SCIENCE IN SOCIETY PROGRAM

The sciences and scientifically sophisticated medicine and technology are among the most important and far-reaching human achievements. Scientific work has affected people's intellectual standards, cultural meanings, political possibilities, economic capacities, and physical surroundings. Scientific research has also acquired significance, direction, authority, and application within various cultural contexts. To understand the sciences as human achievements is, in significant part, to understand the world in which we live.

The Science in Society Program (SISP) is an interdisciplinary major that encourages the study of the sciences and medicine as institutions, practices, intellectual achievements, and constituents of culture. Students in the program should gain a better understanding of the richness and complexity of scientific practice and of the cultural and political significance of science, technology, and medicine. The major is well suited for students interested in a variety of professional and academic pursuits after graduation, since it encourages students to integrate technical scientific knowledge with a grasp of the historical and cultural setting within which it is understood and used.

FACULTY

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VISITING FACULTY

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Jill Morawski

- Undergraduate Science in Society Major (catalog.wesleyan.edu/departments/sisp/ugrd-sisp)

SISP109 Psychology and Technologies of the Self and Social World

The psychological sciences are generating novel and remarkable understandings of individual minds, social interactions, groups, and institutions, and these findings are being extended to benefit individual and social welfare. As we dwell in a world increasingly understood in psychological terms and managed through psychological technologies, crucial questions warrant attention. What are the implications of adopting these new understandings of self and others? Does this new knowledge change us and, if so, how? How do we assess the consequences of this knowledge as it is implemented in social practices? These questions guide our examination of cases where psychological knowledge has informed new practices and policies. The cases include research on decision-making, integration, positive psychology, psychopharmacology, stress, and attitudes. Also considered will be instances where psychological ideas have been implemented then challenged, including psychosurgery and token economies.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-PSYC
Identical With: PSYC109
Prereq: None

SISP113 Care and Suffering

In this introductory course, we will explore the production and representation of human suffering, in addition to the modes of care deployed by healers, kin groups, aid workers, and state actors to alleviate the suffering of others. We will begin by mastering dominant approaches within anthropology for studying affliction. We will then examine case examples of bodies in distress. We will discover that suffering is inherently social: it is shared, socially produced, and communicated through socially learned and sanctioned means. Suffering is also social in the sense that it often begs a moral response. With that in mind, we will turn our attention to different regimes of care—such as experimental, pharmaceutical, and humanitarian care—and explore their limitations, paradoxes, and transformative possibilities. Taken as a whole, the course will invite students to question the creation and reproduction of suffering, while at the same time critically reflecting on dominant norms and forms of "doing good."

As a first-year seminar (FYS), this course will also guide and support students in fostering skills as academic researchers and writers. We will start from the position that college-level academic writing is its own genre, distinct from the kind of writing typically taught in high school, and that the steps required to hone this skill are not always transparent, self-evident, or without challenges. As such, the course will include detailed instruction, regular in-class writing exercises, and three take-home writing assignments designed to introduce students to the main principles of successful academic writing.

Offering: Crosslisting
Grading: OPT
Credits: 1.00
Gen Ed Area: SBS-ANTH
Identical With: ANTH113
Prereq: None

SISP118 Reproduction in the 21st Century

This course will cover basic human reproductive biology, new and future reproductive and contraceptive technologies, and the ethics raised by reproductive issues.
might be wrong with privacy rights discourse? Which groups are always already surveilled? In this class, students will play with notions of surveillance—including sousveillance, lateral surveillance, and counter surveillance—as engaged by queer and feminist studies, the cultural anthropology of expertise, and social studies of science and technology. We will draw on case studies ranging from police technologies, facial recognition software, PornHub’s data collection projects, TSA airport body scanners, Facebook ads, science fiction like Black Mirror, and more to understand how bodies, races, genders, and sexualities are made known and contested by activists, artists, corporations, and governments. Students will also collect data for a creative personal surveillance project culminating at the end of the quarter.

Offering: Host
Grading: OPT
Credits: 1.00
Gen Ed Area: SBS-SISP
Prereq: None

SISP202 Philosophy of Science
This course is a fast-moving introduction to some central topics in the philosophy of science, aimed at students with some college-level study of at least one natural science. Topics include the norms of scientific understanding or explanation; the relation between finished theories or explanations and ongoing research; the recognition and dissemination of discoveries; the justification of scientific claims; conceptual and technical (revolutionary) change in the science; the significance of instrumentation, experiment, and artifice in science; the places of laws, models, and causal relations in scientific understanding; and whether various sciences differ fundamentally in their aims, methods, and achievements. Considerable attention will be given to examples of scientific practice, both historical and contemporary.

Offering: Host
Grading: OPT
Credits: 1.00
Gen Ed Area: HA-SISP
Identical With: PHIL287
Prereq: None

SISP205 Sciences as Social and Cultural Practices
Philosophers long construed scientific knowledge as achieved and assessed by individual knowers, but recent work has recognized a greater epistemic role for scientific communities, disciplines, or practices and has taken seriously the social and cultural context of scientific research. This course surveys some of the social, cultural, and political aspects of sciences that have been most important for scholars in science studies, including differences between experimental, field, and theoretical science; the role of disciplines and other institutions in the sciences; interactions between science and its various publics; the politics of scientific expertise and science policy; the globalization of science; the social dimensions of scientific normativity, from metrology to conceptions of objectivity; race and gender in science; and conceptual exchanges between sciences and other discursive practices. The concept of the social will also receive critical attention in its purported contrasts to what is individual, natural, rational, or cultural.

Offering: Host
Grading: OPT
Credits: 1.00
Gen Ed Area: SBS-SISP
Identical With: ENVS205, PHIL288
Prereq: None

SISP206 Theorizing Science and Technology
How is scientific knowledge created? This course explores knowledge production as a social process and introduces students to the puzzles that animate social studies of science and medicine. Students will consider, for example, how technologies, training, laws, demographics, and work practices affect what we take to be matters of fact. This course sets the groundwork for upper-level courses in SISP.

Offering: Host
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-SISP
Prereq: None

SISP211 Health and Social Justice
How does health become a matter of social justice? In the context of a growing prominence of activist and advocacy groups that work toward health and justice, this course will consider: how and why health advocacy groups emerge; what goals, values, and assumptions inform their work; and how they use science and other cultural resources to make claims. We will also consider the implications of activist efforts for challenging structural inequalities, state and corporate power, and the cultural authority of science and medicine. Case studies will cover a range of geographical sites in the U.S. and abroad and represent the diverse forms that such collectives assume. We will consider, for example, groups that mobilize around broad constituencies (e.g., women’s health) or in response to specific health threats (e.g., cancer, HIV, and toxic exposures), as well as those more broadly committed to social justice, equity, and “health for all.” In addition to exploring the above questions, readings and class discussion will be designed for students to master some of the concepts and ideas central to medical anthropology, science and technology studies, and allied fields, such as embodiment, medicalization, biosociality, hegemony, citizenship, and the production of scientific and lay knowledge. The role of the scholar-activist will also be addressed, including the particular ethical and methodological questions that arise when scholars seek to combine research and activist agendas.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-ANTH
Identical With: ANTH211
Prereq: None

SISP215 Metabolism and Technoscience
This course will investigate the scientific idea of metabolism through the lens of technoscience. Metabolism is a flexible and mobile scientific idea, one that has been applied at the micro-level of analysis within biological organisms, at the meso-level of social collectivities, and at the macro-level of global ecologies. Metabolism encompasses all of the biological and technosocial processes through which bodies (both human and not human) and societies (again, human and not) create and use nutrients, medicines, toxins, and fuels. The lens of technoscience enables us to investigate the technological and scientific practices that define and drive metabolic processes within sciences, cultures, and political economies. These processes implicate forces of production, consumption, labor, absorption, medicalization, appropriation, expansion, growth, surveillance, regulation, and enumeration. Accordingly, as we will learn, metabolism is also a profoundly political process that is inextricably linked to systems that create structural and symbolic violence as well as modes of resistance and struggle.

