**SCIENCE AND PUBLIC POLICY**

SCPP Co-Directors: Professor Tim Halpin-Healy (Physics & Astronomy) and Brian Morton (Biological Sciences)

1203 Altschul Hall  
212.854.2437  
mflores@barnard.edu  
Department Administrator: Melissa Flores

Students who would like to sign up for the SCPP mailing listserv, should fill out this form (click here) ([https://forms.gle/tNyebGbQBxKcZWt6/](https://forms.gle/tNyebGbQBxKcZWt6/)).

**Mission**

As part of the College’s mission to prepare scientists, policy-makers, and an educated citizenry for the moral challenges presented by future scientific advances, Barnard offers a unique collection of courses focusing on issues at the frequently volatile intersection point where science, public policy, and societal concerns collide. These courses are interdisciplinary in nature, team-taught by Barnard faculty from a variety of departments, and held in seminar format with limited enrollments, typically juniors and seniors. Recent topics concern ecological vs. financial imperatives in developing Third-World biodiversity, manipulation of the human genome, privacy issues and ethical dilemmas arising from genetic testing, misguided eugenics programs and race science, the Manhattan Project, as well as the Cold War build-up of nuclear arsenals in the United States and former Soviet Union.

**Frequently Asked Questions**

Answers to commonly asked questions about the SCPP minor can be found in this document (click here to download) ([http://bulletin.columbia.edu/barnard-college/courses-instruction/science-public-policy/SCPP_Questions_and_Answers.pdf](http://bulletin.columbia.edu/barnard-college/courses-instruction/science-public-policy/SCPP_Questions_and_Answers.pdf)).

**Professors:** Tim Halpin-Healy (Physics & Astronomy) and Brian Morton (Biological Sciences)

**Requirements for the Science, Policy, & Ethics Minor**

The minor in Science, Policy, & Ethics requires five courses total: two core SCPP seminars, one introductory course in philosophy, and two additional courses.

1. **Core SCPP Seminars**
   - SCPP BC3334: Science, State Power & Ethics 4 points
   - SCPP BC3336: GENETICS AND SOCIETY 4 points

   If course offerings restrict availability, then, with the approval of the SCPP Director, one of the SCPP core seminars may be replaced by a course from the list of Additional Courses below.

2. **Introductory Philosophy**
   - PHIL BC1001: Introduction to Philosophy 3 points  
   - or PHIL UN1010: METHODS/PROB OF PHILOS THOUGHT

3. **Additional Courses**
   - Two courses from the following:
     - BIOL UN3995 (Section 1): Topics in Biology: Crossroads in Bioethics 1-2 points
     - COMS BC3420: Privacy in a Networked World 4 points
     - EEEB GU4005: Conservation Policy 3 points
     - EEEB GU4321: Human Nature: DNA, Race & Identity 4 points
     - EEEB GU4700: Race: The Tangled History of a Biological Concept 4 points
     - EESC BC3040: Environmental Law 3 points
     - or SDEV UN2000: Introduction to Environmental Law
     - EESC UN2330: SCIENCE FOR SUSTAINABLE DEVPT 3 points
     - HIST BC3910: Global Politics of Reproduction: Culture, Politics, and History 4 points
     - HRTS UN3001: Introduction to Human Rights 3 points
     - HRTS BC3850: Human Rights and Public Health 4 points
     - HSPB UN2950: Social History of American Public Health 4 points
     - PHIL V2593: Science and Religion 3 points
     - PHIL UN2702: Contemporary Moral Problems 3 points
     - PHIL UN3654: Philosophy of Psychology 3 points
     - PHIL UN3701: ETHICS 4 points
     - PHIL V3720: Ethics and Medicine 3 points
     - PHIL UN3800: PHILOSOPHY, JUSTICE AND SOCIAL ACTIVISM 4 points
     - PSYC BC3387: Topics in Neuroethics 4 points
     - PUBH UN3100: Fundamentals of Global Health 3 points
     - PUBH UN3200: Introduction to Public Health 3 points
     - PUBH UN3400: Data Science and Health Equity in New York City 3 points
     - SDEV UN2050: Environmental Policy and Governance 3 points
     - SDEV UN3355: Climate Change and Law 3 points
     - SOCI UN3246: Medical Sociology 3 points
     - SOCI BC3750: How Race Gets Under Our Skin: The Sociology of Race, Health, and Biomedicine 4 points
     - WMST BC3131: Women and Science 4 points

