

## SCIENCE IN HUMAN CULTURE

### Spring Quarter 2012 Undergraduate Course Offerings – Long Version

Available from <http://www.shc.northwestern.edu/undergraduate/courses.html>.

The following is a list and description of courses that may be counted toward the SHC adjunct major or minor. You may also petition the SHC Director to count a course not listed here.

#### CORE COURSES:

HISTORY 275-1 – 01 (37630)

**History of Western Science and Medicine: Origins in Early Moderns Europe**

MoWe 2:00PM - 3:20PM	Kresge Centennial Hall 4-435	Tania Munz
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See below under “History” for the complete description.

#### SHC VISITING FACULTY:

*Don't miss the opportunity to take classes with SHC's own Visiting Faculty member, Tom Waidzunus:*

SOCIOLOG 376-0 – 20 (31422)

**Topics in Sociological Analysis: Global Health and Transnational Social Movements**

TuTh 9:30AM - 10:50AM	Annenberg Hall G15	Thomas Waidzunus
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See below under “Sociology” for the complete description.

**DETAILED LISTING BY DEPARTMENT FOLLOWS...**

#### BIOLOGICAL SCIENCES

BIOL\_SCI 105-6 - 20 (37392)

**Freshman Seminar: Genetically Modified Foods**

MoWe 2:00PM - 3:20PM	Technological Institute MG28	Christina Russin
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This topic has become a lightning rod in recent years for biotechnologists and environmentalists alike. In this course, we will explore what it means to genetically engineer food crops and discuss the benefits and drawbacks of this technology. Our topics will include specific examples of engineered crops such as golden rice, StarLink corn, and Terminator seeds, as well as an exploration of individual opinion on labeling laws and the risks associated with this technology.

## CHEMISTRY

CHEM 105-6 – 30 (37661)

### **Freshman Seminar: Time Travel and Other Paradoxes**

TuTh 11:00AM - 12:20PM	Technological Institute L158	Elad Harel
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No class description available. Check CAESAR for updates.

CHEM 105-6 – 31 (37662)

### **Freshman Seminar: Drug Development and the Pharmaceutical Industry**

TuTh 11:00AM - 12:20PM	Elder Hall 032 Seminar Room	Larry Trzupsek
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No class description available. Check CAESAR for updates.

CHEM 105-6 – 32 (37663)

### **Freshman Seminar: Green Chicago**

TuTh 9:30AM - 10:50AM	Elder Hall 030 Seminar Room	Shelby Hatch
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What makes a city green? What is the role of the scientist-civilian? We will study (and visit) a number of green projects in and around Chicago including the green roof on City Hall. We will discuss how individual decisions intersect with public policy and corporate responsibility. We will ponder the question of what it means to be "green enough". The students will work on a green project in the community, culminating in oral and written presentations.

## CLASSICS

CLASSICS 110-0 – (33726)

### **A Study of Scientific Vocabulary Through Classical Roots**

TBA	TBA	Jeanne Ravid
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Independent Study format. There are only three class meetings, and all three are required (no exceptions): (1) introductory meeting on WED 3/28/12, 5:00-6:00pm (2) midterm on THURS, 4/26/12, 7:00-8:00pm, and (3) final exam on TUES, 6/5/12 7:00-9:00pm. Students are on their own to study and complete the exercises in the text/workbook, take non-credit practice quizzes available on Blackboard, and take the midterm and final exams as scheduled (no makeup exam for midterm; makeup exam for final with permission of the WCAS Advising Office only). Midterm exam covers the first eight of sixteen chapters in the text/workbook; final exam covers all sixteen chapters. Instructor is available to students during office hours or by appointment, by email or phone. Blackboard is used extensively for instruction and communication. Practice quizzes may be taken at any time for study or review purposes and may be self-graded or graded by the instructor. These do not count toward the final grade, but are valuable as a diagnostic tool and pacer for the student and serve as preparation for the midterm and final exams.