In these contexts, we will interpret some of the most pressing metabolic crises facing human societies, including ecological disaster, industrial food regimes, metabolic health problems, and industrial-scale pollution.

Offering: Host
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-SISP
Prereq: None

SISP217 Bioethics and Social Justice
"Health has replaced salvation," wrote the 19th-century philosopher of medicine José Miguel Guardia. This course will examine the increasing importance that health, medicine, biotechnology, and health care systems have taken in contemporary societies. Dramatic changes in medicine allow us to prolong life
and treat disease in previously unimaginable ways, even as these same changes open the door to new forms of exploitation, violence, racism, and oppression in the name of medicine itself. Our goal will be to grasp the ethical and philosophical significance of these contradictions. We will begin by examining some of the most prominent medical abuses of the 20th-century, including the Tuskegee syphilis trials and the lingering effects of eugenics and Social Darwinism. Then we will consider the mainstream response in U.S. ethics to these abuses—the creation and institutionalization of the discipline of bioethics—and the critics of this response. From there, we will reflect on the limits of the bioethics approach in light of the current global crises of health, life, and medicine. Readings will include selections from philosophical bioethics (including continental approaches, such as Canguilhem, Foucault, and Fanon), the history of medicine, the social sciences, and current journalism.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-PHIL
Identical With: PHIL217
Prereq: None

SISP221 History of Ecology
The word “ecology” has come to have many meanings and connotations: a scientific field dealing with the relation of organisms and the environment, a way of thinking about the world emphasizing holism and interconnection, a handmaiden of the environmental movement, to name a few. This course covers the history of ecology as a scientific discipline from the 18th-century natural history tradition to the development of population, ecosystem, and evolutionary ecology in the 20th century, situating the science in its cultural, political, and social contexts. Along the way, it traces the connections between ecology and economic development, political theory, ideas about society, the management of natural resources, the preservation of wilderness, and environmental politics. How have scientists, citizens, and activists made use of ecological ideas, and to what ends? How have they understood and envisioned the human place in nature? How have the landscapes and places in which ecologists have done their work shaped their ideas? Other major themes include the relationship between theories of nature and theories of society, ecology and empire, the relationship between place and knowledge about nature, the development of ecology as a professional discipline, the role of ecologists as environmental experts, the relationship between the state and the development of ecological knowledge, and the relationships among ecology, conservation, agriculture, and environmentalism.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: ENV5211, HIST221
Prereq: None

SISP222 Disease and Epidemics in Historical Perspective
Disease and epidemics have been powerful agents of historical change as well as determinants of human development before the advent of historical records. In this lecture course we will examine how diseases have changed human societies over time, with special attention given to the place of disease-causing organisms, from viruses to parasites, in the ecological networks they make home. Yet at the same time, we will keep in mind the ways in which human society and culture also have important causal roles in human disease. HIV, for example, arose because of human interactions with animals but reached epidemic proportions, in part, because of cultural, social, and political forces.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: HIST222
Prereq: None

SISP225 Darwinian Fictions
This class tracks the discourse surrounding evolutionary science as it circulated through various spheres of American intellectual life in the decades after the Civil War. If the ideas proposed by Charles Darwin and Herbert Spencer fundamentally changed the way scientists and politicians understood the natural world and human beings’ relation to it, these ideas would also influence the way writers understood the function of literature. Best summed up by Emile Zola’s suggestion that, through literature, we are capable of “possess[ing] knowledge of man, scientific knowledge of him, in both his individual and social relations,” authors during this period began to explore the literary possibilities of evolutionary science. By reading works of literature alongside influential scientific treatises, this course encourages students to think about the kinds of knowledge literary experience gives us access to, and the relationship between literary knowledge and other disciplinary forms that emerged at the turn of the twentieth century.

Offering: Crosslisting
Grading: OPT
Credits: 1.00
Gen Ed Area: HA-ENGL
Identical With: ENGL225, AMST257
Prereq: None

SISP230 Anti-Psychiatry
This course will investigate anti-psychiatry, the social and scientific movement that has critically analyzed and opposed psychiatry as a field of medicine. No field of medicine is more deeply implicated in creating and legitimating human suffering than psychiatry, from the role that psychiatry plays in managing people’s daily lives to the administration of the criminal justice system. We will ask how social and psychic traumas are transformed into discrete psychiatric disorders by exploring the cultural production of diagnostic criteria used to diagnose and the psychopharmacological drugs that are used to intervene on mental states.

Offering: Host
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-SISP
Prereq: None

SISP235 Economies of Death, Geographies of Care
Living, dying, and care work are processes often governed by economic logics that render some lives killable and others grievable in global regimes of power. This course explores how theoretical frameworks of “economies of death” and “geographies of care” can help to illuminate how human and nonhuman lives, deaths, and systems of care are intertwined with economic logics. Whose lives are privileged over others and with what consequences? How are certain bodies made killable and others grievable? How do we live and die well, give and receive care, and who has this privilege? This class interrogates these and other questions related to how we live and die with others in a multispecies world. With attention to race, gender, species, and other sites of perceived difference, students will gain a nuanced understanding of core themes related to fundamental processes of living, dying, and caring labor. This course asks students to theorize economies of death and geographies of care to understand the deeply political nature of life and death as differential moments on a continuum of being. We focus on key questions related to an affirmative politics of life—in other words, how we should live, how we care for and whom, and how we might foster nonviolent interpersonal life-affirming encounters. Students can expect to explore pressing contemporary issues such as mass incarceration and “social death”; climate change; valuing and commodifying life; breeding and raising nonhuman animals for food; plant consciousness; end-of-life care and euthanasia; and the role...
of marginalized bodies in biomedical research. The course will be primarily discussion-based.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-FGSS
Identical With: FGSS238
Prereq: None

Witnessing, mourning, and haunting are frameworks that make political the lives and deaths of human and nonhuman others. Bringing these frameworks into conversation, this course will explore the following questions: What does witnessing and grieving animal lives and deaths show us about economic logics, racialization, and species hierarchies that form the foundation of contemporary social relations? How does the emotional become political in these contexts? What are the limits and possibilities of witnessing and mourning as political acts? How is witnessing distinct from spectatorship or voyeurism? What power dynamics exist in witnessing? What do different rituals or practices of mourning say about the mourner and the subject being mourned? What further action does witnessing or mourning provoke or demand? How do conceptualizations of haunting help to theorize and inform political practices of witnessing and mourning? Central to these questions is a consideration of the way histories track forward and haunt the present—how racialized, gendered, and anthropocentric histories shape contemporary social and economic relations. The course will use these theoretical frames to explore a series of empirical examples, such as: What does it mean to witness and mourn the settler-colonial histories that haunt the present in daily practices of ranching and farming animals for food? How are settler-colonial histories implicated in the phenomenon of animals killed on roads (innocuously termed roadkill) through the development of the U.S. railroad and interstate highway system and through land use change and habitat destruction? What does witnessing the captive animal in the zoo tell us about the imperialist histories of the zoo where humans and animals have been exhibited? What does witnessing or mourning do for the ghostly specters of “spent” dairy cows (lively-yet-soon-to-be-dead commodities) moving through the farmed animal auction yard and for their commodity afterlives born through slaughter and rendering? How does art act as a form of witnessing, for instance, through photographers such as Chris Jordan documenting the afterlives of plastic in the bellies of albatrosses on Midway Island? Throughout the semester, we will use art, fiction, poetry, and memoir to explore these frameworks of witnessing, mourning, and haunting in the context of animal lives and deaths. The course will be heavily discussion-based.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-FGSS
Identical With: FGSS238
Prereq: None