**SCPP BC3334 Science, State Power & Ethics. 4 points.**

Seminar

A comparative study of science in the service of the State in the U.S., the former Soviet Union, Fascist Italy, and Nazi Germany during pivotal periods through the first half of the 20th century. Topics to be covered include the political and moral consequences of policies based upon advances in the natural sciences making possible the development of TNT, nerve gas, uranium fission and hydrogen fusion atomic bombs. Considers the tensions involved in balancing scientific imperatives, patriotic commitment to the nation-state, and universal moral principles and tensions faced by Robert Oppenheimer, Andrei Sakharov, Neils Bohr and Werner Heisenberg. Selected readings include: Michael Frayn’s play *Copenhagen*, Hitler’s *Uranium Club* by Jeremy Bernstein, Brecht’s *Galileo*, John McPhee’s *The Curve of Binding Energy*, Richard Rhodes’ *The Making of the Atomic Bomb.*
SCPP BC3336 GENETICS AND SOCIETY. 4.00 points.  
An exploration of the growing knowledge and technological advances in genetics, with a focus on human genetics, using scientific, popular and artistic sources. The course will cover areas such as genetic testing, personalized medicine, ancestry analysis, genome editing with CRISPR-Cas9, stem cells and cloning. It will involve an examination of scientific sources, portrayals in popular culture and discussions of some of the ethical implications and social/political impacts.

SCPP BC3340 Exhibitions: Engaging Public Understanding. 1 point.  
Not offered during 2020-21 academic year.

Corequisites: Enrollment limited to 18 students.  
Museum exhibitions educate the public, inform discourse, and shape opinion. Students work with curators and exhibition designers on conceptualization and research, design and preparation, writing interpretative material, and developing media and ancillary programming. Students engage in the communication of learning goals through both the exhibition’s content and its physical manifestation.

Cross-Listed Courses
PHIL BC1001 Introduction to Philosophy. 3 points.  
Survey of some of the central problems, key figures, and great works in both traditional and contemporary philosophy. Topics and texts will vary with instructor and semester.

PHIL UN1010 METHODS/PROB OF PHILOS THOUGHT. 3.00 points.  
Critical introduction to philosophical problems, ideas and methods.

EEEB GU4700 Race: The Tangled History of a Biological Concept. 4 points.  
The course focuses on both the technical challenges of handling sensitive subjects. As a result, concern about the use, ownership, control, privacy, and accuracy of these data has become a top priority. This seminar course focuses on both the technical challenges of handling sensitive data, the privacy implications of various technologies, and the policy and legal issues facing data subjects, data owners, and data users.

EEEB GU4321 Human Nature: DNA, Race & Identity. 4 points.  
The course focuses on human identity, beginning with the individual and progressing to communal and global viewpoints using a framework of perspectives from biology, genetics, medicine, psychiatry, religion and the law.

BIOL UN3995 (Section 1) Topics in Biology: Crossroads in Bioethics. 1-2 points.  
Prerequisites: at least one introductory course in biology or chemistry. This two credit multidisciplinary and interactive course will focus on contemporary issues in bioethics. Each topic will cover both the underlying science of new biotechnologies and the subsequent bioethical issues that emerge from these technologies. Classroom time will be devoted to student discussions, case presentations, and role playing. Topics include human trafficking, stem cell research, human reproductive cloning, neuroethics, genetic screening, human-animal chimeras, synthetic biology, bioterrorism, and neuroimaging.

COMS BC420 Privacy in a Networked World. 4 points.  
The ubiquity of computers and networks in business, government, recreation, and almost all aspects of daily life has led to a proliferation of online sensitive data: data that, if used improperly, can harm the data subjects. As a result, concern about the use, ownership, control, privacy, and accuracy of these data has become a top priority. This seminar course focuses on both the technical challenges of handling sensitive data, the privacy implications of various technologies, and the policy and legal issues facing data subjects, data owners, and data users.

SCPP BC3336

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Spring 2021: SCPP BC3336

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SCPP BC3340 Exhibitions: Engaging Public Understanding. 1 point.  
Not offered during 2020-21 academic year.

Corequisites: Enrollment limited to 18 students.

Museum exhibitions educate the public, inform discourse, and shape opinion. Students work with curators and exhibition designers on conceptualization and research, design and preparation, writing interpretative material, and developing media and ancillary programming. Students engage in the communication of learning goals through both the exhibition’s content and its physical manifestation.

Cross-Listed Courses
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Survey of some of the central problems, key figures, and great works in both traditional and contemporary philosophy. Topics and texts will vary with instructor and semester.

PHIL UN1010 METHODS/PROB OF PHILOS THOUGHT. 3.00 points.
Critical introduction to philosophical problems, ideas and methods.

