The University offers a number of courses in the history and philosophy of science, although it does not, at this time, offer a major or concentration to undergraduates in Columbia College or General Studies. The course listings bring together a variety of courses from different disciplines, which should be of interest to anyone wishing to pursue work in the history and philosophy of science. The list is not intended to be all inclusive; students interested in the history and philosophy of science should speak to members of the committee.

Interdepartmental Committee on History and Philosophy of Science

David Albert
Philosophy
706 Philosophy; 212-854-3519

Marwa Elshakry
History
512 Fayerweather; 212-851-5914

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History
424 Hamilton; 212-854-3248

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History
201E Pulitzer; 212-854-0547

Matthew Jones
History
514 Fayerweather; 212-854-2421

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422B Lehman; 212-854-4350

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David Rosner
History/Sociomedical Sciences
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David Rothman
History/Sociomedical Sciences
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George Saliba (emeritus)
Middle Eastern, South Asian, and African Studies
312 Knox; 212-854-4166

Pamela Smith
History
605 Fayerweather; 212-854-7662

Fall 2023

HIST UN2112 The Scientific Revolution in Western Europe: 1500-1750. 4 points.
Introduction to the cultural, social, and intellectual history of the upheavals of astronomy, anatomy, mathematics, alchemy from the Renaissance to the Enlightenment. Field(s): EME

HIST UN2523 HEALTH INEQUALITY: MODERN US. 4.00 points.
Through assigned readings and a group research project, students will gain familiarity with a range of historical and social science problems at the intersection of ethnic/racial/sexual formations, technological networks, and health politics since the turn of the twentieth century. Topics to be examined will include, but will not be limited to, black women’s health organization and care; HIV/AIDS politics, policy, and community response; benign neglect; urban renewal and gentrification; medical abuses and the legacy of Tuskegee; tuberculosis control; and environmental justice. There are no required qualifications for enrollment, although students will find the material more accessible if they have had previous coursework experience in United States history, pre-health professional (pre-med, pre-nursing, or pre-public health), African-American Studies, Women and Gender Studies, Ethnic Studies, or American Studies

Fall 2023: HIST UN2523

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<tr>
<th>Course Number</th>
<th>Section/Call Number</th>
<th>Times/Location</th>
<th>Instructor</th>
<th>Points</th>
<th>Enrollment</th>
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<tbody>
<tr>
<td>HIST 2523</td>
<td>001/10416</td>
<td>M W 10:10am - 11:25am Room TBA</td>
<td>Samuel Roberts</td>
<td>4.00</td>
<td>83/105</td>
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</table>
HIST GU4588 RACE, DRUGS, AND INEQUALITY. 4.00 points.
Priority given to majors and concentrators, seniors, and juniors.

Prerequisites: the instructor’s permission.
Prerequisites: the instructors permission. Through a series of secondary- and primary-source readings and research writing assignments, students in this seminar course will explore one of the most politically controversial aspects in the history of public health in the United States as it has affected peoples of color: intoxicating substances. Course readings are primarily historical, but sociologists, anthropologists, and political scientists are also represented on the syllabus. The courses temporal focus - the twentieth century - allows us to explore the historical political and social configurations of opium, alcohol, heroin, cocaine, medical maintenance (methadone), the War on Drugs, the carceral state and hyperpolicing, harm reduction and needle/syringe exchange. This semesters principal focus will be on the origins and evolution of the set of theories, philosophies, and practices which constitute harm reduction. The International Harm Reduction Association/Harm Reduction International offers a basic, though not entirely comprehensive, definition of harm reduction in its statement, What is Harm Reduction? (http://www.ihra.net/what-is-harm-reduction): Harm reduction refers to policies, programmes and practices that aim to reduce the harms associated with the use of psychoactive drugs in people unable or unwilling to stop. The defining features are the focus on the prevention of harm, rather than on the prevention of drug use itself, and the focus on people who continue to use drugs.[1] Harm reduction in many U.S. communities of color, however, has come to connote a much wider range of activity and challenges to the status quo. In this course we will explore the development of harm reduction in the United States and trace its evolution in the political and economic context race, urban neoliberalism, and no-tolerance drug war. The course will feature site visits to harm reduction organizations in New York City, guest lectures, and research/oral history analysis. This course has been approved for inclusion in both the African-American Studies and History undergraduate curricula (majors and concentrators). HIST W4588 will be open to both undergraduate and masters students. To apply, please complete the Google form at https://docs.google.com/forms/d/1xaPFqO2zd1NNhjQen9h41iel2hXAdhV59D5wH8AQ/viewform?usp=send_form. Questions may be directed to skroberts@columbia.edu