Pocket computers, called “smartphones,” have become a part of everyday life over the past decade. Earlier, during the early years of the Internet, eBay pioneered the "peer-to-peer" marketplace, in which a business doesn’t have a place of business and hire employees, but provides software that links "users" to one another so that they can make exchanges, serving the roles of "customer" and "employee." The firm that creates the software takes a commission on the sale, or simply profits from the information it gathers about the users as they make the exchange. Massive amounts of economic activity have been generated using this model: through services like Amazon’s Mechanical Turk, Uber, Postmates, TaskRabbit, and many other software-based labor markets that allow people to work when they choose, as little or as much as they choose. How do we study work and workers in these kinds of contexts? This course will train students in the use of qualitative social scientific methods to examine these new working populations and the work experience of people in them. We will draw, in part, from earlier studies of mobile workplaces (such as of the police on patrol), and more recent studies undertaken by scholars of science and technology in society that help us to look for labor even where it is not intuitively evident in the digitally networked context: such as in computerized gambling, software-facilitated dating, and activity on social media. Students will read a National Science Foundation research proposal and draft their own proposal for a study of work in the “on-demand,” “contingent,” and “gig” economy of the twenty-first century.

Offering: Host
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-SISP
Prereq: None

SISP245 Ethnography and Design
Exercising humility and developing methods of meaningful engagement are essential to becoming an effective ethnographer and designer. Collaboration with users provides knowledge that allows designers to imagine artifacts, places, and systems that are thoughtfully enhanced or radically new. This course rethinks power dynamics to better understand how to design both for and with other people. With successful completion of this course students will be able to demonstrate competence in developing, refining, and communicating research interests in a committed, reflexive manner. They will gain an understanding of the strategic and tactical value of design and a sense of the practical problems involved in realizing design solutions and responses that are attuned to the needs of both an institution and individual users. Students will gain experience not only in theoretically framing social and political issues as these are expressed through design, but also in understanding the methodological tools needed to translate problems into creative interventions that are user-centered and compassionate.

Offering: Host
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-SISP
Identical With: CSPL245
Prereq: None

SISP253 Science and/as Literature in Early Modern England
Seventeenth- and 18th-century England saw the development and popularization of the “new science.” Microscopes, telescopes, airpumps, automata, and experiments captured the popular imagination. The first important scientific societies and journals were founded, and the public learned about new discoveries through sermons and coffeehouse lectures. This course will trace the literary reaction to these cultural changes. A female natural philosopher wrote utopian science fiction, and Jonathan Swift satirically skewed mathematicians and experimenters. While the best of early 18th-century nature poetry taken Newton quite seriously as it depicts the way light glimmers off objects, by the century’s end, William Blake villainized Newtonian thought as reductive and deadening. We will try to understand what writers found exhilarating, scary, confusing, hilarious, or important about science at this key moment of its development. At the same time, we will read this science as literature—considering, say, Francis Bacon’s symbolically fraught “idols” and Robert Boyle’s “literary technology,” the role of poetry in spreading scientific ideas, and the importance of analogy and metaphor to the very logic of scientific thought. The disciplines of science and literature were not as cleanly separated in this period as they are now, and we can better understand both by exploring their intersections.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: HA-ENGL
Identical With: ENGL253
Prereq: None

SISP254 Science in Western Culture
This course offers an introduction to the history of the sciences between the late 17th and early 20th centuries, with the aim of understanding the varied ways of knowing that have come to be called "science" and how they have attained such an important status in shaping modern Western culture. To do so, we will both investigate key intellectual developments—such as Newtonianism, theories of energy and matter, and the rise of evolutionary thought—and consider these ideas in the cultural contexts in which they developed to better understand how people have "done science" in different times and places.

Throughout, we will pay attention to the relationships between science and other knowledge systems, between scientists and nonscientists, and between science and state power by exploring the changing nature of scientific authority, the cultural status of the scientist, and the connections among science, commerce, technology, and empire.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: HIST254
Prereq: None

SISP255 Seeing a Bigger Picture: Integrating Environmental History and Visual Studies
This interdisciplinary course approaches the history of environmental policy and opinion making through a frame that takes seriously the rise in power accorded to visual imagery and visual practices (including photography, digital image production, film and new media) in modern society. The course introduces students to key landmarks in the visual history of environmentalism spanning a period from colonial America to the recent past, focusing both on images of nature and on the nature of images.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: ARHA262, HIST262, ENV255
Prereq: None

SISP256 Race and Medicine in America
This course will follow the transformation of medicine from the art of healing to the science of disease. What kind of science has medicine become? How has the professionalization of medical practice and the commercialization of medical science altered our experience of being a patient and our understanding of health and illness? These questions will guide our exploration of both historical documents and analytical pieces from the vast scholarship on the social studies of medicine. Though much of the focus will be on the American context, a thorough exploration of these issues, particularly in the 20th century, will require us to venture far beyond our national borders.

Offering: Host
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-SISP
Prereq: None

SISP257 Japan and the Atomic Bomb: History, Myths, and Mysteries
Even today, when discussing the atomic bombings of Hiroshima and Nagasaki, newspaper and other media sources often refer to "Truman's decision" to drop the bomb, the idea that these bombings conclusively brought an end to World War Two, arguments that they saved more lives than they killed, and assertions that the United States would not have dropped the bomb on Germany since its citizens were white. But what do the historical sources actually say on these and other related points? This course emphasizes the use of archival sources to address these and many other issues. It establishes the historical context for the atomic bombings of Japan by tracing events that led to the War in the first place, how civilians became the targets of mass bombings, and the scientific discoveries that made nuclear weapons possible. It also examines how after the War the American press and government strove to establish a particular perspective on the atomic bombings of Japan. By the end of this course students will have a much better idea about the historical facts, the popular myths, and remaining mysteries related to the bombings of Hiroshima and Nagasaki.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: HIST256, CEAS226
Prereq: None

SISP258 The Evolution of Scientific Medicine
This course surveys major developments in psychology and psychiatry from 1860 to 1980. Through readings and lectures, the course introduces the major schools, theories, and systems in the American "psy" sciences. We examine the kinds of persons who were "discovered," the techniques of discovery, the extensions of psychological ideas to institutions and policy formulations, and the consequences of these discoveries for public as well as private life. We examine psychological phenomena that were located, catalogued, and explained by these sciences, including irrationality, sexuality, cognitive powers, personality, emotional processes, neurotic behaviors, intelligence, addictive tendencies, and the will. Attention is also given to the scientific grounds for investigating persons, the empirical evidence sought in the century-long process of discovering and naming psychological kinds, and the modes of producing this knowledge (aggregate methods, case study, and theories). Readings include primary source documents, histories of the disciplines, and philosophical analyses.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-PSYC
Identical With: AMST259, PSYC259
Prereq: PSYC105
In this course, we will explore the construction of the animal/human boundary through the lens of bioethics. We will define bioethics as the study of the ethical consideration of medical, scientific, and technological advances and their effects on living beings. At the same time, we will pay close attention to the cultural contexts in which these advances emerge, imagining the realms of scientific progress and popular culture as mutually constitutive. We will consider topics such as cloning, organ transplantation, pharmaceutical testing, and gestational surrogacy, with a focus on the late 20th and early 21st centuries.