EEEB GU4700 Race: The Tangled History of a Biological Concept. 4 points.

EEEB GU4321 Human Nature: DNA, Race & Identity. 4 points.
The course focuses on human identity, beginning with the individual and progressing to communal and global viewpoints using a framework of perspectives from biology, genetics, medicine, psychiatry, religion and the law.

From Aristotle to the 2020 US census, this course examines the history of race as a biological concept. It explores the complex relationship between the scientific study of biological differences-real, imagined, or invented and the historical and cultural factors involved in the development and expression of “racial ideas.” Scientific background not required. [Additional hour for film screenings weekly in second half of the semester--attendance at films is mandatory.] Please note that this course DOES NOT fulfill the SC requirement at the College or GS.

Spring 2021: SCPP BC3336

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**EESC BC3040 Environmental Law. 3 points.**

Process-oriented introduction to the law and its use in environmental policy and decision-making. Origins and structure of the U.S. legal system. Emphasis on litigation process and specific cases that elucidate the common law and toxic torts, environmental administrative law, and environmental regulation through application and testing of statutory law in the courts. Emphasis also on the development of legal literacy, research skills, and writing.

**SDEV UN2000 Introduction to Environmental Law. 3 Points.**

The course provides an overview of environmental law for students without a legal background. It examines U.S. statutes and regulations regarding air, water, hazardous and toxic materials, land use, climate change, endangered species, and the like, as well as international environmental issues. After completing the course students should be equipped to understand how the environmental laws operate, the role of the courts, international treaties and government agencies in implementing environmental protection, and techniques used in addressing these issues.

**EESC UN2330 SCIENCE FOR SUSTAINABLE DEVPT. 3 points.**

CC/GS: Partial Fulfillment of Science Requirement

The course provides students with the natural science basis to appreciate co-dependencies of natural and human systems, which are central to understanding sustainable development. After completing the course, students should be able to incorporate scientific approaches into their research or policy decisions and be able to use scientific methods of data analysis. The semester will highlight the climate system and solutions from both physical and ecological perspectives; water resources; food production and the cycling of nutrients; and the role of biodiversity in sustainable development. The course emphasizes key scientific concepts such as uncertainty, experimental versus observational approaches, prediction and predictability, the use of models and other essential methodological aspects.

**HRTS UN3001 Introduction to Human Rights. 3 points.**

Evolution of the theory and content of human rights; the ideology and impact of human rights movements; national and international human rights law and institutions; their application with attention to universality within states, including the U.S., and internationally.

**HRTS BC3850 Human Rights and Public Health. 4 points.**

Prerequisites: Enrollment in the course is open to 18 undergraduates who have completed at least one core course in human rights and/or international law. This seminar introduces students to the field of health and human rights. It examines how to advocate for and implement public health strategies using a human rights framework. It takes note of current international and domestic debates about the utility of a “human rights-based approach” to health, discusses methods and ethics of health-related human rights research, and examines case studies of human rights investigations to explore the role of human rights analysis in promoting public health.

**HSPB UN2950 Social History of American Public Health. 4 points.**

The purpose of this course is to provide students with an historical understanding of the role public health has played in American history. The underlying assumptions are that disease, and the ways we define disease, are simultaneously reflections of social and cultural values, as well as important factors in shaping those values. Also, it is maintained that the environments that we build determine the ways we live and die. The dread infectious and acute diseases in the nineteenth century, the chronic, degenerative conditions of the twentieth and the new, vaguely understood conditions rooted in a changing chemical and human-made environment are emblematic of the societies we created. Among the questions that will be addressed are: How does the health status of Americans reflect and shape our history? How do ideas about health reflect broader attitudes and values in American history and culture? How does the American experience with pain, disability, and disease affect our actions and lives? What are the responsibilities of the state and of the individual in preserving health? How have American institutions—from hospitals to unions to insurance companies—been shaped by changing longevity, experience with disability and death?
PHIL V2593 Science and Religion. 3 points.
Open to all undergraduates. Not offered during 2020-21 academic year.

The course investigates what many people have viewed as a "quarrel" between science and religion. It explores what science is, and what religion is, and asks what authority can offer for the various claims they make. As the natural sciences provide increased knowledge of the cosmos, is there still a place for religion? The course has no prerequisites.