### COMMUNICATION STUDIES

COMM\_ST 351-0 (37686)

#### **Technology & Human Interaction**

TuTh 11:00AM - 12:20PM	Frances Searle Building 2370	Darren Gergle
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We are surrounded by technologies that support our everyday social interactions. Facebook and Twitter provide persistent services for exchanging personal information, ubiquitous computing environments permit the integration of computational artifacts into the everyday world, and new technologies enable people to collaborate on projects when they are thousands of miles apart. The design of such systems, however, is not simply a technical question. In order to successfully create these systems, we need to understand how people work, play, and communicate with one another in a wide variety of situations. This course illustrates the practice of understanding human interactions that take place both with and through technology; and it explores the design, creation and evaluation of technologies to support such interactions. Course topics include: design processes, prototype construction and evaluation techniques. Specialized topics cover social computing technologies, social software and collaborative systems, and entertainment technologies. No programming experience is necessary. There will be occasional labs to explain technical content. Course requirements include short hands-on exercises, two exams, and a group project.

COMM\_ST 394-0 – 21 (35261)

#### **Communication Studies Research Seminar: Technology and Relationships**

We 2:00PM - 4:50PM	Frances Searle Building 2378	Lauren Scissors
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No class description available. Check CAESAR for updates.

**ECONOMICS**

ECON 307-0 - 20 (33117)

**Economics of Medical Care**

MoWeFr 9:30AM - 10:50AM	University Hall 122	Burton Allen Weisbrod
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No class description available. Check CAESAR for updates.

ECON 318-0 - 20 (33119)

**History of Economic Thought**

TuTh 11:00AM - 12:20PM	Frances Searle Building 1421	Laura Kiesling
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No class description available. Check CAESAR for updates.

ECON 323-1 - 20 (33320)

**Economic History of the United States Before 1865**

MoWe 6:30PM - 7:50PM	Frances Searle Building 2407	Benjamin Chabot
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No class description available. Check CAESAR for updates.

**ENGLISH**

ENGLISH 338-0 – 20 (37637)

**Studies in Renaissance Literature: Magic, Science, and Religion**

TuTh 12:30PM - 1:50PM	Annenberg Hall 101	Glenn Sucich
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During the Early Modern period in Europe, scientific innovations challenged the received wisdom of the ancients, as well as the authority of the Bible itself, changing the way people imagined the physical world and their relation to the universe. This course will explore the ways in which the leading intellectuals of the Renaissance and Early Modern period responded to these changes in their poetry and prose. In particular, we will examine how writers of the age wrestled with the profound challenges that the "Scientific Revolution" posed to religion. How did philosophers such as Descartes and Hobbes explain the role of God in a universe they increasingly regarded as mechanistic? How did poets respond to the age's growing commitment to experimentation, empirical data, and reason as the most reliable guides to truth? Finally, how did radical innovations in science encourage equally radical innovations in politics, religion, and art?

**ENVIRONMENTAL POLICY AND CULTURE**

ENVR\_POL 390-0 – 20 (33130)

**Special Topics in Environmental Policy and Culture: Environmental Justice**

Mo 3:30PM - 6:20PM	Fisk Hall 114	Keith Harley
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The environmental justice movement came to national prominence twenty-five years ago with the publication of *Toxic Wastes and Race*, Charles Lee's groundbreaking exploration of the relationship between race, poverty and environmental protection in the United States. Subsequently, an entire new set of civil rights concerns have become part of federal, state and local environmental protection activities. This seminar will explore several aspects of the often complicated relationship between two defining progressive initiatives of our times - the civil rights and environmental movements. Students will engage the subject by exploring policy development, case studies, academic literature and practical applications of environmental justice principles in environmental protection. Students will produce and present a paper exploring an environmental justice topic of their own choosing.

ENVR\_POL 395-0 – 20 (33195)

\*\*CO-LISTED as POLI\_SCI 395-0 – 23 (31573)

**Special Topic Seminar: Global Climate Change: Policy & Society**

Tu 2:00PM - 4:50PM	University Hall 318	Yael Wolinsky
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The goal of this course is to examine global climate change both as a policy issue and as a phenomenon that has affected society and culture. We will compare climate change policy-making at the international, national, state, and local levels. We will examine several dimensions of climate change policies including reaction to scientific information, evaluation of costs versus benefits under uncertainty, leadership, and openness to adaptation. We will then look at how society has reacted to policy-making on climate change. We will compare trends in public attitudes on climate change and examine the relationship between public policy and civic action. We will also look at how the issue of climate change has spread beyond politics and is finding new expressions in the arts, architecture, and other realms of culture.