We will begin by interrogating how ideas of the “animal” and the “human” are constructed through biomedical and cultural discourses. We will ask, How is the human defined? By intelligence or consciousness levels? By physical capabilities or esoteric qualities? Similarly, how has the human been defined against ideas of the animal? Or, what ethical justifications have been cited in the use of animals in biomedicine? What makes certain species “proper” research subjects and others not? What do these formulations tell us about our valuation of animal and human life, and what kinds of relationships exist between the two? To answer these questions, we will consult a wide range of interdisciplinary scholarship, from authors in the fields of animal/ity studies, bioethics and medicine/science history, sociology, anthropology, and philosophy. Students will also be exposed to the basics of biopolitical theory.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-AMST
Identical With: AMST260
Prereq: None

**SISP262 Cultural Studies of Health**

Nothing is more fundamental to the human condition than our most basic right—the right to healthy life. Tragically, this right is inequitably distributed across human bodies and populations, especially along axes of race, gender, class, age, and nationality. In fact, persons residing in the U.S. do not have a right to healthy life. Issues of health and illness are, quite literally, matters of life and death that are shaped by broader political and economic institutions in human societies. In neoliberal nation states like the U.S., the guardian of the right to live a healthy life is a highly bureaucratic and technological form of corporate medicine. Medicine comprises a network of social institutions and technoscientific practices that people have created and use to diagnose and heal our bodily and psychic ills. While the practice of medicine has produced dramatic improvements in life expectancy and quality of life for billions of people, most people on the planet do not have access to basic medical care. Who thrives, who gets sick, who dies, and why constitute core questions for social justice.

This course investigates the complex embroidery of biosocial and cultural processes that shape the unequal experiences and meanings of health. Cultural studies of health document the role of medicine as a great instrument of power that both generates and alleviates suffering. As more and more areas of social life and parts of bodies are falling under the control of medicine (a process called medicalization), we must ask, What are the dynamics and implications of medicalization for human societies and cultures? Drawing on provocative readings and media from diverse fields in sociology and cultural studies of science, technology, and medicine, this course will investigate these questions and more with an emphasis on the answers to them might contribute to social justice and improve the conditions necessary for human thriving.

Offering: Host
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-SISP
Identical With: SOC259, AMST272
Prereq: None

**SISP264 Social and Cultural Studies of Science**

This course provides a survey of theories and methods attending the social and cultural study of science and technology. Students will consider the role of design (such as by engineers) and use (such as by consumers), and will learn historical perspectives that frame the question of whether scientific and technological innovation, and the social and cultural configurations involved, are really “new.”

Offering: Host
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-SISP
Prereq: None

**SISP265 Introduction to Science as Culture**

What are scientific facts? How do we know what we know? In this course, students will gain an introduction to thinking about science and technology as cultural practices shaped by power, politics, race, indigeneity, gender, and sexuality. Students will explore how anthropologists, long interested in how “culture” works, have recently turned their gaze toward critically examining the cultures of people in positions of technoscientific power, including nuclear scientists, Wall Street analysts, drone weapon designers, climate scientists, molecular biologists, and more. Students will also be trained in conducting ethnographic fieldwork on a group of experts in their own communities in order to ask questions about scientific rituals, truth-making, and distributions of power and privilege.

Offering: Host
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-SISP
Prereq: None

**SISP267 Introduction to History: Science in the Making: Thinking Historically About Science**

This course introduces students to a range of perspectives—drawn from history, sociology, anthropology, geography, media studies, and literary studies, among others—on how to write about the history of science. Throughout, the emphasis is on understanding the relationship between the histories of science we can tell and the materials that our histories draw upon, from publications and archival documents to oral histories, material culture, and film. In addition to reading academic literature, students will gain practical experience working with historical sources and conducting original research. They will also familiarize themselves with new digital tools for presenting historical materials by developing a course website that showcases their research projects.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: HIST176
Prereq: None

**SISP281 Post-Kantian European Philosophy**

In this study of 19th- and 20th-century philosophy in Europe (primarily France and Germany), special attention will be devoted to the interpretation of modern science, its significance for understanding the world as distinctly modern, and ourselves and the world as natural (or as transcending nature). Related topics include the scope and limits of reason, the role of subjectivity in the constitution of meaning, the place of ethics and politics in a science-centered culture, and the problems of comprehending historical change. Philosophers to be read include Kant, Hegel, Marx, Nietzsche, Husserl, Heidegger, Weber, Marcuse, Habermas, and Foucault. The course is designed to introduce students to a very difficult but widely influential philosophical tradition and will emphasize close reading and comparative interpretation and assessment of texts and reasoning. This course meets the Social, Cultural, and Critical Theory Certificate’s requirement in philosophical origins of theory.

Offering: Crosslisting
SISP286 History of Science and Technology in Modern China
Science, technology, and medicine played an integral role in the China's transition to modernity and inspired dramatic economic, social, and political transformations. As scholars of modern China developed a keen interest in transnational histories and comparative methodologies, they have paid closer attention to the histories of science, technology, and medicine. This course introduces students to this emerging field of study. It examines broad philosophical questions that motivate the research in history of those areas. We will learn to explore science, technology, and medicine in China on "its own terms" by understanding how the unique political and social challenges of modern China shaped Chinese science.
Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: CEAS222, HIST386
Prereq: None

SISP286 Philosophy of Mind
This class is a philosophical investigation into the nature of the mind. We will explore such questions such: What kinds of beings are capable of having mental states? Can non-human animals or computers think and feel? What is it to be conscious, and can the subjective, first-person experience of consciousness be adequately captured by a scientific theory? How do our minds represent the world? By what mechanism do our thoughts, feelings, and desires get linked up to the things around us? We will ask these questions with the goal of shedding light on our nature as thinking, feeling beings, and on the relation of our inner lives to the physical world.
Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-PHIL
Identical With: PHIL286
Prereq: None

SISP290 Black Phoenix Rising: Death and Resurrection of Black Lives
The Black Lives Matter Movement has renewed our collective need to theorize the value of black lives within a deluge of death and disappearance in black communities. This movement is part of a deep transnational tradition in black radical praxis that aims to transform scholarly, activist, and public discourse and public policies concerning the systemic and epistemic effects of institutional racisms and the prospects for antiracist futures. How might we envision a black radical praxis that simultaneously recognizes the vitality of black lives and challenges the cultural ideas and social practices that generate and justify black people's death and suffering? This seminar traces a genealogy of black radical praxis that interrogates the necropolitics of race and positions this system of power against the prospect of thriving black people. In doing so, the course erects an interdisciplinary theoretical framework that features scholarship in critical race science studies, intersectionality, and transnational cultural studies as they inform how a black radical praxis can contribute to the uprising and raising up of black communities.
Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: HA-CHUM
Identical With: AFAM300, CHUM300
Prereq: None