PHIL UN2702 Contemporary Moral Problems. 3 points.
Questions about how people should act have historically been central to philosophy. This course introduces students to philosophy through an examination of some important moral problems that arise in the twenty-first century. The aim is not only to offer ideas for thinking through the issues covered, but also to provide tools for general moral reflection. Topics covered will include: the legitimacy of asking migrants to abandon their traditional practices, responsibilities to distant people and to future generations, abortion and genetic testing of the unborn, the proper treatment of animals, and the permissibility of war and terrorism.

PHIL UN3654 Philosophy of Psychology. 3 points.
Considers psychology from the perspective of philosophy of science and the plausibility of various philosophical positions in light of the best current theories of psychology. Examines the assumptions and explanatory strategies of past and present "schools of psychology" and the implications of recent work in psychology for such perennial philosophical problems as moral responsibility and personal identity.

PHIL UN3701 ETHICS. 4.00 points.
Prerequisites: one course in philosophy.
Corequisites: PHIL V3711 Required Discussion Section (0 points).
Prerequisites: one course in philosophy. Corequisites: PHIL V3711 Required Discussion Section (0 points). This course is mainly an introduction to three influential approaches to normative ethics: utilitarianism, deontological views, and virtue ethics. We also consider the ethics of care, and selected topics in meta-ethics.

Spring 2021: PHIL UN3701

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<td>Michele Moody-Adams</td>
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PHIL V3720 Ethics and Medicine. 3 points.
Not offered during 2020-21 academic year.

Prerequisites: Limited enrollment by permission of the instructor. First-day attendance required.
Phenomenological examination of moral issues in medical theory and practice. Analysis of the ethics of the doctor-patient relationship, e.g., informed consent, truth-telling, paternalism; topics in bioethics, e.g., abortion, euthanasia, experimentation on humans; justice and access to health care; human genetics.

PHIL UN3800 PHILOSOPHY, JUSTICE AND SOCIAL ACTIVISM. 4 points.
In his Theses on Feuerbach, Karl Marx writes, "Philosophers have only interpreted the world in various ways; the point is to change it. The questions to ask in response to Marx's exhortation include: how do we recognize the need for change and appropriately effect it? What are the relations between our goals and the means to them? How can we better understand our goals to make the means more suitable? When we organize to produce results, what are we doing? Do we know exactly who and what we want to change? What are the "ethics of process"? What exactly do we do when we organize? A tentative definition: to organize is to bring together individuals who have common interests in a way that will enhance their power. What kind of power is this? What other forms of power are there? What is the best form of coordinating among individuals? If we better understand the dynamics of organizing, should we reconceive our goals accordingly? How do we better tap into shared values and concerns? What temptations and distractions get in the way of our goals? What problems prevent us from achieving them? Do we have goals that can be achieved? If not, how can we revise them?

PSYC BC3387 Topics in Neuroethics. 4 points.
BC: Fulfillment of General Education Requirement: Reason and Value (REA).

Prerequisites: BC1001 and one of the following: Neurobiology, Behavioral Neuroscience, Fundamentals of Neuropsychology, or permission of the instructor. Enrollment limited to 20 students.
Recent advancements in neuroscience raise profound ethical questions. Neuroethics integrates neuroscience, philosophy, and ethics in an attempt to address these issues. Reviews current debated topics relevant to the brain, cognition, and behavior. Bioethical and philosophical principles will be applied allowing students to develop skill in ethical analysis.
PUBH UN3100 Fundamentals of Global Health. 3 points.
Many of the greatest challenges in public health are global. This course
uses a multidisciplinary approach to discuss the major underlying
determinants of poor health and the relationship between health and
political, social, and economic development. Drawing upon the sciences,
social sciences, and humanities, students will be introduced to the
evolution of modern approaches to the setting of global health priorities,
the functions and roles of health systems, an overview of current global
health practices, and the major institutional players in global health. The
first unit of the class will focus on establishing the foundations for a
public health approach to understanding the challenges of global health.
This will involve exploration of the factors shaping the global distribution
disease and their connection with issues of social, economic, and
diplomatic system, as reflected in the Millennium Development Goals.
The second unit will explore in further detail a number of major health
priorities. A significant goal of the class will be to identify common
sources of vulnerability and challenge across health risks, and the
consequent need for a systemic approach to their being addressed.
The third and final unit builds upon this analysis to demonstrate the
multi-disciplinary, multi-level approach required to effectively address
global health priorities, and the political and organizational cooperation
required to achieve this. The class concludes with an analysis of the
major challenges and threats to global coordination regarding such
threats as pandemic influenza and emerging health threats related to
climate change. Offered in the spring.