**GENDER STUDIES**

GNDR\_ST 321-0 – 20 (37708)

**Gender, Sexuality and History: Sexual Science and Subjective Politics**

MoWe 11:00AM - 12:20PM	Kresge Centennial Hall 4-310	Kirsten Leng
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Why and how has science assumed such a central role in defining secular `truths' about sex? Why and how have scientific `facts' become such compelling resources for

grounding and asserting a sense of sexual selfhood, and for expressing political demands on behalf of marginalized sexual subjects? In this seminar, we will explore the entangled twentieth century histories of sexual science, sexual subjectivities, and sexual politics, focusing in particular on how same-sex desire became the subject of medical scientific attention and, subsequently, definitive of individual identity. Our course will move chronologically through the late nineteenth to the early twentieth century, and will cover Europe and the United States. In addition to working with historical documents, we will engage theoretical approaches to analyze the relationship between scientific knowledge, subjectivity, and politics.

GNDR\_ST 332-0 – 20 (33047)

**Gender, Sexuality, and Health: Public Health and Its Discontents**

TuTh 2:00PM - 3:20PM	University Hall 312	Amy Partridge
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In this course we begin with an examination of two contemporary controversies in the United States (the "epidemic" of obesity and the debate over the HPV vaccine) in order to consider what constitutes a public health crisis in the context of broader transnational debates about health and "risk." We will consider the origins of "public health" as a concept and the institutions and practices that grew up around this concept in the 19th and 20th centuries, both in European and American cities and as part of colonial projects. We will also examine critiques (as well as strategic uses) of public health discourse from "below" by those groups who were targeted by these campaigns. We then turn to an examination of the futures of public health as we shift to a regime of biomedicalization and the production of an increasingly stratified global healthcare "market." The course will introduce key terms in the history of science and medicine--medicalization, biomedicalization, biopower, and biocapital--but will foreground the ways in which race, gender, and sexuality are central to conceptions of the "public health."

GNDR\_ST 374-0 – 20 (37710)

**Gender, Sexuality, and Digital Technologies: Cyberqueer**

TuTh 12:30PM - 1:50PM	Kresge Centennial Hall 2-359	Jillana Enteen
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Much recent fiction, film and theory are concerned with representing the Internet and technological development. While technology is frequently considered to be gender and race neutral, the ways in which it is depicted and deployed reflect the ideologies of developers and participants. This course will examine how virtual media is sexed, raced, and gendered in cultural discourses. Our analysis will center on the ways in which race and gender and sexuality are represented, imagined, stereotyped. Guiding questions will include the following: What are the dominant narratives about the Internet and computer based technologies? What and how are these assumptions deployed via the Internet? How have virtual technologies challenged experiences of language, gender, community and identity? This class includes lab work, electronic discussion, and internet participation through YouTube. In addition, there will be guest speakers/lab teachers. Note: our task is

to study cultural aspects of electronic communication, so no previous production or design experience is necessary.

**GLOBAL HEALTH**

GBL\_HLTH 301-0 – 20 (32360)

**Introduction to International Public Health**

Mo 6:00PM - 9:00PM	McGaw Daniel Hale Williams Aud	William Leonard
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No class description available. Check CAESAR for updates.

GBL\_HLTH 390-0 - 20 (37822)

**Special Topics in Global Health: Disability and Global Health**

Tu 2:00PM - 5:00PM	Fisk Hall 114	Staff
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No class description available. Check CAESAR for updates.

GBL\_HLTH 390-0 - 21 (37823)

**Special Topics in Global Health: Refugee/Immigrant Health**

Th 4:00PM - 7:00PM	Kresge Centennial Hall 4-345	Bechara Choucair
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No class description available. Check CAESAR for updates.

**HISTORY**

**\*\*\*SHC CORE COURSE**

HISTORY 275-1 – 01 (37630)

**History of Western Science and Medicine: Origins in Early Moderns Europe**

MoWe 2:00PM - 3:20PM	Kresge Centennial Hall 4-435	Tania Munz
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This course examines the rise of modern scientific thought during the scientific revolution (from roughly 1500-1750). The period marks several fundamental shifts in the ways in which people investigated and understood the world, the heavens, and their relationship to the natural order. We'll examine how different areas of inquiry - such as, astronomy, medicine, and natural history - sought to understand the natural world and how its practitioners became increasingly eager to separate their knowledge from other belief systems, such as magic and superstition. We will also examine questions fundamental to the modern scientific pursuit, such as, what is the nature of the universe? What are the roles of theory, observation, argument, and experiment in scientific approaches to nature? Were science and religion really at odds with one another during

the early modern period or did they mutually reinforcing? What role did images and new ways of visualizing nature play in science? And how did the strange peoples and animals of the new world challenge fundamentally held beliefs of the old? Readings will include primary texts by Copernicus, Galileo, Descartes, Kepler, Newton, and Harvey as well as a selection of secondary sources.