Spring 2023
HSAM UN2901 DATA: PAST, PRESENT AND FUTURE. 3.00 points.
Lect: 1.5. Lab: 1.5.

Data-empowered algorithms are reshaping our professional, personal, and political realities, for good--and for bad. Data: Past, Present, and Future moves from the birth of statistics in the 18th century to the surveillance capitalism of the present day, covering racist eugenics, World War II cryptography, and creepy personalized advertising along the way. Rather than looking at ethics and history as separate from the science and engineering, the course integrates the teaching of algorithms and data manipulation with the political whirlwinds and ethical controversies from which those techniques emerged. We pair the introduction of technical developments with the shifting political and economic powers that encouraged and benefited from new capabilities. We couple primary and secondary readings on the history and ethics of data with computational work done largely with user-friendly Jupyter notebooks in Python.

Spring 2022: HSAM UN2901
Course Number Section/Call Number Times/Location Instructor Points Enrollment
HSAM 2901 001/11863 T Th 10:10am - 11:25am 614 Schermerhorn Hall Chris Wiggins, Matthew Jones 3.00 55/70

Spring 2023: HIST GU4588
Course Number Section/Call Number Times/Location Instructor Points Enrollment
HIST 4588 001/11203 T 2:10pm - 4:00pm 302 Fayerweather Samuel Roberts 4.00 10/15
In the decades since the publication of Silent Spring and the rise of the environmental movement, public awareness of the impact of industrial products on human health has grown enormously. There is growing concern over BPA, lead, PCBs, asbestos, and synthetic materials that make up the world around us. This course will focus on environmental history, industrial and labor history as well as on how twentieth century consumer culture shapes popular and professional understanding of disease. Throughout the term the class will trace the historical transformation of the origins of disease through primary sources such as documents gathered in lawsuits, and medical and public health literature. Students will be asked to evaluate historical debates about the causes of modern epidemics of cancer, heart disease, lead poisoning, asbestos-related illnesses and other chronic conditions. They will also consider where responsibility for these new concerns lies, particularly as they have emerged in law suits. Together, we will explore the rise of modern environmental movement in the last 75 years.

Prerequisites: one semester of Contemporary Civilization or Literature Humanities, or an equivalent course, and the instructor's permission. A team-taught multicultural, interdisciplinary course examining traditions of leadership and citizenship as they appear in the key texts of early Indian, Islamic, Far Eastern, and Western civilizations. One goal is to identify and examine common human values and issues evident in these texts while also recognizing key cultural differences.

Prerequisites: the instructor's permission.