Spring 2021: PUBH UN3100

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<td>Rachel Moreisky</td>
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PUBH UN3200 Introduction to Public Health. 3 points.
An introduction to and overview of public health. Through a series
of sessions with leading public health experts, this course views the
multifaceted nature of public health through a prismatic lens addressing
key concepts, approaches, and issues of historical and contemporary
import: What is public health and how has public health evolved
over time? What are the core methods of public health? What are the
approaches to understanding and addressing both infectious and
chronic, non-communicable diseases? What role do micro- and macro-
level determinants (i.e., biology and social context) play in public health?
What are the global trends in population health? How does the individual
life course bear on population health? How do systems, policy, and
population health mutually shape each other? How are public health
programs designed and evaluated? What are the limits of public health?

Fall 2020: PUBH UN3200

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SDEV UN3050 Environmental Policy and Governance. 3 Points.
Sustainability is a powerful framework for thinking about business,
economics, politics and environmental impacts. An overview course,
Environmental Policy & Governance will focus specifically on the
policy elements of sustainability. With an emphasis on the American
political system, the course will begin by exploring the way the American
bureaucracy addresses environmental challenges. We will then use the
foundations established through our understanding of the US system
to study sustainable governance at the international level. With both
US and international perspectives in place, we will then address a range
of specific sustainability issues including land use, climate change,
food and agriculture, air quality, water quality, and energy. Over the
course of the semester, we will study current events through the lens of
sustainability policy to help illustrate course concepts and theories.

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<td>Lisa Dale</td>
<td>M W 11:40am - 12:55pm Online Only</td>
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SDEV UN3355 Climate Change and Law. 3 Points.
Enrollment limited to 15.
The purpose of this course is to provide students with a broad
introduction to the field of climate law in the United States and at the
international level. The course begins with an overview of the causes and
effects of global climate change and the methods available to control and
adapt to it. We then examine the negotiation, implementation and current
status of the United Nations Framework Convention on Climate Change,
the Kyoto Protocol, and the Copenhagen Accord. The focus then turns to
the past and proposed actions of the U.S. Congress, the executive branch and
the courts, as well as regional, state and municipal efforts. The
Clean Air Act, the National Environmental Policy Act and the Endangered
Species Act will receive special attention. We evaluate the various legal
tools that are available to address climate change, including cap-and
trade schemes; carbon taxation; command-and-control regulation;
litigation; securities disclosures; and voluntary action. The roles of energy
efficiency, renewable energy sources, carbon capture and sequestration,
and forestry and agriculture each receive close attention. Implications
for international human rights, international trade, environmental justice,
and international and intergenerational equity are discussed. The course
concludes with examination of the special challenges posed by China;
proposals for adaptation and geoengineering; and business opportunities
and the role of lawyers. Offered in the Spring.

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<td>Spring 2021</td>
<td>002</td>
<td>18031</td>
<td>Michael Gerrard</td>
<td>M W 8:40am - 10:10am Online Only</td>
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SOCI UN3246 Medical Sociology. 3 points.
Prerequisites: None
Examines the ways sociologists have studied the field of medicine and experiences of health and illness. We cannot understand topics of health and illness by only looking at biological phenomena; we must consider a variety of social, political, economic, and cultural forces. Uses sociological perspectives and methods to understand topics such as: unequal patterns in health and illness; how people make sense of and manage illness; the ways doctors and patients interact with each other; changes in the medical profession, health policies and institutions; social movements around health; and how some behaviors but not others become understood as medical problems. Course is geared towards pre-med students as well as those with general interests in medicine, health and society.

Spring 2021: SOCI UN3246
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
SOCI 3246  001/00048  M T W Th 4:10pm - 5:25pm  Amy Zhou  3  45/45

SOCI BC3750 How Race Gets Under Our Skin: The Sociology of Race, Health, and Biomedicine. 4 points.
One of the glaring forms of inequalities that persists today is the race-based gap in access to health care, quality of care, and health outcomes. This course examines how institutionalized racism and the structure of health care contributes to the neglect and sometimes abuse of racial and ethnic minorities. Quite literally, how does race affect one's life chances? This course covers a wide range of topics related to race and health, including: racial inequalities in health outcomes, biases in medical institutions, immigration status and health, racial profiling in medicine, and race in the genomic era.

Spring 2021: SOCI BC3750
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
SOCI 3750  001/00049  T Th 10:10am - 12:00pm  Amy Zhou  4  20/20

WMST BC3131 Women and Science. 4 points.
Prerequisites: Enrollment limited to 18 students.
History and politics of women's involvement with science. Women's contributions to scientific discovery in various fields, accounts by women scientists, engineers, and physicians, issues of science education. Feminist critiques of biological research and of the institution of science.