HISTORY 322-2 – 01 (37572)

**Development of the Modern American City, 1870-present**

MoWeFr 9:00AM - 9:50AM	Swift Hall 107	Henry Claxton Binford
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This is the second half of a two-quarter course dealing with urbanization and urban communities in America from the period of first European settlement to the present. The second quarter deals with the period from 1870 onward. Topics include the role of cities in the formation of an industrial society, the influence of immigration and rural-urban migration, political machines, professional planning, the automobile, electronic media, and the expansion of the federal role in city government.

HISTORY 392-0 (32812)

\*\*Co-listed as HISTORY 395-0 (32110)

**Topics in History: History and Politics of Natural Resources in the 20<sup>th</sup> Century**

Mo 3:00PM - 5:50PM	University Hall 118	Alice Weinreb
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This seminar is intended to follow up on my lecture courses on "Food, Hunger and Power," but is open to all students who are interested. It is recommended that all students have some background in modern history and/or in environmental history. We will examine the history of the twentieth century through analyzing tensions and conflicts over natural resources. At a time when we are increasingly aware of the limited resources available to us, this course will offer historical context for the changing ways in which people in the modern world have dealt with and been affected by such limited resources. This course will begin with a general introduction to environmental history. We will then analyze in detail several case studies organized around the core issues of land, food, and energy.

**INITIATIVE FOR SUSTAINABILITY AND ENERGY AT NORTHWESTERN**

ISEN 230-0-20 (33038 & 34745)

\*\*CO-LISTED as PHIL 270-0 – 20 (33857)

**Climate Change and Sustainability: Political and Ethical Dimensions**

TuTh 3:30PM - 4:50PM	Harris Hall 107	Bradley Sageman, Laura Kiesling, Mark Sheldon
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This course will present an interdisciplinary analysis of the politics and ethics underlying a sustainable approach to climate change; it includes introduction of the scientific evidence for anthropogenic global warming, discussion of the political economy and regulatory landscape of sustainability in relation to the climate, and exploration of the ethics of resource use, conservation practices, and environmentalism.

**PHILOSOPHY**

PHIL 270-0 – 20 (33857)

\*\*CO-LISTED as ISEN 230-0-20 (33038 & 34745)

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**POLITICAL SCIENCE**

POLI\_SCI 395-0 – 23 (31573)

\*\*CO-LISTED as ENVR\_POL 395-0 – 20 (33195)

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**PSYCHOLOGY**

PSYCH 340-0 – 20 (37860)

**Psychology and Law**

TuTh 11:00AM - 12:20PM	Swift Hall 210	Sara Broaders
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This course will examine the complex issues involved in applying the science of psychology to the field of law. Among the topics we will cover are: What aspects of the current legal system could be better informed by the results of psychological research? What is forensic assessment, and how/when is it used? How is competence determined? What is the role of expert testimony in the legal process? Is psychological profiling a useful method? How are interrogations of suspects conducted, and are there risks inherent in the procedures commonly used? What factors affect juries' perceptions and decisions? How reliable are eyewitnesses? What is the place of recovered memories in the legal system? Should juveniles be treated differently than adults by the legal system?

**SOCIOLOGY**

SOCIOLOG 376-0 – 20 (31422)

**Topics in Sociological Analysis: Global Health and Transnational Social Movements**

TuTh 9:30AM - 10:50AM	Annenberg Hall G15	Thomas Waidzunus
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This course examines relationships between global health issues and transnational social movements, non-governmental organizations (NGOs), and other groups seeking to further democratize efforts to address global health problems. We will examine ways that movements interact with international and state institutions, organizing across national borders to galvanize resources and often challenging authorities and elites. Investigation into theory and case studies will illuminate how certain social conditions enable or constrain the development of these networks, and how organizing across different local contexts can present specific challenges. We will also take into account criticisms of transnational health movements, especially regarding questions about the ways in which resources become allocated and distributed. The course will begin with an examination of organizations such as "Partners in Health" that seek to establish the delivery of medical care in developing nations, and will then turn to a focus on theorizing transnational social movements in relation to global health challenges. The latter portion of the class will be devoted to additional case studies including the international women's health movement and global AIDS treatment activism.