Prerequisites: the instructors permission. Through a series of secondary-and primary-source readings and research writing assignments, students in this seminar course will explore one of the most politically controversial aspects in the history of public health in the United States as it has affected peoples of color: intoxicating substances. Course readings are primarily historical, but sociologists, anthropologists, and political scientists are also represented on the syllabus. The courses temporal focus - the twentieth century - allows us to explore the historical political and social configurations of opium, alcohol, heroin, cocaine, medical maintenance (methadone), the War on Drugs, the carceral state and hyperpolicing, harm reduction and needle/syringe exchange. This semesters principal focus will be on the origins and evolution of the set of theories, philosophies, and practices which constitute harm reduction. The International Harm Reduction Association/Harm Reduction International offers a basic, though not entirely comprehensive, definition of harm reduction in its statement, What is Harm Reduction? (http://www.ihra.net/what-is-harm-reduction): Harm reduction refers to policies, programmes and practices that aim to reduce the harms associated with the use of psychoactive drugs in people unable or unwilling to stop. The defining features are the focus on the prevention of harm, rather than on the prevention of drug use itself, and the focus on people who continue to use drugs.[1] Harm reduction in many U.S. communities of color, however, has come to connotate a much wider range of activity and challenges to the status quo. In this course we will explore the development of harm reduction in the United States and trace its evolution in the political and economic context race, urban neoliberalism, and no-tolerance drug war. The course will feature site visits to harm reduction organizations in New York City, guest lectures, and research/oral history analysis. This course has been approved for inclusion in both the African-American Studies and History undergraduate curricula (majors and concentrators). HIST W4588 will be open to both undergraduate and masters students. To apply, please complete the Google form at https://docs.google.com/forms/d/1xaPhO2zd1HNnjQen9h41ie2hXAdhV59D5wh8AQ/viewform?usp=send_form. Questions may be directed to skroberts@columbia.edu.
HIST GU4031 Transforming Texts: Textual Analysis, Literary Modeling, and Visualization. 4 points.

Designed for graduate and advanced undergraduate students in the social sciences, humanities, and computer science, this hybrid course is situated at the crossroads of historical exploration and computer sciences. Students will be exposed to digital literacy tools and computational skills through the lens of the Making and Knowing Project. The edition will draw on collaboration with and research done by the Making and Knowing Project [http://www.makingandknowing.org/](http://www.makingandknowing.org/) on an anonymous 16th-century French compilation of artistic and technical recipes (BnF Ms. Fr. 640). Students will work from the encoded English translation of the manuscript, prepared by the Spring 2017 course "HIST GR8975 What is a Book in the 21st Century? Working with Historical Texts in a Digital Environment." This course will also utilize the concepts and prototypes developed by computer science students in the Spring 2018 "COMS W4172: 3D User Interfaces and Augmented Reality (AR). The skills students will learn over the course of the semester are widely applicable to other types of Digital Humanities projects, and indeed, in many fields outside of traditional academic study.

For the final project, students will collaborate to investigate linguistic features of Ms. Fr. 640 using natural language processing and text mining techniques. These projects will shed light on topics of interest within the manuscript and uncover connections within the textual data. By using the tools prototypes in a Spring 2018 COMS W4172 course, and working alongside computer science students, the groups will learn to adapt and recode data sets, and to view them into a variety of visualizations.

**Of Related Interest**

**Biological Sciences**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CSER W3222</td>
<td>Nature and Power: Environmental History of the US</td>
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**Center for the Study of Ethnicity and Race**

**Colloquia, Interdepartmental Seminars, and Professional School Offerings**

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<tr>
<th>Course</th>
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<td>INSM C3940</td>
<td>Science Across Cultures</td>
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**History**

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<td>NATURE &amp; POWER: ENV HIST NORTH AMERICA</td>
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<tr>
<td>HSPB UN2950</td>
<td>Social History of U.S. Public Health</td>
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<tr>
<td>HIST UN3437</td>
<td>CORP BEHAVIOR &amp; PUBLIC HEALTH</td>
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<tr>
<td>HIST GU4588</td>
<td>RACE, DRUGS, AND INEQUALITY</td>
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**History (Barnard)**

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<td>CLIMATE &amp; HISTORY: INTERSECTING SCIENCE, ENVIRONMENT &amp; SOCIETY</td>
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<tr>
<td>HIST BC2402</td>
<td>Science and Society: From Galileo to Climate Change</td>
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**Philosophy**

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<td>PHIL UN2201</td>
<td>HISTORY OF PHILOSOPHY II</td>
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<td>PHIL UN3251</td>
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**Women's Studies (Barnard)**

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<tr>
<td>WMST BC3509</td>
<td>Gender, Knowledge and Science in Modern European History</td>
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