SISP287 Science in Modernity and After: 20th-Century Science and Technology
This course will examine the intertwined histories of science and technology during the 20th century and beyond through the lens of three key technologies: nuclear weapons, computers, and recombinant DNA. By examining the intellectual, cultural, and social context out of which these technologies emerged and in carrying their story forward almost to the present, the course aims to understand the changing nature of science and technology in modernity and postmodernity.
Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-GOV
Identical With: HIST287
Prereq: None

SISP287 Science in Modernity and After: 20th-Century Science and Technology
This course will examine the intertwined histories of science and technology during the 20th century and beyond through the lens of three key technologies: nuclear weapons, computers, and recombinant DNA. By examining the intellectual, cultural, and social context out of which these technologies emerged and in carrying their story forward almost to the present, the course aims to understand the changing nature of science and technology in modernity and postmodernity.
**SISP305 Moral Ecologies and the Anthropology of Vitality**
What is vitality? How is vitality nurtured? What hinders vitality? How might we participate in the flourishing of all life? This course will explore the "anthropology of vitality" to designate a body of emerging literatures in anthropology, science studies, religious studies, human geography, and ecological humanities centered on questions of the health, wealth, and vitality of communities understood to include both the human and the nonhuman worlds. Much of this literature is emerging in response to the intertwined global crises of social and environmental justice and a corresponding urgent call for a new ethics. We will approach these concerns as an issue—moral ecology—in response to Michel Foucault’s point in THE ORDER OF THINGS (1970) that “modern thought has never been able to propose a morality.” The authors we will read work across the nature-culture ontological divide by expanding modes of reasoning to bring together, for example, medicine and ecology, ritual and environment, nature and morality, politics and religion, cosmology and pragmatism, gift exchange and the production of wealth, regeneration and death, knowledge and ethics. Topics include the meanings of prosperity and vitality, moral idioms of nature, animism, epistemologies of embodiment, ecological and cosmological reasoning and systems of classification, relational ontologies, death, waste and pollution, ecology and healing, ritual and world making.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-ENVS
Identical With: ANTH303, ENV305
Prereq: None

**SISP307 The Economy of Nature and Nations**
On many of the key environmental problems of the 21st century, from climate change to biodiversity conservation, the perspectives of ecology and economics often seem poles apart. Ecology is typically associated with a skeptical stance toward economic growth and human intervention in the environment, while economics focuses on understanding (and often, celebrating) human activities of production, consumption, and growth. At the same time, ecology and economics share a common etymology: both words spring from the Greek oikos, or household. They also share much common history. This course thus explores the parallel histories of economics and ecology from the 18th century to the present, focusing on changing conceptions of the oikos over this period, from cameralism’s vision of the household as a princely estate or kingdom, continuing through the emergence of ideas about national or imperial economic development, and culminating in the dominant 20th-century recasting of economics as being centrally concerned with problems of resource allocation. Simultaneously, the course explores connections between changes in economics and the emergence of ecological science over this period, from Enlightenment natural history and early musings on the “economy of nature,” to the design of markets for carbon credits today.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: HIST307, ENV307
Prereq: None

**SISP310 Transnational Comparison of Technology Regulation in the U.S. and Europe**
A key insight of the sociological study of science is that science and technology are social and cultural as well as scientific and technical things. This relativist philosophical stance has generated a robust research program into what science and technology are in social and cultural context. This course on the social and cultural study of science and technology will teach the theory and practice of transnational comparative research, drawing both on classical and new texts in the field, and on the professor’s own experience studying technology in two different national contexts (the U.S. and Denmark).
sexuality—work to constitute ideas of able-bodiedness? Finally, how does the treatment of disabled bodies, and their relationship to technological progress, speak to broader anxieties about the nature of human embodiment in the modern world?

To consider these and other questions, we will consult a wide range of texts, focusing primarily on disability studies scholarship but also including perspectives from scholars of law, history, ethnography, queer studies, critical race studies, and science and technology studies.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-AMST
Identical With: AMST317
Prereq: None

SISP318 Critical Global Health
What does it mean to approach global health as not an applied science but an ethnomethod object? This course will explore this question by bringing critical, social science perspectives to bear on global health issues and interventions. This course covers three areas of scholarship. First, we will examine the processes by which social inequalities produce patterns of health and disease in globalizing contexts. This will be followed by an interrogation of the term "global health," in which we will trace its emergence as a discourse and enterprise and unpack its contested meanings. While some view global health as a clinical practice, others conceptualize it as a business, security concern, charitable duty, or human right; yet another camp probes the term's ideological construction. We will consider how such vantage points are underpinned by cultural assumptions and ethical agendas that, in turn, can determine how, and to whom, care is delivered. As a third area of inquiry, we will investigate the implications and unintended effects of doing global health by probing such questions as, When are good intentions not good enough? How useful is biomedicine for alleviating locally defined problems? Under what conditions does global health exacerbate the social inequalities it seeks to overcome?

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-ANTH
Identical With: ANTH316
Prereq: None

SISP320 Life and Death: Relations of Biopower and Necropower
This seminar is an advanced examination of how science and technology shape the politics of life and death. We will consider how science and technology have become handmaidens to human (and, in some cases, nonhuman) life and "dead." Using theories of biopower and necropower as our guides, we will cover a diverse set of themes including sexual reproduction, birth, population, toxicity, decay, genocide, mortality, and the afterlife as they intersect with modern institutions of power. We will ask, How can we better understand the ways in which social institutions and actors deploy sciences and technologies to foster health or manufacture death?

Offering: Host
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-SISP
Identical With: SOC320
Prereq: None

SISP321 BioFeminisms: Science, Matter, and Agency
This course rethinks feminism's relationship to nature, the body, and biological matter in light of new considerations of ontology in science studies, cultural studies, and feminist thought. We will read contemporary treatments of science, of Darwin and evolutionary theory, of neurobiology and epigenetics, and other fields and disciplines that consider biological matter, and think about them in feminist and queer frameworks. Readings will include "new materialists" alongside other works on the "new biology" and the "new sciences," and we will also revisit some second- and third-wave feminism. The course raises issues that challenge traditional boundaries of the body and self, conventional ideas of agency, and dualisms of mind/body. Readings include works by Donna Haraway, Anne Fausto-Sterling, Elizabeth Grosz, Karen Barad, Vicki Kirby, and Elizabeth Wilson, among others.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-FGSS
Identical With: FGSS321
Prereq: None

SISP324 Race and the Enlightenment: A Historical and Philosophical Enquiry
It was during the Enlightenment Era (c. 1760-1800) that scientific reasoning, a belief in progress, and new claims on personal and political liberty swept away a tenacious medieval worldview. It was also during this era, however, that the notion of race crystallized in European and North American thought. Today, we still live with implications of this major shift, be it in classification schemes, anatomical prejudices, or ethnographical myths. This is particularly true for Africans or people of African descent. This class will bring some of the Enlightenment's most prominent thinkers into dialogue with the emergency of the concept of race theory. In particular, we will focus on the clash between the Enlightenment era's belief that "all men were created as equals" and the various ways that the Black African came to be studied within "natural history" and various philosophical models. This historical backdrop will lead us not only to a discussion of the economic imperatives of human slavery but to a series of contemporary reflections on the status of the Enlightenment put forward by postcolonial critics. Note: This class is offered in the context of the Wesleyan's Center for the Humanities' "Grand Narratives/Modest Proposals" theme and speakers series during the Spring 2018 semester.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-AFAM
Identical With: AFAM325, FIST325, CHUM324
Prereq: None

