American History	HIST 479 Section 01, CRN 12379 Same As: AFAM 170, section 01 Same As: HSHM 241, section 01	Cayolyn Roberts	A history of American medicine through the African American experience covering the period of slavery through #BlackLivesMatter. Oriented around the complex dynamics of medical abuse and medical resistance, key themes include medicine and slavery; gender and reproduction; medical experimentation and ethics; the rise of racial science; lynching and vigilante violence; segregation and public health; African-descended approaches to health and healing; the rise of the African American medical profession; and black health activism from slavery to #BlackLivesMatter.
Performance Representation & Health	Political Economy & Governance in Health	Race, Politics, and the Law	AMST 209 Section 01, CRN 11985 Same As: ER&M 223, section 01 Same As: PLSC 262, section 01	Daniel HoSang	Examination of how race—as a mode of domination and resistance—has developed and transformed in the United States since the early-twentieth-century. How political actors and social movements engage the law to shape visions of freedom, democracy, and political life. Consideration of critical race theory, political discourse analysis, intersectionality and women of color feminism, and American political development.
Performance Representation & Health		Anthropology of the Young and the Dispossessed	AFAM 378 Section 01, CRN 10365 Same As: ANTH 379, section 01	Aimee Cox	This seminar explores how anthropologists have theorized the category of youth and represented those considered to be young people in ethnographies. After the first two weeks of course orientation to the concepts of adolescence, paternalism, socialization, and rehabilitation, students read one ethnographic work a week that allows the class to interrogate these concepts as they appear in the scholarship of both anthropologists and non-anthropologists. Students discern how some of the same definitions and assumptions used to define "youth" are mapped onto representations of those communities that have historically been dispossessed.
Performance Representation & Health	Health & Societies	Fruits of Empire	ER&M 439 Section 01, CRN 12122 Same As: AMST 439, section 01	Gary Okihiro	Readings, discussions, and research on imperialism and "green gold" and their consequences for the imperial powers and their colonies and neo-colonies. Spatially conceived as a world-system that enmeshes the planet and as earth's latitudes that divide the temperate from the tropical zones, imperialism as discourse and material relations is this seminar's focus together with its implantations—an empire of plants. Vast plantations of sugar, cotton, tea, coffee, bananas, and pineapples occupy land cultivated by native and migrant workers, and their fruits move from the tropical to the temperate zones, impoverishing the periphery while profiting the core. Fruits of Empire, thus, implicates power and the social formation of race, gender, sexuality, class, and nation.
Performance Representation & Health	Historical Approaches	Sickness and Health in African American History	HIST 479 Section 01, CRN 12379 Same As: AFAM 170, section 01 Same As: HSHM 241, section 01	Carolyn Roberts	A history of American medicine through the African American experience covering the period of slavery through #BlackLivesMatter. Oriented around the complex dynamics of medical abuse and medical resistance, key themes include medicine and slavery; gender and reproduction; medical experimentation and ethics; the rise of racial science; lynching and vigilante violence; segregation and public health; African-descended approaches to health and healing; the rise of the African American medical profession; and black health activism from slavery to #BlackLivesMatter.
Performance Representation & Health		Sex, Markets, and Power	PLSC 427 Section 01, CRN 11613	Frances Rosenbluth	Consideration of how women's socioeconomic status and political power have varied across time and place. Three analytical lenses are used: biology, markets, and power.
Political Economy & Governance in Health		Health Economics and Public Policy	ECON 170 Section 01, CRN 10847	Howard Forman	Application of economic principles to the study of the U.S. health care system. Emphasis on basic principles about the structure of the U.S. system, current problems, proposed solutions, and the context of health policy making and politics.
Political Economy & Governance in Health		The Political Economy of Migration	ECON 483 Section 01, CRN 13799	Zachary Barnett-Hov	Immigration flows are a defining political concern throughout the world, and internal migration is reshaping the political and economic landscape of the developing world. This class aims to bring students to the forefront of political and economic research on migration, with a specific focus on the region of South Asia. Studying the political aspects of migration involves engaging with formal models on the incentives of governments to facilitate or stymie internal and international movement. Studying the economic aspects of migration requires learning about the economic theories underlying location choice. Students continue with the studying of the role that infrastructure plays in regulating movement. Prerequisites: A course in econometrics/statistics and intermediate macroeconomics.

Fall 2019: Recommended GHS Competency Courses

Political Economy & Governance in Health	Comparative Welfare Policy in Developing Countries	PLSC 428 Section 01, CRN 13705 Same As: EP&E 240, section 01 Same As: GLBL 333, section 01	Jeremy Seekings	Examination of public and private welfare systems in the developing world. Analysis of the evolving relationships between kin or community and states and market. Particular attention to the politics of contemporary reforms.