SISP325 Sociology of Medicine, Health, and Illness
This course will address the sociology of medicine, health, and illness from a range of critical perspectives and theoretical vantage points, including feminist social constructionism, actor network theory, the governmentality literature, queer theory, neomaterialist feminism, and disability studies. We will examine current manifestations of medicalization, health and illness, and biosociality as social products of the neoliberal context and will pursue both illness and disability as sites of social struggle. We will consider the promise and limits of social constructionism in understanding the sick body and the disabled subject; we will address the medicalization of impairments as well as trends in psychiatry; and we will look at the emerging transnational trade in organs, cell lines, and bioinformatics and consider how sociological frameworks can contribute to understanding these.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-FGSS
Identical With: SOC325, FGSS325
Prereq: None

SISP330 Race, Science, Gender, and Species
What does it mean to be human or animal? How are these socially constructed lines drawn, redrawn, enforced, and contested? How are categorizations and
contestations surrounding humanity and animality a concern for feminist scholars? How does critical theory help us to understand the (at times) uneasy intersections—or "dangerous crossings," as Claire Jean Kim calls them--where race, species, gender, and theories of science intersect to formulate ideas about humanity and animality? What theoretical and practical possibilities arise from exploring these overlapping taxonomies of power?

This course explores these questions, engaging in an ongoing conversation about how theories of science and law shape ideas about race, gender, and species. We will consider human and animal bodies in science and medicine. We interrogate how the human is a site of political contestation, articulated through colonial and racialized processes that render some lives human/subhuman/nonhuman within hierarchies of power and exclusion. Central to this uneven rendering of what it means to be human is the way law and legal processes criminalize and racialize human beings, and sustain anthropocentrism. Informed by these literatures, we move into exploring the possibilities and limits of posthumanism, with a particular emphasis on work that aims to decolonize posthumanist theory.

Within these theoretical frameworks, we move into thinking about the boundaries of the human/animal body; the politics of being and becoming in multispecies worlds; how fraught cultural and political cases where race and species intersect are negotiated; what the "feral" can add to these entanglements of race, species, and gender; the intertwining logics of species, colonialism, and empire; and how different ways of being embodied can inform a politics of multispecies care. We will conclude our work together for the semester with a collectively curated selection of readings, to be determined by our seminar.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-FGSS
Identical With: FGSS330
Prereq: None

SISP338 Masculinities
This course examines masculinities and the psychology of men using theories and research findings. We survey a range of perspectives on men and masculinity, drawing from evolutionary theory, cognitive psychology, psychoanalysis, social psychology, and queer theory. We will ask how the psychological attributes associated with men relate to private life and public spaces, and whether our enactments and conceptions of masculinity have changed over time. Exploration of these questions will be informed by both psychological research and close analysis of media representations; the course thus emphasizes methods for examining representations of masculinity in science and the media.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-PSYC
Identical With: FGSS338, PSYC338
Prereq: PSYC105 OR FGSS209 or ENGL208

SISP343 Imitations of Life: Experimental Bodies at the Interface of Science and Culture
This seminar will examine scientific and cultural practices of corporeal simulation, or, practices of bodily substitution, imitation, and re/modeling. Topics examined will include: reproductive surrogacy; gender reassignment surgeries; experimental subject protocols; prosthetic enhancements; xenotransplantation; biometrics and alternative forms of bodily imaging; the use of nonhuman animals as human proxies; the rise of personalized medicine, and more. Students will engage with a wide range of case studies and theoretical materials from interdisciplinary perspectives. Special attention will be paid to the relationship between scientific discourses of "universality" and "particularity," where socio-cultural forms of difference (e.g., race, gender, disability, etc.) are at once ignored and exacerbated. While most of the material addressed in the class will relate to recent phenomena, we will also be attentive to relevant histories of corporeal differentiation and reimagining.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: HA-CHUM, SBS-CHUM
Identical With: CHUM343, FGSS343, AMST343
Prereq: None

SISP344 The Rise of the Neurosciences
This course examines the expansion and proliferation of the neurosciences from the early modern period to the present. We will investigate the recent claim that we are living in the midst of a "neuro-revolution" with vast social, political, and economic consequences around the globe. Yet at the same time, we will look to the past for similar moments of transition and transformation of the modern sciences abetted by experiments on the nervous system. Students will analyze texts from Descartes to Damasio, paying attention to the rhetorical explanatory power of certain epistemic objects and instruments--samples of brain tissue, synaptic networks, clinical case histories, and MRI scans--as well as the institutional power shifts that sanctioned research practices such as vivisection, phrenology, electrophysiology, and functional imaging. Through our reading of primary sources by philosophers and physicians and secondary sources by historians and sociologists, this course will explore what is at stake in the "neuro-turn," and why it provokes such a mixed reaction of hope and hype, then as well as now.

Offering: Crosslisting
Grading: OPT
Credits: 1.00
Gen Ed Area: SBS-PSYC
Identical With: PSYC344
Prereq: None

SISP353 Health, Illness, and Power in America
In this class, we will explore the intersecting histories of health, illness, and power in America. Special attention will be paid to the ways in which discourses of the healthy body have undergirded notions of citizenship and belonging in the nation. We will consider how processes of disease, disability, and contagion have been imagined through the lenses of social difference, including race, gender, sexuality, and class. We will address civil institutions designed to manage individual and population health, and we will consider theories of political power in the making of the "modern" body.

Sample topics covered will include immigration policies and contagious disease scares; STDs and the politics of public health campaigns; physical fitness and the value of bodily labor under capitalism; the management of diseases that are symptomatic and those that are not; race- and gender-based approaches to medicine and medical difference; clinical trials and the ethics of human experimentation; regulations surrounding blood and organ donation; changing rituals of bodily hygiene; preventative medicine and the call to personal responsibility; mental health policies and institutions; and pride movements surrounding the "unhealthy" body.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-AMST
Identical With: AMST353
Prereq: None

SISP355 The 1918 Influenza Pandemic: A Research Seminar
This fall is the centennial of the 1918 influenza pandemic, which swept around the globe that year and caused an estimated 40 million deaths worldwide. It caused more deaths in the 20th century than any other event except World War II. In this seminar we will examine this pandemic from multiple perspectives with the goal of defining how understanding it changed from the time it occurred to...
the present. In class, we will examine contemporary journalistic and scientific accounts and various secondary sources, with the goal of establishing a starting point for student research projects that will be completed over the second half of the semester. We will explore sources in Olin Special Collections, various digital archives, Middletown and Connecticut State archives, and other collections as available. Possible outcomes for the class can be a paper, documentary, exhibition, or web resource.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: HIST355
Prereq: None

SISP360 Making the Psychological: Discovering, Manufacturing, and Circulating

Psychology is dedicated to explanations of human experiences and thoughts, including unconscious ones. Using the scientific method psychology produces representations of human nature, names them, and circulates this knowledge for its truth value and usefulness to society and individuals. Yet despite success in these aims, psychology is distinctive among the sciences in being challenged about the robustness of its findings, challenges that are evident in recent concerns about the reproducibility of experiments. We will explore the epistemic grounds of psychology’s truth claims and consider the alternative views that understand the truth claims as enactments, constructions, or ideologies that rehearse cultural beliefs. Case studies of science-based knowledge that was eventually found to be inaccurate or exaggerated (priming research; the power pose) is used to examine how truth claims are made and challenged. Case studies of robust research are used to explore how psychology’s truth claims acquire credibility inside and outside the laboratory as new scientific explanations. We ask, too, how these claims travel to be taken up as new ways for individuals to experience the self and social world. Throughout these explorations serious attention is given to the public’s and our own aspirations to expand consciousness and act otherwise.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-CHUM
Identical With: PSYC359, CHUM359
Prereq: PSYC105

SISP365 Nature Description: Literature and Theory

What happens to the world when we describe it using language? What happens to language? Do different modes of description and figurative language do different things to the world? Might we think of such modes—and the literary genres that offer them—as tools that help us approach and understand nature? And in what ways do these modes and the unexamined assumptions that structure them limit what we can see? How much can we really know about nature as it is, in itself, outside of our representational strategies? Further, how have modes of description changed over time, and what can we today learn from studying other ways of understanding how language reflects, touches, and transforms the material world?

This course will grapple with big questions about nature, language, literary form, and human minds—as well as the complex interactions between and among these. We will seek answers by attending closely to both literary and theoretical texts.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: HA-ENGL
Identical With: ENGL367
Prereq: None

SISP366 Bodies, Machines, and Meaning: Cultural Studies of the Sciences

Cultural studies of the sciences shift the focus of interdisciplinary science studies from understanding the sciences as producing and justifying knowledge to understanding them as meaning-making and world-transforming practices. Cultural studies attend to scientific meaning-making at multiple levels, and to the interactions among them: concrete material relations among bodies, technologies, and their settings or situations; verbal, visual, corporeal, mathematical, and other expressive performances; and social, cultural, or political institutions, practices, boundaries, and movements across and within them. Cultural studies of science also emphasizes political engagement with scientific practices and their broader cultural entanglements. This course explores what it means to do cultural studies of science, with a focus on three interrelated themes: alternative conceptions of what it means to make claims and reason about what happens in “nature”; case studies in how scientific meaning and understanding are embodied and prosthethically extended technologically; and some specific conceptual and material relations among scientific understandings of life, bodies, sex, reproduction, and being human.

Offering: Host
Grading: OPT
Credits: 1.00
Gen Ed Area: SBS-PHIL
Identical With: PHIL366
Prereq: None

SISP367 Life of Modern Fact

Facts aren’t born; they are made. The challenge is to understand how people have come to think of facts as existing in the world independent of human intervention. This seminar explores the tools and techniques that people have used to craft facts. We consider examples from the 18th century through the present day, such as training manuals, films, and instruments. We also examine how broader structures such as social networks and the law help produce facts as people share, defend, and use them. Finally, this course encourages skepticism and creativity in the use of primary sources and the formulation of original research, questioning the givens of human knowledge.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: HIST367
Prereq: None

SISP370 Disease and Health in Modern Asia

While this course might seem highly focused and specialized at first glance, it is intended for students of all majors and backgrounds. It has two main goals. The first is to explore the influence of epidemics and diseases more broadly over the course of East Asian history while keeping a global context in mind. The focus is on China and Japan, but Korea will be included when possible. The second is to consider how historically, diseases and epidemics are best understood through multiple disciplinary approaches, including biology, epidemiology, anthropology, sociology, and iconology. Colonialism and empire—both Western and Japanese—are, of course, underlying themes throughout. We will examine several important historiographical and methodological approaches as well as some basic issues in the history of science and some important examples of specific diseases such as cholera, tuberculosis, and plague from different approaches using both secondary and primary sources.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: HIST370, CEAS272
Prereq: None
SISP373 Religion, Science, and Empire: Crucible of a Globalized World

The development of modern science—and of modernity itself—not only coincided with the rise of European imperialism, it was abetted by it. Meanwhile, religion was integral to both the roots of European science and Western encounters with others. This class will explore how the intersections of religion, science, and empire have formed a globalized world with examples of European engagement with the Americas, Middle East, and, particularly, India from the age of Columbus through to the space race. We will examine how the disciplines we know today as biology, anthropology, archaeology, folklore, and the history of religions all crystallized in the crucible of imperial encounter and how non-Westerners have embraced, engaged, and resisted these epistemes.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-RELI
Identical With: RELI373
Prereq: None

SISP374 Food Security: History of an Idea

The Food and Agricultural Organization of the United Nations has held that "food security exists when all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food to meet their dietary needs and food preferences for an active and healthy life." This course is a history of food insecurity as a material condition and a geopolitical concept for explaining uneven access to provisions. Although we begin with the emergence of food security as a concept during World War II, we will spend the majority of the course studying other ways of organizing access to the means of subsistence. Topics discussed will include why human beings share food, the invention of agriculture, transportation infrastructure, international trade, food aid, agricultural research and development, poverty, conflict, and famine.

Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: HIST374
Prereq: None

SISP377 Worlding the World: Creation Myths from Ancient Greece to the Multiverse

This course will focus on two questions that have thwarted and enthralled scientists, philosophers, and theologians for millennia: Where have we come from? and Where are we going? By reading ancient Greek and early Christian sources alongside contemporary astrophysicists, we will witness the reconfigured resurrection of some very old debates about the creation and unmaking of the world. Is the universe eternal, or was it created? Is it finite or infinite? Destructible or indestructible? Linear or cyclical? And is ours the only universe, or are there others?

The semester will be divided into four sections. The first will explore the dominant, or "inflationary," version of the big bang hypothesis in relation to the Christian doctrine of creation. The second will consider the possibility that the whole universe might be a negligible part of a vast "multiverse" in conversation with the early Greek atomists, who posited an extra-cosmic space teeming with other worlds. The third will explore contemporary cyclical cosmologies—that is, theories that posit a rebirth of the cosmos out of its fiery destruction—in relation to early Stoic philosophy and cross-cultural cyclic mythologies. The fourth will explore quantum cosmologies, in which the universe fragments into parallel branches each time a particle "decides" upon a position. We will examine these varied cosmologies of multiplicity, not with a view toward adjudicating among them, but toward pointing out their mythic and ontological genealogies and consequences.

Offering: Crosslisting
Grading: A-F

SISP379 Technology and Culture

Technology is defined as the branch of knowledge that deals with the industrial arts—that is, as the application of scientific knowledge for practical purposes. But this definition belies the complexity and importance of the phenomenon. In this seminar, we will look at technology as more than the handmaiden of science, focusing on the roles we have assigned it in politics, economics, and society writ large. In addition to considering the physical impacts of technology on the environment we live in and on ourselves, we examine technology as an analytical category, a frame of reference we employ in navigating our relationship to the world and to each other.

Offering: Host
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-SISP
Prereq: None

SISP381 Japan's Nuclear Disasters

The atomic bombings of Hiroshima and Nagasaki in 1945 are central to the history of the 20th century. This course examines the scientific, cultural, and political origins of the bombs; their use in the context of aerial bombings and related issues in military history; the decisions to use them; the human cost to those on whom they were dropped; and their place in history, culture, and identity politics to the present. Sources will include works on the history of science; military, political, and cultural history; literary and other artistic interpretations; and a large number of primary source documents, mostly regarding U.S. policy questions. In addition, we will be examining the development of the civilian nuclear industry in Japan with a focus on the nuclear meltdowns in Fukushima and other accidents. This is an extremely demanding course.