Political Economy & Governance in Health	Political Economy of Poverty Alleviation	PLSC 423 Section 01, CRN 11609 Same As: EP&E 243, section 01 Same As: GLBL 336, section 01 Same As: LAST 423, section 01	Ana De La O	Overview of classic and contemporary approaches to the question of why some countries have done better than others at reducing poverty. Emphasis on the role of politics.
Political Economy & Governance in Health	The Economics of Energy and Climate Change	ECON 331 Section 01, CRN 10850	William Nordhaus	The essentials of energy and environmental economics, with applications. Analysis of core topics in public goods, intertemporal choice, uncertainty, decision theory, and exhaustible resources. Applications include energy security, nuclear power, the relationship between nuclear power and nuclear proliferation, and climate change.
Political Economy & Governance in Health	Democratic Politics and Public Policy in Contemporary Africa	EP&E 499 Section 01, CRN 12944 Same As: AFST 400, section 01 Same As: PLSC 401, section 01	Jeremy Seekings	Examination of how the resurgence of competitive, multi-party elections in Africa has reinvigorated democratic governance and transformed the process of public policy-making. Emphasis on the political landscape of public opinion and voting behavior; elections and political parties; the state and governance; as well as policy-making, with focus on economic and social policies.
Political Economy & Governance in Health	Market Liberalism, Socialist Planning, and Ideas of Development	EP&E 234 Section 01, CRN 12900	Nicoli Natrass	Exploration of market liberalism, socialist planning, and contestation over the role of the state in the idea of development. Study of key classical economists; Marxism and Utopian socialism; how collectivisation was applied in the Soviet Union and in the African context; and discussion of the rise of development economics, highlighting the work of W. Arthur Lewis and Amartya Sen.
Understanding & Interpreting Quantitative Data	Data Exploration and Analysis	S&DS 230 Section 01, CRN 11901 Same As: S&DS 530, section 01 Same As: PLSC 530, section 01 Same As: F&ES 757, section 01	Ethan Meyers	Survey of statistical methods: plots, transformations, regression, analysis of variance, clustering, principal components, contingency tables, and time series analysis. The R computing language and Web data sources are used. Prerequisite: a 100-level Statistics course or equivalent, or with permission of instructor.
Understanding & Interpreting Quantitative Data	Major requirement stats course fulfillment			Please contact Joseph and/or Kristina if you have taken an entry level statistics course for your major requirements
Understanding & Interpreting Quantitative Data	Computational Tools for Data Science	AMTH 262 Section 01, CRN 11906 Same As: S&DS 262, section 01 Same As: S&DS 562, section 01	Staff	Introduction to the core ideas and principles that arise in modern data analysis, bridging statistics and computer science and providing students the tools to grow and adapt as methods and techniques change. Topics include principle component analysis, independent component analysis, dictionary learning, neural networks and optimization, as well as scalable computing for large datasets. Assignments will include implementation, data analysis and theory. Students require background in linear algebra, multivariable calculus, probability and programming. Prerequisites: after or concurrently with MATH 222, 225, or 231; after or concurrently with MATH 120, 230, or ENAS 151; after or concurrently with CPSC 100, 112, or ENAS 130; after S&DS 100-108 or S&DS 230 or S&DS 241 or S&DS 242.
Understanding & Interpreting Quantitative Data	Probability and Statistics	S&DS 238 Section 01, CRN 11902 Same As: S&DS 538, section 01	Joseph Chang	Fundamental principles and techniques of probabilistic thinking, statistical modeling, and data analysis. Essentials of probability, including conditional probability, random variables, distributions, law of large numbers, central limit theorem, and Markov chains. Statistical inference with emphasis on the Bayesian approach: parameter estimation, likelihood, prior and posterior distributions, Bayesian inference using Markov chain Monte Carlo. Introduction to regression and linear models. Computers are used for calculations, simulations, and analysis of data.
Understanding & Interpreting Quantitative Data	Foundations of Epidemiology and Public Health *Graduate Course	EPH 508 Section 01, CRN 13616	Linda Nicolai	This course presents an introduction to epidemiologic definitions, concepts, and methods. Topics include history of epidemiology, descriptive epidemiology, measurement of disease occurrence and association, study design (ecologic, cross-sectional, case-control studies, cohort, and intervention), surveillance, measurement validity and screening, random variation and precision, bias, confounding, effect modification, and causality. The course also teaches skills for quantitative problem solving and for understanding epidemiologic concepts in the published literature.