This interdisciplinary, experiential, and experimental course combines studio learning (movement studies and interdisciplinary, creative exploration) and seminars (presentations and discussions). No previous dance or movement study is required, and the course is not particularly geared toward dancers or performers. However, your willingness to experiment on and share movement is important. We encourage you to think about movement as a method of accessing human experiences and making distance malleable, a way to explore your own sensations, thoughts, and reactions in learning history.

Offering: Crosslisting
Grading: A-F
Credits: 1.50
Gen Ed Area: SBS-HIST
Identical With: CEAS384, ENVS381, DANC381, HIST381
Prereq: None

SISP382 Anthropocene as Modern Grand Narrative

The Anthropocene refers to the new age in which humankind started to have a significant impact in altering or rupturing the Earth’s system, and the Earth is now moving out of its current geological epoch (the Holocene) and into "a less biologically diverse, less forested, much warmer, and probably wetter and stormier state." (Steffen, Crutzen, and McNeill 2007, Sciences Module, 614). This course begins by examining the debates on the definition and periodization. It then explores precursors to the concept of the Anthropocene, such as Confucian and Daoist writings on the taming of the natural environment for human needs, the catastrophism vs. uniformitarianism debate, and contesting definitions of sustainability. Finally, it looks at how recent works of environmental history engaged with the concept of the Anthropocene and brought our attention to the impact of the transition from organic economy to carbon economy. Is the Anthropocene a new meta-narrative that professes to be the theory that...
explains all human activity? Is the Anthropocene a call to arms for environmental justice? Is the Anthropocene just a declensionist fairy tale—one that leads us down a dead end, throwing up our arms in resignation over the irreversible destruction of the natural environment?
Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: HA-CHUM
Identical With: CHUM307, HIST382
Prereq: None

SISP385 Understanding Life and Mind
This advanced seminar explores the philosophical significance of recent developments in evolutionary, developmental, and genomic biology for philosophical and scientific conceptions of mind and language. After initial treatment of preparatory topics such as naturalism and reductionism, the course takes up four primary themes: organism/environment entanglement; relations between genetics, epigenetics, and genomics; developmentalist challenges to orthodox neo-Darwinist conceptions of evolution; and evolutionary approaches to understanding mind and language, especially those that emphasize niche construction and the co-evolution of language and homo sapiens.
Offering: Host
Grading: OPT
Credits: 1.00
Gen Ed Area: HA-SISP
Identical With: PHIL385
Prereq: None

SISP387 History of the End
How will it end? Scientific hubris, a nuclear event, an asteroid, environmental disaster, overpopulation, resource scarcity, commodity price spikes, riots, social chaos, social control? This seminar investigates how people have imagined apocalypse and post-apocalypse over time, on the premise that fantasies of the end provide a window into the anxieties of the societies that produce them.
Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: ENV387, HIST387
Prereq: None

SISP389 Advanced Research in Social and Historical Process
In this advanced research course, students will become familiar with core theories that consider the temporal dynamics of social psychological phenomena and undertake empirical projects that attend to historical processes, including the history of psychological objects themselves. Students will work collaboratively on all aspects of the research project, including reviews of the literature, assessment of theories, and the design, conduct, and analysis of a study.
Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-PSYC
Identical With: PSYC389
Prereq: PSYC105

SISP393 Materia Medica: Drugs and Medicines in America
This course investigates the identification, preparation, and application of drugs and medicines in the United States, emphasizing the period before the 20th-century institutionalization of corporate research and development. Topics include early modern European prospecting for medicinal plants, the development of an international drug trade, and the formation of national pharmaceutical markets in the United States in the 19th century. Participants will explore the production, circulation, and restriction of medical knowledge through local practice, public and private institutions, trade and commerce, and regulation. In addition to knowledge of the social history of drugs and medicines in the United States, students are expected to develop competencies in historical research using primary and secondary sources. The final weeks of the course are devoted to applying historical knowledge to contemporary debates in global public health, including international pharmaceutical research, drug development, and epidemic disease.
Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: HIST393, AMST393
Prereq: None

SISP399 History and Geography
Maps are part of a broader family of value-laden images. This is a research seminar about the global history of cartography from 1490s to the recent past. We will study maps from the early modern and modern world and examine how maps were used as instruments of political power, shaped the imagination of peoples around the world, and inspired new ways to imagine our self-identity.
Offering: Crosslisting
Grading: A-F
Credits: 1.00
Gen Ed Area: SBS-HIST
Identical With: HIST399, CEAS214, ENVS399
Prereq: None

SISP401 Individual Tutorial, Undergraduate
Topic to be arranged in consultation with the tutor.
Offering: Host
Grading: OPT

SISP402 Individual Tutorial, Undergraduate
Topic to be arranged in consultation with the tutor.
Offering: Host
Grading: OPT

SISP403 Department/Program Project or Essay
Project to be arranged in consultation with the tutor.
Offering: Host
Grading: OPT

SISP404 Department/Program Project or Essay
Project to be arranged in consultation with the tutor.
Offering: Host
Grading: OPT

SISP407 Senior Tutorial (downgraded thesis)
Downgraded Senior Thesis Tutorial - Project to be arranged in consultation with the tutor. Only enrolled in through the Honors Coordinator.
Offering: Host
Grading: A-F

SISP408 Senior Tutorial (downgraded thesis)
Downgraded Senior Thesis Tutorial - Project to be arranged in consultation with the tutor. Only enrolled in through the Honors Coordinator.
Offering: Host
Grading: A-F

SISP409 Senior Thesis Tutorial
Topic to be arranged in consultation with the tutor.
Offering: Host
Grading: OPT

SISP410 Senior Thesis Tutorial
Topic to be arranged in consultation with the tutor.
Offering: Host
Grading: OPT

**SISP411 Group Tutorial, Undergraduate**
Topic to be arranged in consultation with the tutor.
Offering: Host
Grading: OPT

**SISP412 Group Tutorial, Undergraduate**
Topic to be arranged in consultation with the tutor.
Offering: Host
Grading: OPT

**SISP419 Student Forum**
Student-run group tutorial, sponsored by a faculty member and approved by the chair of a department or program.
Offering: Host
Grading: Cr/U

**SISP420 Student Forum**
Student-run group tutorial, sponsored by a faculty member and approved by the chair of a department or program.
Offering: Host
Grading: Cr/U

**SISP420A Student Forum**
Student-run group tutorial, sponsored by a faculty member and approved by the chair of a department or program.
Offering: Host
Grading: Cr/U

**SISP465 Education in the Field, Undergraduate**
Students must consult with the department and class dean in advance of undertaking education in the field for approval of the nature of the responsibilities and method of evaluation.
Offering: Host
Grading: OPT

**SISP466 Education in the Field, Undergraduate**
Students must consult with the department and class dean in advance of undertaking education in the field for approval of the nature of the responsibilities and method of evaluation.
Offering: Host
Grading: OPT

**SISP469 Education in the Field, Undergraduate**
Students must consult with the department and class dean in advance of undertaking education in the field for approval of the nature of the responsibilities and method of evaluation.
Offering: Host
Grading: Cr/U
Credits: 1.00
Gen Ed Area: None
Prereq: None

**SISP491 Teaching Apprentice Tutorial**
The teaching apprentice program offers undergraduate students the opportunity to assist in teaching a faculty member's course for academic credit.
Offering: Host
Grading: OPT

**SISP492 Teaching Apprentice Tutorial**
The teaching apprentice program offers undergraduate students the opportunity to assist in teaching a faculty member's course for academic credit.
Offering: Host
Grading: OPT